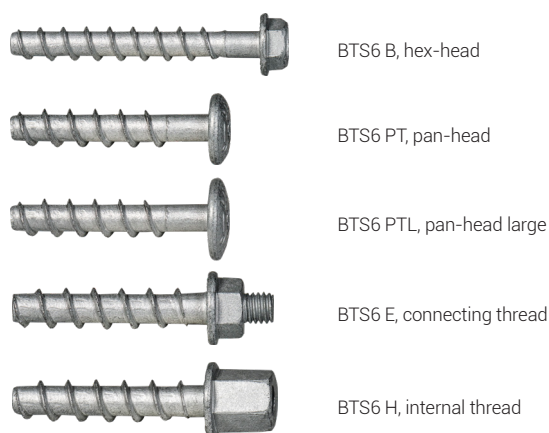


Concrete screw BTS6

Advantages



- Very fast method for fixing rails, clamps, threaded rods aso.
- Also approved for fixing in precast pre-stressed hollow core slabs
- Easy system with a special accessory: Assembling in just two steps; drilling and fixing with the same tool
- Different heads for various applications
- Two setting depths for a higher application flexibility
- Short lengths, this means less risk of hitting rebars



Approvals and certificates



Suitable building materials

Very suitable



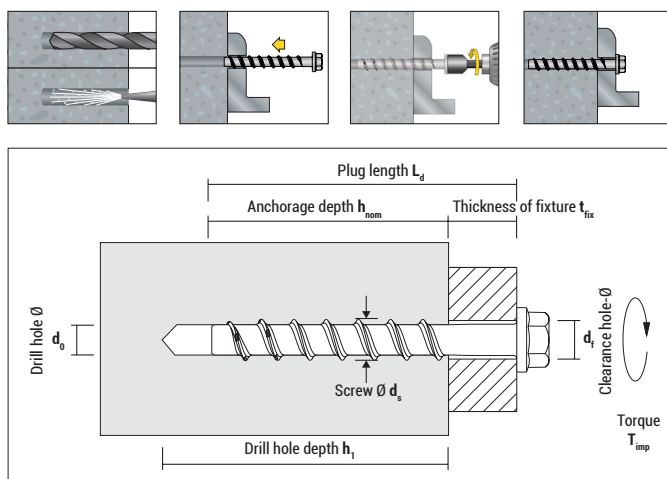
- Concrete
- Precast pre-stressed hollow core slabs



Suitable to a limited extent

- Dense natural stone

Mounting



Concrete screw BTS6



BTS6 B, zinc flake coating with hex-head with integral washer, washer-Ø: 14,0 mm, zinc flake coating

Type $d_0 - L_d$	Art-No	$d_s \times L_d$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	Recess		€ / 100 pcs	 [pcs]	 [pcs]
6-40/5	9ZG640BTSB	7,5 x 40	40	35	5	SW10	●		150	750
6-55/5	9ZG655BTSB	7,5 x 55	40 / 55	35 / 50	20 / 5	SW10	●		100	500



BTS6 PT, zinc flake coating with pan-head (TX 30), head-Ø: 14,5 mm

Type $d_0 - L_d$	Art-No	$d_s \times L_d$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	Drive		€ / 100 pcs	 [pcs]	 [pcs]
6-40/5	9ZG640BTSPT	7,5 x 40	40	35	5	TX30	●		150	750
6-55/5	9ZG655BTSPT	7,5 x 55	40 / 55	35 / 50	20 / 5	TX30	●		100	500



BTS6 PTL, zinc flake coating with pan-head large (TX 30), head-Ø: 19 mm

Type $d_0 - L_d$	Art-No	$d_s \times L_d$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	Drive		€ / 100 pcs	 [pcs]	 [pcs]
6-40/5	9ZG640BTSPTL	7,5 x 40	40	35	5	TX30	●		150	750
6-55/5	9ZG655BTSPTL	7,5 x 55	40 / 55	35 / 50	20 / 5	TX30	●		100	500



BTS6 E, zinc flake coating with connecting thread, washer-Ø: 14,0 mm

Type $d_0 - L_d$	Art-No	$d_s \times L_d$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	Connecting thread	Recess		€ / 100 pcs	 [pcs]	 [pcs]
6-35	9ZG635M6BTSE	7,5 x 35	40	35	–	M6 (L = 5 mm)	SW10	●		150	750
6-135	9ZG6135M6BTSE	7,5 x 135	40 / 55	35 / 50	85 / 100	M6 (L = 5 mm)	SW10			50	250
6-155	9ZG6155M6BTSE	7,5 x 155	40 / 55	35 / 50	105 / 120	M6 (L = 5 mm)	SW10			50	250
6-175	9ZG6175M6BTSE	7,5 x 175	40 / 55	35 / 50	125 / 140	M6 (L = 5 mm)	SW10			50	250
6-195	9ZG6195M6BTSE	7,5 x 195	40 / 55	35 / 50	145 / 160	M6 (L = 5 mm)	SW10			50	200
6-35	9ZG635M8BTSE	7,5 x 35	40	35	–	M8 (L = 15 mm)	SW10	●		100	500



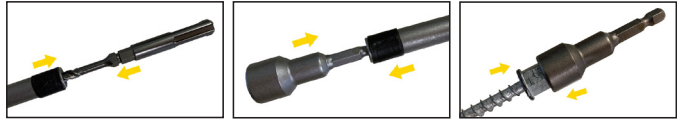
BTS6 H, zinc flake coating with internal thread, washer-Ø: M6 and M8: 14,0 mm; M10: 17,0 mm

Type $d_0 - L_d$	Art-No	$d_s \times L_d$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	Internal thread	Recess		€ / 100 pcs	 [pcs]	 [pcs]
6-35	9ZG635M6BTSH	7,5 x 35	40	35	M6 (L = 10 mm)	SW10	●		150	750
6-35	9ZG635M8BTSH	7,5 x 35	40	35	M8 (L = 15 mm)	SW10	●		100	500
6-50	9ZG650M8BTSH	7,5 x 50	55	50	M8 (L = 15 mm)	SW10	●		100	500
6-35	9ZG635M10BTSH	7,5 x 35	40	35	M10 (L = 15 mm)	SW13	●		100	500

Concrete screw **BTS6**

Accessories

Concrete screw **BTS6**



SDS special drill bit Ø6 mm
Usable drill length 105 mm



Special adapter
Put over the drill bit and the socket wrench



Socket wrench
for quick mounting of
all BTS6 with hex-head

Accessories for concrete screw **BTS6**

Type	Art-No	d ₀ [mm]	L [mm]	Recess	€/1 pc	[pc]	[pcs]
Special drill bit SDS 6 mm	6115SDSBTS6	6	175	SDS plus		1	—
Special adapter	9ATRBCA	13	145	2x hex-head		1	—
Socket wrench 10 (SW10)	910LLTRBCA	18	65	hexagon		1	—
Socket wrench 13 (SW13)	913M8LLTRB	20	65	hexagon		1	—

Loads, spacing and edge distance for multiple use for non-structural applications in **cracked concrete** C20/25-C50/60

Type	Permissible load in any direction ^{1),2)}		Permissible bending moment ²⁾	Spacing		Edge distance		Min. thickness of structural part h _{min} [mm]	Max. torque of the impact wrench T _{imp} [Nm]
	h _{nom} 35 mm F _{per} [kN]	h _{nom} 50 mm F _{per} [kN]		S _{cr} [mm]	S _{min} [mm]	C _{cr} [mm]	C _{min} [mm]		
BTS 6-35	0,85	—	5,7	160	40	80	40	100	150
BTS 6-40	0,85	—	5,7	160	40	80	40	100	150
BTS 6-50	0,85	1,90	5,7	160	40	80	40	100	150
BTS 6-55	0,85	1,90	5,7	160	40	80	40	100	150

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

²⁾ Load figures include the resistances' partial safety factors as per ETA assessment and a partial safety factor on the action of $\gamma_F = 1,4$

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.

Loads, spacing and edge distance for multiple use for non-structural applications in **precast pre-stressed hollow core slabs** C45/55

Type	Permissible load in any direction ^{1),2)}	Permissible bending moment ²⁾	Spacing		Edge distance	
	h _{nom} 35 mm F _{per} [kN]		S _{cr} [mm]	S _{min} [mm]	C _{cr} [mm]	C _{min} [mm]
BTS 6	1,02	5,7	200	200	150	150

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

²⁾ Load figures include the resistances' partial safety factors as per ETA assessment and a partial safety factor on the action of $\gamma_F = 1,4$

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.

Loads, spacing and edge distance for multiple use for non-structural applications in **precast pre-stressed hollow core slabs**:

w/e ≤ 4,2 / Concrete ≥ C45/55 / thickness of bottom flange ≥ 35 mm