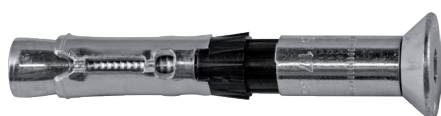


Heavy-duty anchor

SLA

Advantages



SLA C with countersunk head



SLA S with hex-head screw



SLA B with bolt and hexagon nut

- Torque controlled heavy-duty anchor, designed for heaviest loads
- Available with various heads
- The integrated plastic ring prevents twisting of the anchor and allows to overcome gaps between the attached part and the concrete surface
- Anchorage depth marking for quick installation

Suitable building materials

Very suitable



- Concrete



SLA C, zinc plated with countersunk screw; steel quality 8.8

Type	Art-No	d_0 [mm]	$h_1 \geq$ [mm]	$h_{ef} \geq$ [mm]	L_a [mm]	$t_{fix} \leq$ [mm]	Thread		€/ 100 pcs	[pcs]	[pcs]
C 12x80/16	91280SLAC	12	85	59	80	16	M8	●		30	150
C 12x90/26	91290SLAC	12	85	59	90	26	M8	●		30	150
C 12x120/56	912120SLAC	12	85	59	120	56	M8	●		25	125
C 15x90/17	91590SLAC	15	95	67	90	17	M10	●		20	100
C 15x100/27	915100SLAC	15	95	67	100	27	M10	●		15	75



Approvals and certificates



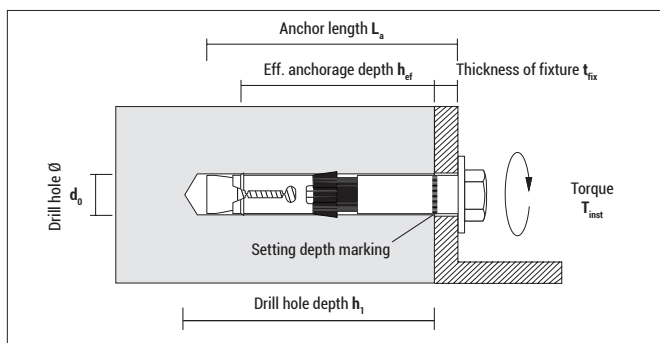
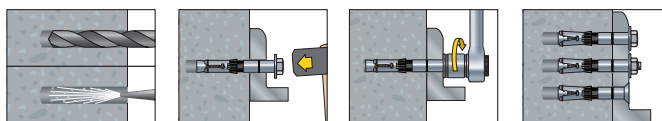
European Technical Assessment
Option 1 for cracked concrete



see assessment



Mounting



Heavy-duty anchor SLA



SLA S, zinc plated with hex-head screw; steel quality 8.8

Type	Art-No	d ₀ [mm]	h ₁ ≥ [mm]	h _{ef} ≥ [mm]	L _a [mm]	t _{fix} ≤ [mm]	Thread	ETA	€/ 100 pcs	[pcs]	[pcs]
S 12x80/10	91280SLAS	12	85	59	80	10	M8	●		30	150
S 12x90/20	91290SLAS	12	85	59	90	20	M8	●		30	150
S 12x120/50	912120SLAS	12	85	59	120	50	M8	●		25	125
S 15x90/10	91590SLAS	15	95	67	90	10	M10	●		20	100
S 15x100/20	915100SLAS	15	95	67	100	20	M10	●		15	75
S 15x130/50	915130SLAS	15	95	67	130	50	M10	●		15	75
S 18x110/10	918110SLAS	18	115	88	110	10	M12	●		10	50
S 18x125/25	918125SLAS	18	115	88	125	25	M12	●		10	50
S 18x150/50	918150SLAS	18	115	88	150	50	M12	●		5	25
S 24x125/10	924125SLAS	24	130	99	125	10	M16	●		5	25
S 24x140/25	924140SLAS	24	130	99	140	25	M16	●		5	25
S 24x165/50	924165SLAS	24	130	99	165	50	M16	●		4	20



SLA B, zinc plated with bolt and hexagon nut; steel quality 8.8

Type	Art-No	d ₀ [mm]	h ₁ ≥ [mm]	h _{ef} ≥ [mm]	L _a [mm]	t _{fix} ≤ [mm]	Thread	ETA	€/ 100 pcs	[pcs]	[pcs]
B 12x80/10	91280SLAB	12	85	59	80	10	M8	●		30	150
B 12x90/20	91290SLAB	12	85	59	90	20	M8	●		30	150
B 12x120/50	912120SLAB	12	85	59	120	50	M8	●		25	125
B 15x90/10	91590SLAB	15	95	67	90	10	M10	●		20	100
B 15x100/20	915100SLAB	15	95	67	100	20	M10	●		15	75
B 15x130/50	915130SLAB	15	95	67	130	50	M10	●		15	75
B 15x180/100	915180SLAB	15	115	67	180	100	M10	●		10	50
B 18x110/10	918110SLAB	18	115	88	110	10	M12	●		10	50
B 18x125/25	918125SLAB	18	115	88	125	25	M12	●		10	50
B 18x200/100	918200SLAB	18	115	88	200	100	M12	●		5	25
B 24x125/10	924125SLAB	24	130	99	125	10	M16	●		5	25
B 24x140/25	924140SLAB	24	130	99	140	25	M16	●		5	25
B 24x165/50	924165SLAB	24	130	99	165	50	M16	●		4	20
B 24x215/100	924215SLAB	24	130	99	215	100	M16	●		4	–

Installation parameters

SLA S/B/C Size		M8	M10	M12	M16
Torque	T _{inst} [Nm]	20	45	80	150
SLA S/B width across flats	SW [mm]	13	17	19	24
SLA C internal hexagon	[mm]	6	8	–	–
Ø of clearance hole in fixture	d _f [mm]	14	17	20	26

Loads, spacing and edge distance

Type	Size	Cracked concrete ^{1),2)} C20/25		Non-cracked concrete ^{1),2)} C20/25		Permissible bending moment	Spacing		Edge distance		Min. thickness of structural part
		Tension N _{per} [kN]	Shear V _{per} [kN]	Tension N _{per} [kN]	Shear V _{per} [kN]	M _{per} [Nm]	S _{cr} [mm]	S _{min} [mm]	C _{cr} [mm]	C _{min} [mm]	h _{min} [mm]
SLA 12	M8	5,7	7,8	10,9	10,9	17	177	60	89	60	120
SLA 15	M10	7,6	18,8	13,2	24,0	34	201	70	101	70	140
SLA 18	M12	11,9	28,3	19,8	28,6	60	264	80	132	80	180
SLA 24	M16	16,9	33,8	23,6	47,4	152	297	100	149	100	200

¹⁾ Permissible loads for single anchor without influence of spacing and edge distance.

²⁾ Load values include the resistances' partial safety factors as per ETA assessment and a partial safety factor on the action of γ_F = 1,4.

For higher concrete strengths the values increase N_{per} by max 55 % (N_{per, C50/60} = 1,55 x N_{per, C20/25})

If underrun the char. spacing or edge distance (C_{cr} or S_{cr}) the loads must be reduced. h_{min}, S_{min} and C_{min} must be observed.