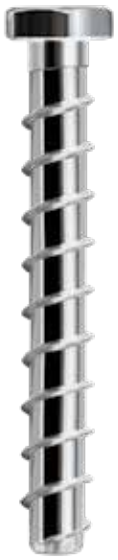
# PRODUCT DATA SHEET

# ROCK CONCRETE SCREW, HEXAGONAL



## PRODUCT DESCRIPTION

The rock concrete screw is the practical alternative to traditional plugs and a special screw for anchoring in concrete. The rock concrete screw is screwed directly into the drill hole without a plug or other additional components. As it is screwed in, the thread cuts a mating thread into the subsurface. This type of installation is not only very easy, but also impresses with is minimum assembly time and maximum cost savings. The high-strength screw steel, an extremely complex annealing process, and a special thread ensure that the rock concrete screw also works reliably in class C50/60 high-strength concrete.

## ADVANTAGES / SPECIFICATIONS

- Installation without plugs
- 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



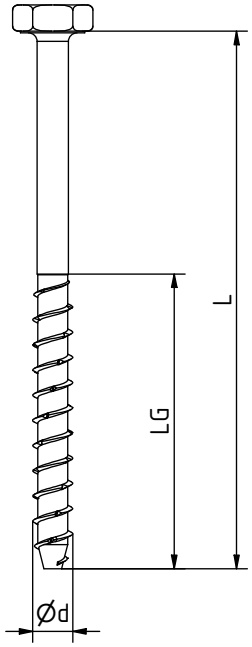


E.u.r.o.Tec GmbH • Unter dem Hofe 5 • D-58099 Hagen
Tel. +49 2331 62 45-0 • Fax +49 2331 62 45-200 • E-Mail info@eurotec.team

# PRODUCT DATA SHEET

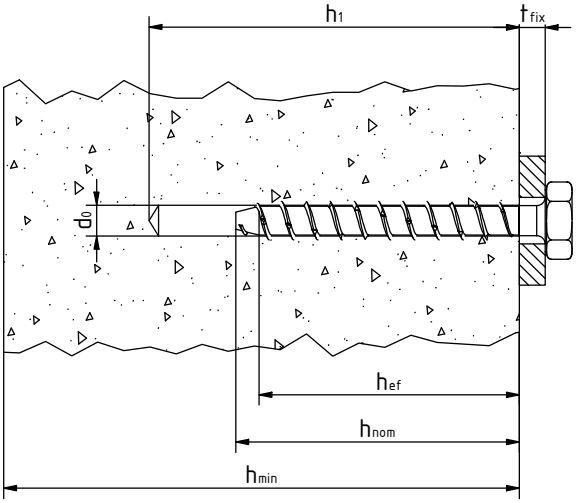
# ROCK CONCRETE SCREW, HEXAGONAL

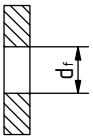
## TECHNICAL INFORMATION




Side view


Top view








E.u.r.o.Tec GmbH • Unter dem Hofe 5 • D-58099 Hagen
Tel. +49 2331 62 45-0 • Fax +49 2331 62 45-200 • E-Mail info@eurotec.team

# PRODUCT DATA SHEET

# ROCK CONCRETE SCREW, HEXAGONAL

## TECHNICAL INFORMATION

| Rock concrete screw, hexagonal | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 distance |
| | | | | | | 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] | (non-cracked 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] |
| 110338* | 7,5 x 40 | SW 13 | 100 | 1 | 35 | – | – | – | – | 6 | 70 | 9 | 40 |
| 110339* | 7,5 x 50 | | | 3 | | | | | | | | | |
| 110340 | 7,5 x 60 | | | 5 | 45 | – | – | – | – | | | | |
| 110341 | 7,5 x 80 | | | 25 | | | | | | | | | |
| 110342* | 10,5 x 60 | SW 15 | 160 | 3 | 55 | 6,0 | 3,0 | 22,0 | 51,0 | 9 | 90 | 12 | 55 |
| 110343 | 10,5 x 80 | | | 5 | | | | | | | | | |
| 110344 | 10,5 x 100 | | | 25 | | | | | | | | | |
| 110345 | 10,5 x 120 | | | 45 | | | | | | | | | |
| 110346 | 10,5 x 140 | | | 65 | | | | | | | | | |
| 110347 | 10,5 x 160 | | | 85 | | | | | | | | | |
| 110336* | 12,5 x 60 | SW 17 | 200 | 3 | 55 | – | – | – | – | 10 | 90 | 14 | 65 |
| 110337 | 12,5 x 80 | | | 5 | 75 | 25,0 | 12,0 | 35,0 | 98,0 | 10 | 90 | 14 | 65 |
| 110327 | 12,5 x 100 | SW 17 | 200 | 5 | 95 | 25,0 | 12,0 | 35,0 | 98,0 | 10 | 110 | 14 | 65 |
| 110328 | 12,5 x 120 | | | 25 | | | | | | | | | |
| 110329 | 12,5 x 140 | | | 45 | | | | | | | | | |
| 110330 | 12,5 x 160 | | | 65 | | | | | | | | | |
| 110331 | 12,5 x 180 | | | 85 | | | | | | | | | |
| 110332 | 12,5 x 200 | | | 105 | | | | | | | | | |
| 110333 | 12,5 x 240 | | | 145 | | | | | | | | | |
| 110334 | 12,5 x 280 | | | 185 | | | | | | | | | |
| 110335 | 12,5 x 320 | | | 225 | | | | | | | | | |

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: γMs,V= 1.5; γMs,M= 1.5.
Attention: These are planning aids. Projects may only be dimensioned by authorised persons.
*Screws not regulated according to ETA-15/0886





E.u.r.o.Tec GmbH • Unter dem Hofe 5 • D-58099 Hagen
Tel. +49 2331 62 45-0 • Fax +49 2331 62 45-200 • E-Mail info@eurotec.team

# PRODUCT DATA SHEET

# ROCK CONCRETE SCREW, HEXAGONAL

## PRODUCT TABLE

| Rock concrete screw, hexagonal | | | |
|---|---|---|---|
| Art. no. | Dimension [mm] | Drive | PU |
| 110338* | 7,5 x 40 | SW 13 | 100 |
| 110339* | 7,5 x 50 | SW 13 | 100 |
| 110340 | 7,5 x 60 | SW 13 | 100 |
| 110341 | 7,5 x 80 | SW 13 | 100 |
| 110342* | 10,5 x 60 | SW 15 | 100 |
| 110343 | 10,5 x 80 | SW 15 | 100 |
| 110344 | 10,5 x 100 | SW 15 | 100 |
| 110345 | 10,5 x 120 | SW 15 | 100 |
| 110346 | 10,5 x 140 | SW 15 | 100 |
| 110347 | 10,5 x 160 | SW 15 | 100 |
| 110336* | 12,5 x 60 | SW 17 | 100 |
| 110337 | 12,5 x 80 | SW 17 | 100 |
| 110327 | 12,5 x 100 | SW 17 | 100 |
| 110328 | 12,5 x 120 | SW 17 | 100 |
| 110329 | 12,5 x 140 | SW 17 | 100 |
| 110330 | 12,5 x 160 | SW 17 | 100 |
| 110331 | 12,5 x 180 | SW 17 | 100 |
| 110332 | 12,5 x 200 | SW 17 | 100 |
| 110333 | 12,5 x 240 | SW 17 | 100 |
| 110334 | 12,5 x 280 | SW 17 | 100 |
| 110335 | 12,5 x 320 | SW 17 | 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).





E.u.r.o.Tec GmbH • Unter dem Hofe 5 • D-58099 Hagen
Tel. +49 2331 62 45-0 • Fax +49 2331 62 45-200 • E-Mail info@eurotec.team