

## TRUTEK TSC - RESIN W GLASS CAPSULES

### Usage:

- placing threaded and reinforcing bars in concrete, reinforced concrete and natural stone
- anchoring all types of building structures and supporting columns
- fastening road barriers and acoustic screens in road infrastructure
- anchoring in drill holes with diamond technique

### Advantages:

- heavy load transfer in non-cracked concrete
- highest resistance to dirt in the holes
- does not react with chemicals and water after curing
- no resin loss during anchoring
- the possibility of using the resin in wet holes drilled with the diamond technique
- wide range of TCS anchor rods range, galvanized steel, hot-dip galvanized steel and stainless steel



### Anchor rod material:

Threaded rods are made of ordinary carbon steel in mechanical properties class 5.8 and 8.8 are covered with a layer of galvanic zinc coating min. 5µm or refractory up to 45µm. Threaded rods made of stainless steel, A2 and A4 class

### Substrate material:

Non-cracked concrete, class C20 / 25 - C50 / 60

Curing times for resins in TSC capsules					
Substrate temperature °C	≥+30°C	≥+20°C	≥+5°C	≥+0°C	
Curing time in dry ground	min	10	20	60	300
Cure time in moist substrate	min	20	40	120	600

## TRUTEK TSC resin capsules and TCS threaded rods - steel class 5.8 in concrete

Resin / type of anchored rod	TSC / TCS threaded rod steel class 5.8					
	M8	M10	M12	M16	M20	M24
Design load-bearing capacity for pulling out of concrete NRd [kN]	8,0	12,0	16,0	24,0	36,0	48,0
Shear load capacity in concrete VRd [kN]	7,2	11,6	16,8	31,2	49,2	70,8
Hole / drill diameter up to [mm]	10	12	14	18	24	28
Hole depth h1 [mm]	80	90	110	125	170	210
Effective anchorage depth hef [mm]	80	90	110	125	170	210
Substrate thickness hmin [mm]	110	120	140	160	220	260
Spacing between anchors scr, N [mm]	240	270	330	375	510	630
Distance from the edge ccr, N [mm]	120	135	165	187,5	255	315
Minimum spacing between smin anchors [mm]	40	45	55	65	85	105
Minimum distance from the edge cmin [mm]	40	45	55	65	85	105
Required tightening torque Tinst [Nm]	10	20	40	80	120	180

Technical data of TRUTEK TSC capsules based on the strength of concrete C20 / 25 (according to PN-EN 206-1: 2003).

The entire technical approval ETA-06/0122 should be taken into account when designing

## Chemical anchor rods and accessories

Diameter rod d [mm]	Diameter bore d <sub>c</sub> [mm]	Minimal thickness ground h <sub>min</sub> [mm]	Hole depth h <sub>1</sub> [mm]	TCS Steel Anchor rod class 5.8 or 8.8*	TCS G anchor rod steel class 5.8 or 8.8* Hot dipped galvanised	TCS SS anchor rod stainless steel A2-304	TCS SSA4 anchor rod A4-316 stainless steel	Wire Hole cleaning brush TCB	Drills
8	10	110	80	TCS08110	TCS08110G	TCS08110SS*	TCS08110SSA4	TCB13	TCP10160
10	12	120	90	TCS10130	TCS10130G	TCS10130SS*	TCS10130SSA4	TCB13	TCP12160
12	14	140	110	TCS12160	TCS12160G	TCS12160SS*	TCS12160SSA4	TCB18	TCP14210
16	18	165	125	TCS16190	TCS16190G	TCS16190SS*	TCS16190SSA4	TCB18	TCP18310
20	24	220	170	TCS20260	TCS20260G	TCS20260SS*	TCS20260SSA4	TCB28	TCMU24340
24	28	310	210	TCS24300	TCS24300G	TCS24300SS*	TCS24300SSA4	TCB28	TCMU28340

