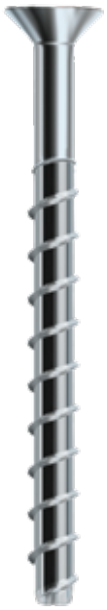
PRODUCT DATA SHEET

ROCK CONCRETE SCREW, COUNTERSUNK HEAD

PRODUCT DESCRIPTION

The rock concrete screw is a special screw for anchoring in concrete (normal concrete C20/25 to C50/60), for which a European Technical Assessment for anchorages in cracked and non-cracked concrete. The Rock concrete screw is screwed directly into the drill hole without anchors or other additional components. As it is screwed in, the thread cuts a counter-thread in the substrate. This type of installation is not only very simple, it also minimises the time required and maximises cost savings. The high-strength screw steel, an extremely complex hardening process and a special thread ensure that the rock concrete screw also works reliably in high-strength concrete of class C50/60.



ADVANTAGES / SPECIFICATIONS

- Installation without plugs I
- High extraction-resistance values
- No expansion effect, so smaller edge and centre distances are possible
- Broad range of applications thanks to a variety of screw heads and diameters
- An economical fastener

  → Time savings during installation

  → Cost savings in materials

- Time-saving and straightforward installation

  → Setting and installation process performed in a single step

CERTIFICATION

- European Technical Assessment ETA-15/0886

ETA CE
Europ. Techn. Bewertung
European Technical Assessment
ETA-15/0886

MATERIAL

- Galvanised steel

Notes

- Drill hole produced only by hammer drilling
- Setting parameters must be adhered to strictly
- Application only in C20/25 to C50/60 normal concrete

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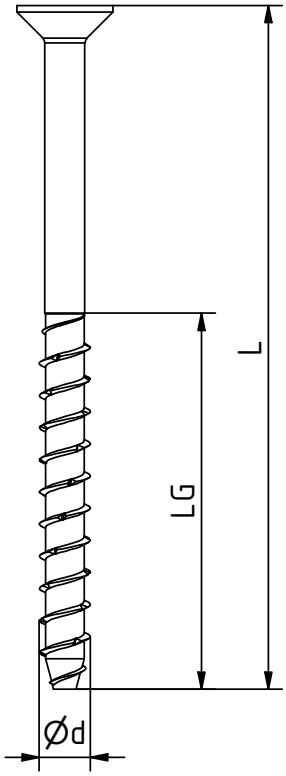
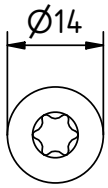
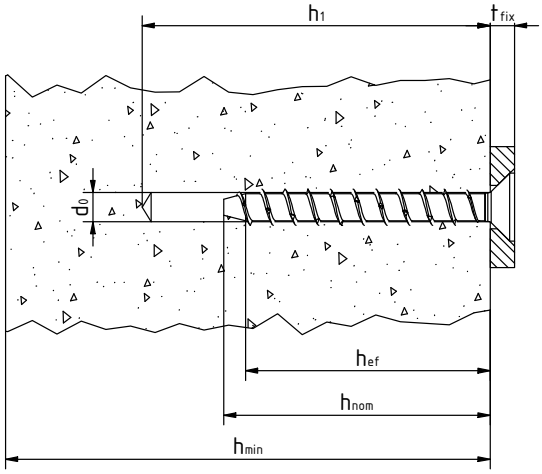
TECHNICAL INFORMATION

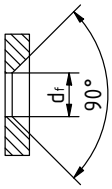


Side view



Top View





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ROCK CONCRETE SCREW, COUNTERSUNK HEAD

TECHNICAL INFORMATION

Rock concrete screw, countersunk head													
Art. no.	Dimension Ø x length	Ø Head	Minimum part thickness	Attachment thickness	Screwing depth	Characteristic load-bearing capacity values for tensile and shear load[a)]				Drill diameter	Depth of drill hole	Diameter of drill hole	min. Edge / centre distanze
						Tensile capacity	Tensile capacity	Shear load-boaring capacity	Bending moment				
	Ød1 x L [mm]	SW/dk [mm]	h_{min} [mm]	t_{fix} [mm]	h_{nom} [mm]	(noncracked concrete C20/25) $N_{Rk,p}$ [kN]	(cracked concrete C20/25) $N_{Rk,p}$ [kN]	(Steel) $V_{Rk,s}$ [b)] [kN]	(Steel) $M_{Rk,s}$ [b)] [Nm]	(Concrete) d_0 [mm]	h_1 [mm]	(Attachment) d_f [mm]	S_{min}/ C_{min} [mm]
110348*	7,5 x 40	14,0	100	3	55	6,0	3,0	11,0	19,0	6	70	9	40
110349	7,5 x 60			5									
110350	7,5 x 80			25									
110351	7,5 x 100			45									
110352	7,5 x 120			65									
110353	7,5 x 140			85									
110354	7,5 x 160			105									

Setting tool: Electric tangential impact wrench, max. power specification Tmax according to manufacturer's specification, recommended Tmax : 250 Nm for Rock 7.5 x L ; 450 Nm for Rock 10.5 x L. and 12.5 x L. and 16.5 L.

Note: A higher max. power of the setting tool can lead to destruction of the drill hole or damage to the screw.

Installation with torque spanner: Recommended installation torque Tinst: 20 Nm for Skirt 7.5 x L; 40 Nm for Skirt 10.5 x L. 60 Nm for Skirt 12.5 x L. and 120 Nm for 16.5 x L.

a) The design of a connection must be carried out in accordance with ETAG-001 Annex C. b) Partial safety factors: $\gamma_{Ms,V}$= 1.5; $\gamma_{Ms,M}$= 1.5.

Attention: These are planning aids. Projects may only be dimensioned by authorised persons.

*Screws not regulated according to ETA-15/0886

PRODUCT TABLE

Rock concrete screw, countersunk head			
Art. no.	Dimension [mm]	Drive	PU
110348*	7,5 x 40	TX 40 ●	100
110349	7,5 x 60	TX 40 ●	100
110350	7,5 x 80	TX 40 ●	100
110351	7,5 x 100	TX 40 ●	100
110352	7,5 x 120	TX 40 ●	100
110353	7,5 x 140	TX 40 ●	100
110354	7,5 x 160	TX 40 ●	100

*Screws not regulated according to ETA-15/0886

If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (Technik@eurotec.team).

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