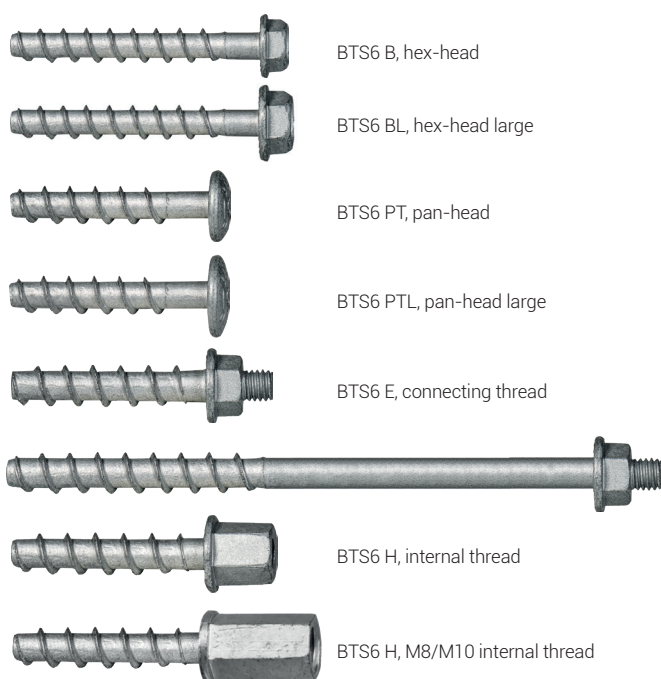


Concrete screw BTS6

Advantages



BTS6 B, hex-head

BTS6 BL, hex-head large

BTS6 PT, pan-head

BTS6 PTL, pan-head large

BTS6 E, connecting thread

BTS6 E long, connecting thread

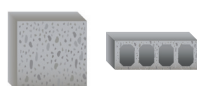
BTS6 H, internal thread

BTS6 H, M8/M10 internal thread

- 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

Suitable building materials

Very suitable



- Concrete
- Precast pre-stressed hollow core slabs



Suitable to a limited extent

- Dense natural stone



Approvals and certificates



For multiple use for non-structural applications in cracked concrete



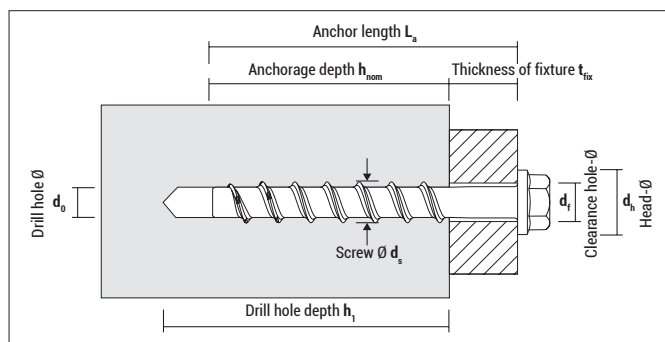
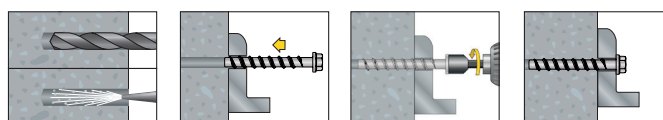
see assessment



M8, M10



Mounting



**BTS6 B, zinc flake coating** with hex-head with integral washer, washer-Ø SW10: 14,0 mm

Type $d_0 \times L_a / t_{fix}$	Art-No	$d_{s \times L_a}$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	d_f [mm]	$t_{fix} \leq$ [mm]	Recess		€/ 100 pcs	 [pcs]	 [pcs]
6x40/5	9ZG640BTSB	7,5 x 40	40	35	8 - 9	5	SW10	●		150	750
6x55/5	9ZG655BTSB	7,5 x 55	40 / 55	35 / 50	8 - 9	20 / 5	SW10	●		100	500

**BTS6 BL, zinc flake coating** with hex-head with integral washer, washer-Ø SW13: 19 mm

Type $d_0 \times L_a / t_{fix}$	Art-No	$d_{s \times L_a}$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	d_f [mm]	$t_{fix} \leq$ [mm]	Recess		€/ 100 pcs	 [pcs]	 [pcs]
6x40/5	9ZG640BTSBL	7,5 x 40	40	35	8 - 9	5	SW13	●		100	500
6x60/10	9ZG660BTSBL	7,5 x 60	40 / 55	35 / 50	8 - 9	25 / 10	SW13	●		100	500
6x80/30	9ZG680BTSBL	7,5 x 80	40 / 55	35 / 50	8 - 9	45 / 30	SW13	●		50	250
6x100/50	9ZG6100BTSBL	7,5 x 100	40 / 55	35 / 50	8 - 9	65 / 50	SW13	●		50	250

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

Type $d_0 \times L_a / t_{fix}$	Art-No	$d_{s \times L_a}$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	d_f [mm]	$t_{fix} \leq$ [mm]	Drive		€/ 100 pcs	 [pcs]	 [pcs]
6x40/5	9ZG640BTSPT	7,5 x 40	40	35	8 - 9	5	TX30	●		150	750
6x55/5	9ZG655BTSPT	7,5 x 55	40 / 55	35 / 50	8 - 9	20 / 5	TX30	●		100	500

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

Type $d_0 \times L_a / t_{fix}$	Art-No	$d_{s \times L_a}$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	d_f [mm]	$t_{fix} \leq$ [mm]	Drive		€/ 100 pcs	 [pcs]	 [pcs]
6x40/5	9ZG640BTSPTL	7,5 x 40	40	35	8 - 9	5	TX30	●		150	750
6x55/5	9ZG655BTSPTL	7,5 x 55	40 / 55	35 / 50	8 - 9	20 / 5	TX30	●		100	500

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

Type $d_0 \times L_a$	Art-No	$d_{s \times L_a}$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	Connecting thread	Recess		€/ 100 pcs	 [pcs]	 [pcs]
6x35	9ZG635M6BTSE	7,5 x 35	40	35	–	M6 (L = 6 mm)	SW10	●		150	750
6x35	9ZG635M8BTSE	7,5 x 35	40	35	–	M8 (L = 16 mm)	SW10	●		100	500

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

Type $d_0 \times L_a$	Art-No	$d_{s \times L_a}$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	$t_{fix} \leq$ [mm]	Connecting thread	Recess		€/ 100 pcs	 [pcs]	 [pcs]
6x135 M6	9ZG6135M6BTSE	7,5 x 135	40 / 55	35 / 50	100 / 85	M6 (L = 6 mm)	SW10	●		50	250
6x155 M6	9ZG6155M6BTSE	7,5 x 155	40 / 55	35 / 50	120 / 105	M6 (L = 6 mm)	SW10	●		50	250
6x175 M6	9ZG6175M6BTSE	7,5 x 175	40 / 55	35 / 50	140 / 125	M6 (L = 6 mm)	SW10	●		50	250
6x195 M6	9ZG6195M6BTSE	7,5 x 195	40 / 55	35 / 50	160 / 145	M6 (L = 6 mm)	SW10	●		50	200
6x85 M8	9ZG685M8BTSE	7,5 x 85	40 / 55	35 / 50	50 / 35	M8 (L = 16 mm)	SW10	●		50	250
6x135 M8	9ZG6135M8BTSE	7,5 x 135	40 / 55	35 / 50	100 / 85	M8 (L = 16 mm)	SW10	●		50	250
6x155 M8	9ZG6155M8BTSE	7,5 x 155	40 / 55	35 / 50	120 / 105	M8 (L = 16 mm)	SW10	●		50	250
6x175 M8	9ZG6175M8BTSE	7,5 x 175	40 / 55	35 / 50	140 / 125	M8 (L = 16 mm)	SW10	●		50	200
6x195 M8	9ZG6195M8BTSE	7,5 x 195	40 / 55	35 / 50	160 / 145	M8 (L = 16 mm)	SW10	●		50	200

The setting tool for BTS6 is not compatible.


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

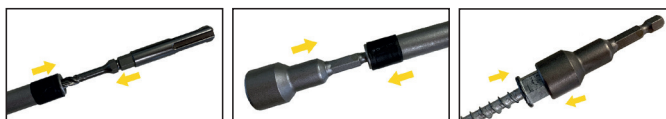
Type $d_0 \times L_a$	Art-No	$d_s \times L_a$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	Internal thread	Recess	ETA	€/100 pcs	[pcs]	[pcs]
6x35 M6	9ZG635M6BTSH	7,5 x 35	40	35	M6 (L = 10 mm)	SW10	●		150	750
6x35 M8	9ZG635M8BTSH	7,5 x 35	40	35	M8 (L = 15 mm)	SW10	●		100	500
6x50 M8	9ZG650M8BTSH	7,5 x 50	40 / 55	35 / 50	M8 (L = 15 mm)	SW10	●		100	500
6x35 M10	9ZG635M10BTSH	7,5 x 35	40	35	M10 (L = 15 mm)	SW13	●		100	500


BTS6 H M8/M10, zinc flake coating with internal thread, washer-Ø: 16,0 mm

Type $d_0 \times L_a$	Art-No	$d_s \times L_a$ [mm]	$h_1 \geq$ [mm]	$h_{nom} \geq$ [mm]	Internal thread	Recess	ETA	€/100 pcs	[pcs]	[pcs]
6x35 M8/M10	9ZG635M810BTSH	7,5 x 35	40	35	M8/M10 (L = 18 mm)	SW13	●		100	500
6x50 M8/M10	9ZG650M810BTSH	7,5 x 50	40 / 55	35 / 50	M8/M10 (L = 18 mm)	SW13	●		100	500

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	–

* Not compatible with BTS6E long.

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⁾ M_{per} [Nm]	Spacing		Edge distance		Min. thickness of structural part h_{min} [mm]	Max. torque of the impact wrench $T_{imp \leq}$ [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 6x35 BTS 6x40	0,85	–	5,7	160	40	80	40	100	150
BTS 6x50 BTS 6x55	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⁾ M_{per} [Nm]	Spacing		Edge distance	
	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	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**:

Concrete $\geq$ C45/55 / thickness of bottom flange $\geq$ 35 mm