Advantages

Concrete screw BTS6



ETA-approval for multiple use for non-structural applications in concrete



Approved for cracked and noncracked concrete suitable for a wide variety of fixing applications



precast concrete
hollow core slabs



Fire resistance report R120 fulfills fire protection requirements for more safety in case of fire



Different head designs
large number of
connection and
installations options



Low setting depth reduces installation effort and ensures less risk of hitting rebars



Fast assembly Drill, screw in - finished



Simple system with special accessories:

Drilling and fixing with the same power tool without changing tools



RemovableAlso very suitable for temporary fixings



Long concrete screw BTS6 E bridges insulated concrete



Two setting depths for a higher application flexibility (for BTS6 longer than 55 mm)



Zinc flake coating for improved corrosion resistance and higher application security



Expansion-free anchoring allows low edge distances and spacing



Internal thread (BTS6 H) & connection thread (BTS6 E) clamps or threaded rots can be attached directly to the concrete screw



The special geometry and hardness of the thread ensure reliable and secure screwing in into the concrete



Hex-head with integral washer No additional washer is required (time and cost saving)

CELO

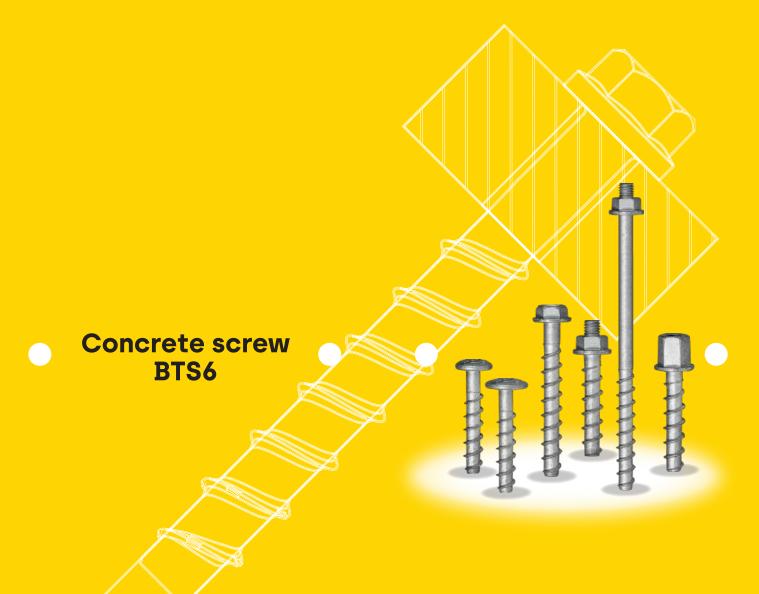
Small Things Matter

CELO Befestigungssysteme GmbH Industriestraße 6 D-86551 Aichach www.celofixings.com Hotline: +49 (0) 8251-90485-0 Telefax: +49 (0) 8251-90485-49 E-mail: info@celofixings.de

Presented by:

Technical products and illustrations are subject to change. The reprint of this brochure, in part or in whole, is prohibited. CELO Befestigungssysteme GmbH accepts no liability for the correctness of the information provided.



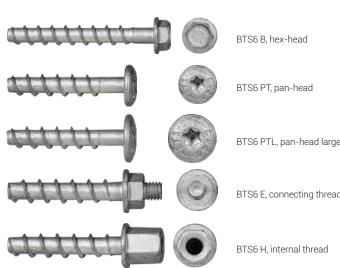




CELO

Concrete screw BTS6

Quick mounting to concrete





Suitable building materials

Very suitable



- Precast pre-stressed hollow core slabs

Suitable to a limited extent

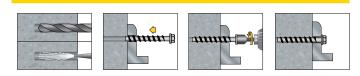


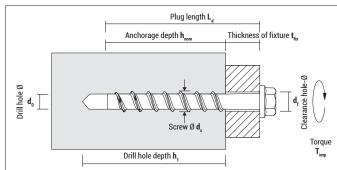
Dense natural stone

Approvals and certificates



Mounting





Assortment

Concrete screw BTS6



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

Type d _o - L _d	Art-No	d _{s x} L _d [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	t _{fix} ≤ [mm]	Recess	ETA.	[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 _o - L _d	Art-No	d _{s x} L _d [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	t _{fix} ≤ [mm]	Drive	ETA:	[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 _o - L _d	Art-No	d _{s x} L _d [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	t _{fix} ≤ [mm]	Drive	ETA.	[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	Art-No	d _{s x} L _d [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	t _{fix} ≤ [mm]	Connecting thread	Recess	ETA)	[pcs]	[pcs]
6-35	9ZG635M6BTSE	7,5 x 35	40	35	-	M6 (L = 5 mm)	SW10	•	150	750
6-35	9ZG635M8BTSE	7,5 x 35	40	35	-	M8 (L = 15 mm)	SW10	•	100	500



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

Type d _o - L _d	Art-No	d _{s x} L _d [mm]	h _i ≥ [mm]	h _{nom} ≥ [mm]	t _{fix} ≤ [mm]	Connecting thread	Recess	ETA.	[pcs]	[pcs]
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



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

Type	Art-No	d _{s x} L _d [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	Internal thread	Recess	ETA	[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

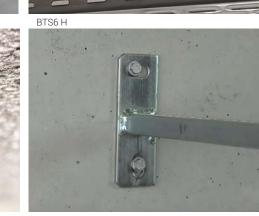












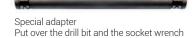
Accessories Concrete screw BTS6













Accessories for concrete screw BTS6

Туре	Art-No	d _o [mm]	L [mm]	Recess	[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

direction		Permissible load in any direction ^{1],2]}		Spo	Spacing		istance		Max. torque of the
Type	h _{nom} 35 mm	h _{nom} 50 mm	bending mo- ment ^{2]}	op s	•	_ago a		structural part	impact wrench
	F _{per} [kN]	F _{per} [kN]	M _{per} [Nm]	S _{cr} [mm]	S _{min} [mm]	C _{cr} [mm]	C _{min} [mm]	h _{min} [mm]	$T_{imp \leq}[Nm]$
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.

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

Ту	/pe	Permissible load in any direction ^{1],2]} h _{nom} 35 mm	Permissible bending moment ²⁾	Spo	ıcing	Edge distance		
		F _{per} [kN]	M _{per} [Nm]	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 γ_E = 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.

²⁾ Load figures include the resistances' partial safety factors as per ETA assessment and a partial safety factor on the action of $y_e = 1.4$ 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: $w/e \le 4.2$ / Concrete $\ge C45/55$ / thickness of bottom flange ≥ 35 mm