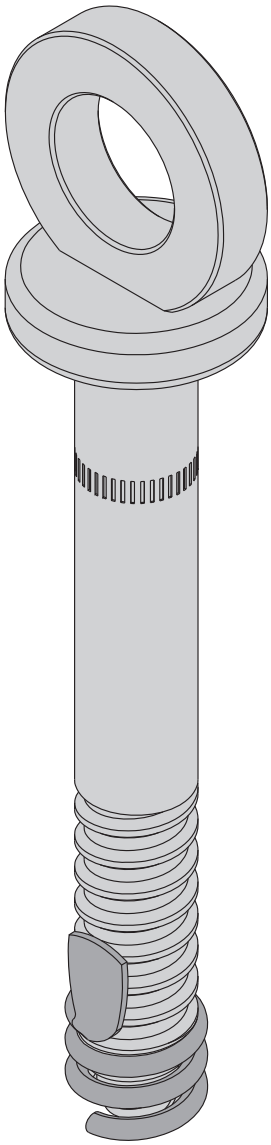
999432002 - 08/2018
en-GB

The Formwork Experts.

Doka Express anchor 16x125mm

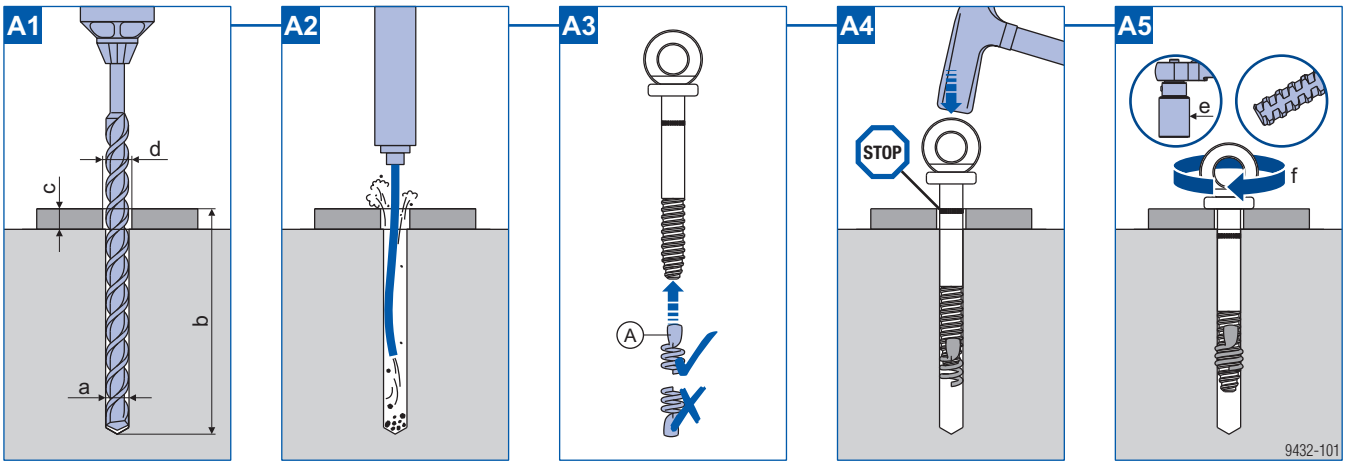
Art. n° 588631000

Fitting instructions



Installation and dismounting

Installation

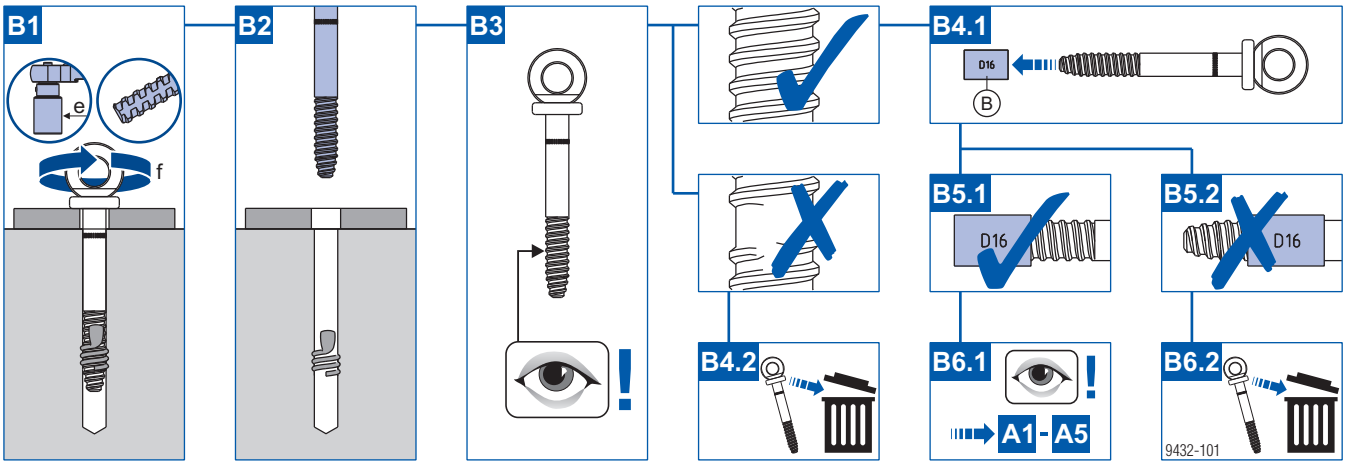


Animation: https://player.vimeo.com/video/281800669

WARNING

- Use Doka coils 16mm only with the Doka express anchor 16x125mm.
- Never use Doka coils 16mm on normal standard screws or anchors.
- Screw the Doka coil 16mm onto the Doka express anchor 16x125mm only in the direction indicated. Do not pre-spread.
- The express anchor may only be re-used after performing a check for wear with the **Gauge for Doka express anchor 16x125mm**, and provided that this check has been successfully passed.

Dismounting and check for reusability



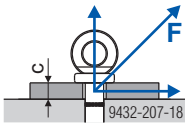
a ... Nominal drill diameter 16 mm
b ... Depth of drilled hole 135 mm (The depth of the drilled hole b can be reduced by dimension c.)
c ... Max. thickness of attached part 15 mm
d ... Diameter of hole drilled in the attached part 17-25 mm
e ... Width-across 36 mm
f ... Torque T_{min} 180 Nm

A Doka coil 16mm (art. n° 588633000)
Expendable part, can be used once only

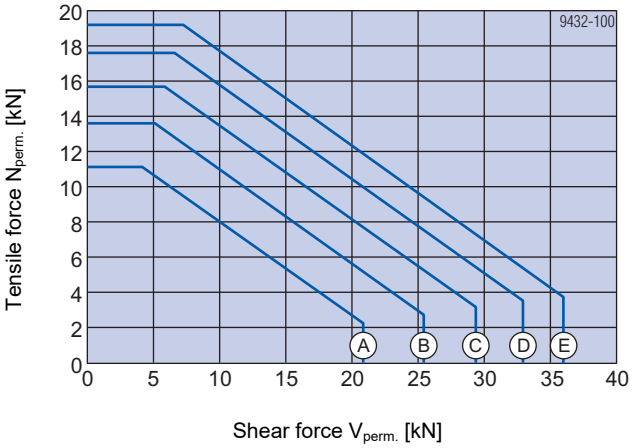
B Gauge for Doka express anchor 16x125mm (art. n° 588632000)

Structural design

Permissible values of temporary fixing points in uncracked concrete

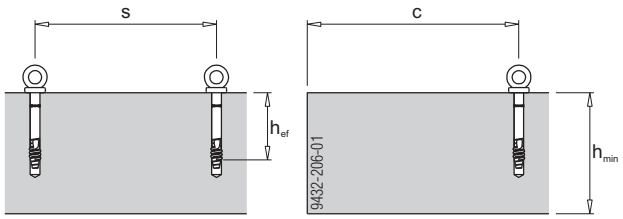


c ... max. thickness of attached part 15 mm



A	C8/10 ($f_{ck,cube,current}$ = 10 N/mm²)
B	C12/15 ($f_{ck,cube,current}$ = 15 N/mm²)
C	C16/20 ($f_{ck,cube,current}$ = 20 N/mm²)
D	C20/25 ($f_{ck,cube,current}$ = 25 N/mm²)
E	C25/30 ($f_{ck,cube,current}$ = 30 N/mm²)

Boundary conditions



Anchoring depth h_{ef} ... 85 mm
Building-element thickness h_{min} ... 200 mm
Distance from edge c ... 400 mm
Distance s from one another ... min. 1200 mm

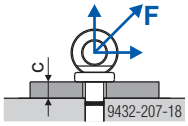
The following simplified values may be used:

- Permitted load in C8/10 concrete with $f_{ck,cube,current}$ ≥ 10 N/mm²:
  $F_{perm.}$ = 11.1 kN (R_d = 16.65 kN)
- Permitted load in C20/25 concrete with $f_{ck,cube,current}$ ≥ 25 N/mm²:
  $F_{perm.}$ = 17.6 kN (R_d = 26.4 kN)

NOTICE

If the boundary conditions differ from those stated above, the approval Z-21.8-2033 must be used!

Permissible values of back-stays on ring (values apply to uncracked concrete)



c ... max. thickness of attached part 15 mm

Permitted load where $f_{ck,cube}$ ≥ 10 N/mm²:
$F_{perm.}$ = 10.0 kN (R_d = 15.0 kN)

NOTICE

If the ring is damaged (deformed), it is not permitted to use this back-stay!