







Concrete screw BTS6

Wide range of installations - fast and direct





Product advantages - BTS6

 Concrete screw BTS6 with ETA approval for multiple use for non-structural applications in cracked and non-cracked concrete

The BTS6 is suitable for a wide variety of fixing applications due to the approval in cracked and non-cracked concrete.

- Also approved for fixing in precast concrete hollow core slabs.
- Fire resistance class R 120
 For even more safety in case of fire.
- Wide range of installations Thanks to different head designs and therefore a large number of connection options
- Low setting depth; variable Reduces installation effort. Higher loads with greater setting depth possible.

► Fast assembly

Drill, screw in - finished.

➤ Simple system with special accessories

Drilling and fixing with the same power tool without changing tools.

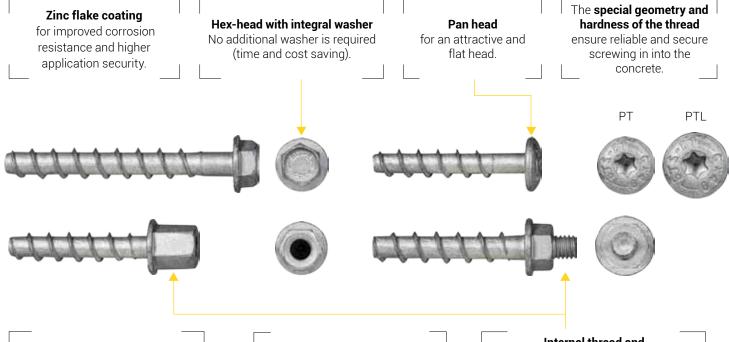
► Removable

Also very suitable for temporary fixings.

► Redundant fastening

i.e. if one anchor group is fastened, the load is transferred to the other fixing points if one anchor fails.

Redundant fastening									
Number of fixing points	Number of fixings per fixing points	Load per fixing point [KN]							
≥ 4	≥ 1	≤3							
≥3	≥1	≤ 2							



Expansion-free anchoring

allows low edge distances and spacing.

Various head designs

for flexible application areas.

Internal thread and connecting thread

No additional fixture is required, e.g. a clamp can be fixed directly to the concrete screw.

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Profile - BTS6

Suitable building materials







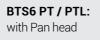


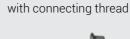
Category

Concrete screw for multiple use for non-structural applications in cracked and non-cracked concrete

Assortment







BTS6 E:

BTS6 H:

with internal thread





Sizes

Ø6, zinc flake coating

Approvals and certificates









Typical applications

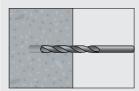


BTS6 in concrete (Metal construction)

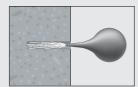
Suitable for through-mounting fixings such as:

- ► Sanitary installations
- Electrical installations
- ► Railings
- ► Mounting tracks
- ▶ Profiles
- ▶ Shelves
- ► Ventilation systems
- ▶ Clamps
- Hollow chamber ceilings

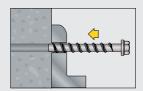
Mounting



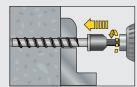
1. Drill hole



2. Clean hole



3. Push BTS6 through the fixture into the hole



4. Apply required setting







BTS6 B BTS6 PT BTS6 PT

Assortment — BTS6



BTS6 B with	Pac	king						
Type d _o - L	Art-No	d _s x L [mm]	h ₁ ≥ [mm]	h _{nom} ≥ [mm]	t _{fix} ≤ [mm]	Drive	[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 wi	ith Pan head (TX 3	Pac	king					
Type	Art-No	d _s xL	h₁ ≥	h _{nom} ≥	t _{fix} ≤	Recess	8	a
d _o - L		[mm]	[mm]	[mm]	[mm]		[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 w	BTS6 PTL with Pan head large (TX 30), head Ø: 19 mm, zinc flake coating								
Type	Art-No	d _s x L	h₁ ≥	h _{nom} ≥	t _{fix} ≤	Recess	8	6	
d ₀ - L		[mm]	[mm]	[mm]	[mm]		[pcs]	[pcs]	
6-40/5	9ZG640BTSPTL	7,5 x 40	40	35	5	TX30	150	750	
C EE/E	OZOGEEDTODTI	75755	40 / EE	25 / 50	20 / 5	TV20	100	FOO	





BTS6 E with	BTS6 E with connecting thread, washer Ø: 14,0 mm, zinc flake coating								
Type d _o - L	Art-No	d _s x L [mm]	h₁ ≥ [mm]	h _{nom} ≥ [mm]	Connecting thread	Drive	[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 H	with internal thread, v	Packing						
Туре	Art-No	d _s xL	h ₁ ≥	h _{nom} ≥	Internal	Drive	<i>3</i>	a
d _o - L		[mm]	[mm]	[mm]	thread		[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







BTS6 H BTS6 E BTS6 H



Accessories — BTS6



SDS special drill bit Ø6 mm Usable drill length 105 mm

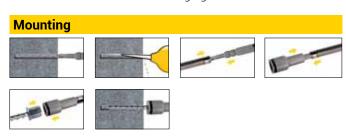


Special adapter

Put over the drill bit and the socket wrench

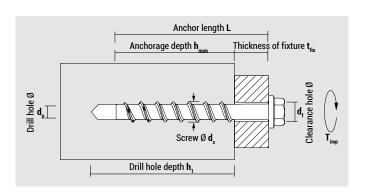


Socket wrench Suitable for all sizes BTS6 ▶ Quick installation without changing tools.



Accessories for concr	ete screw BTS6		Packing		
Type	Art-No	d _o	L	Recess	8
Турс		[mm]	[mm]		[pc]
Special drill bit SDS 6 mm	6115SDSTRBCA	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 and installation parameters - BTS 6



Loads, spacing and edge distance for multiple use for non-structural									
applications in precast concrete hollow core slabs C45/55									
Type Permissible load in any direction 11/21 Permissible bending homent 21 Permissible bending moment 21 Permissible bending spacing Edge distance									
F _{per} [kN]	M _{per} [Nm]	S _{cr} [mm]	S _{min} [mm]	C _{cr} [mm]	C _{min} [mm]				
1,02	5,7	200	200	150	150				
	es in precast o Permissible load in any direction ^{1),2)} h _{nom} 35 mm F _{per} [kN]	in precast concrete hollo Permissible load in any direction 1),2) h _{nom} 35 mm F _{per} [kN] M _{per} [Nm]	s in precast concrete hollow core slabs Permissible	s in precast concrete hollow core slabs C45/55 Permissible load in any direction 1).20 h_nom 35 mm F_per [kN] M_per [Nm] S_c [mm] S_min [mm]	s in precast concrete hollow core slabs C45/55 Permissible load in any direction 1).20 bending moment 20 bending moment 20 Fper [kN] Mper [Nm] S _{ar} [mm] S _{min} [mm] C _{ar} [mm]				

1) Permissible loads without influence of spacing and edge distance

 2 Load figures include the resistances' partial safety factors as per approval and a partial safety factor on the action of γ_{F} = 1.4

If underrun the char. space 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 non-structural applications in precast concrete hollow core slabs: w/e \leq 4,2 / concrete \geq C45/5T / thickness of bottom flange \geq 35 mm

Loads, sp	Loads, spacing and edge distance for multiple use for non-structural applications in cracked concrete C20/25-C50/60											
Type	Permissible load	l in any direction	Permissible bending	Spacing				Edge distance		Min. thickness Max. tor Edge distance of structural of the		Max. torque
	h _{nom} 35 mm	h _{nom} 50 mm	moment 2)					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} ≤ [Nm]	T _{inst max} [Nm]		
BTS 6-35	0,85	-	5,7	160	40	80	40	100	150	15		
BTS 6-40	0,85	-	5,7	160	40	80	40	100	150	15		
BTS 6-50	0,85	1,90	5,7	160	40	80	40	100	150	15		
BTS 6-55	0,85	1,90	5,7	160	40	80	40	100	150	15		

Dermissible loads without influence of spacing and edge distance Load figures include the resistances' partial safety factors as per approval and a partial safety factor on the action of $\gamma_F = 1.4$ If underrun the char. space or edge distance $(C_{cr} \text{ or } S_{cr})$ the loads must be reduced. h_{min} , S_{min} and C_{min} must be observed.



Made in Germany

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