



BTS6 B



BTS 6 PT



BTS6 PTL



BTS6 E

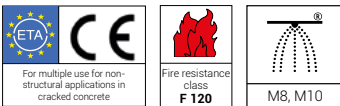


BTS6 H

## BENEFITS

- ETA approved (ETA 16-0848).
- Approved for cracked and non cracked concrete for redundant non-structural systems.
- Multi-application.
- You can install M6-M8 clamps, fix supports or channels, install threaded bars, ...
- Two embedment depths (35/50 mm).
- No expansion.
- Low edge distance and spacing between anchors.
- One piece anchor.
- Low install torque using nut setter that allow the installation of three references, screw, rod and nut.
- Removable.
- High resistance to vibrations.
- Immediate load. No need to wait.
- Allows the installation with drilling machine using the drill, the adapter and nut setter.
- Fire resistance homologated.
- Material: manufactured in hardened steel
- Coating: organic coating Zn-Al flakes > 240H in SST.

## APPROVALS



## BASE MATERIALS

- Concrete
- Solid brick
- Prefabricated hollow concrete slabs

## MAIN DIMENSIONS [mm]

Reference	Recess	Ø Head	Nut length
BTS6 B	SW10	14	-
BTS6 PT	TX30	14,5	-
BTS6 PTL	TX30	19	-
BTS6 E M6	SW10	14	5
BTS6 E M8	SW10	14	15
BTS6 H M6	SW10	14	10
BTS6 H M6	SW10	14	15
BTS6 H M10	SW13	17	15

## INSTALLATION TOOLS

With set adaptor



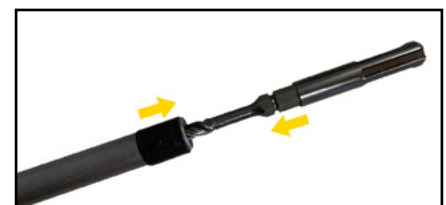
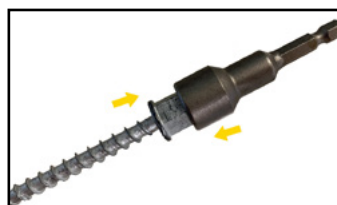
SDS Drill  $\varnothing$ 6 mm  
Ref.: 6115SDSBTS6



Nut setter  
Ref.: 910LLTRBCA

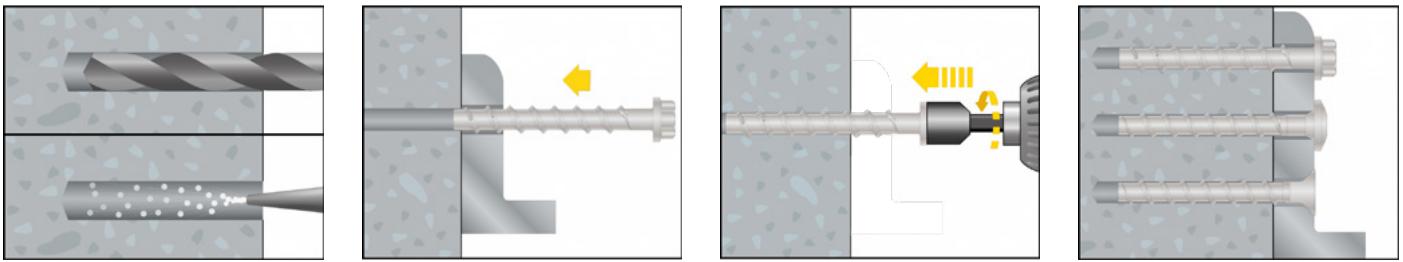


Adapter  
Ref.: 9ATRBCA



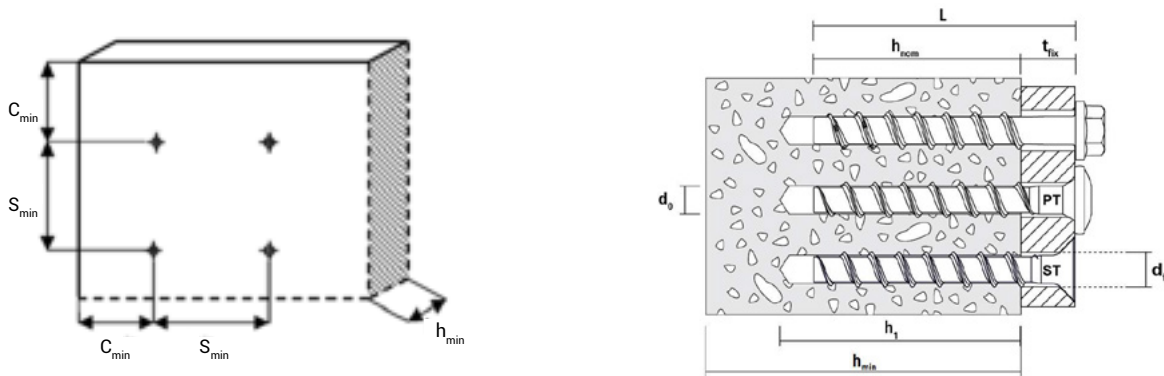
● ● ● **Small Things Matter** ● ●

## INSTALLATION PROCEDURE



Fast anchor in concrete, only three steps: drill, clean and thread.  
If you use a drilling machine, you need to use adaptor to thread the anchor.

## INSTALLATION PARAMETERS



Parameters	35 mm	50 mm
Hole diameter $d_0$	6	6
Embedment depth $h_{nom}$	35	50
Effective depth $h_{eff}$	26	39
Characteristic spacing between anchor $S_{gr}$ (mm)	160	160
Characteristic edge distance $C_{gr}$ (mm)	80	80
Minimum spacing between anchor $S_{min}$ (mm)	40	40
Minimum edge distance $C_{min}$ (mm)	40	40
Minimum concrete thickness $h_{min}$ (mm)	100	100
Max. installation torque $T_{imp}$ impact wrench (Nm)	150	150

## PERMISSIBLE LOADS

Permissible loads [kN] <sup>(1)(2)</sup>	35 mm	50 mm
Load in any direction C20/25	0,85	1,90
Load in any direction C5/60	1,23	2,38

(1) Allowable loads without influence of edge spacing and distance.

(2) The load figures include the partial safety factors of the resistors as per approval and a partial safety factor in action of  $YF = 1.4$ .

If the characteristic distances ( $C_{gr}$  or  $S_{gr}$ ) are not met, the loads must be reduced. The minimum distances ( $S_{min}$ ,  $C_{min}$ ) must always be observed.

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**LOADS, SPACING AND EDGE DISTANCE IN PREFABRICATED HOLLOW CONCRETE  $\geq$  C45/55**

	Allowable load in any direction <sup>(1)(2)</sup> $h_{nom} = 35 \text{ mm}$ $F_{per} \text{ [kN]}$	Bending moment permitted $M_{per} \text{ [Nm]}^2$	Distance between anchors		Distance to edges	
			$S_{cr} \text{ [mm]}$	$S_{min} \text{ [mm]}$	$C_{cr} \text{ [mm]}$	$C_{min} \text{ [mm]}$
BTS 6	1,02	5,7	200	200	150	150

(1) Allowable loads without influence of edge spacing and distance.

(2) The load figures include the partial safety factors of the resistors as per approval and a partial safety factor in action of  $YF = 1.4$ .

If the characteristic distances ( $C_{cr}$  or  $S_{cr}$ ) are not met, the loads must be reduced. The minimum distances ( $S_{min}$ ,  $C_{min}$ ) must always 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 / 55 //

Lower edge thickness  $\geq$  35 mm.

**FIRE RESISTANCES ACCORDING TO ETA APPROVAL/CE HOMOLOGATION**

BTS6	Fire resistance class			$H_{nom} \geq 50 \text{ mm}$
Characteristic resistance	R30	FRk, fi	[kN]	0,2
	R60	FRk, fi	[kN]	0,2
	R90	FRk, fi	[kN]	0,1
	R120	FRk, fi	[kN]	0,1

**Distances under fire exposure**

Spacing distance R30-R120	$S_{cr, fi}$	[mm]	160
Edge distance R30-R120	$C_{cr, fi}$	[mm]	80

The edge distance shall be  $\geq$  300mm, in case of fire attack from more than one side

**APPLICATIONS**

Fixing of rods, clamps, supports, profiles, ...

