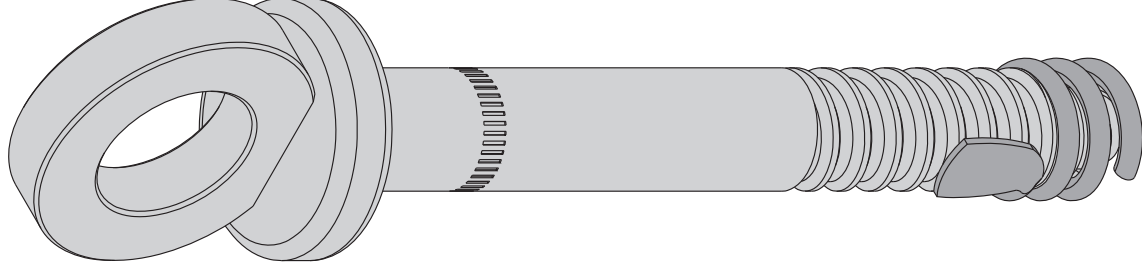


The Formwork Experts.

# Doka express anchor 16x125mm

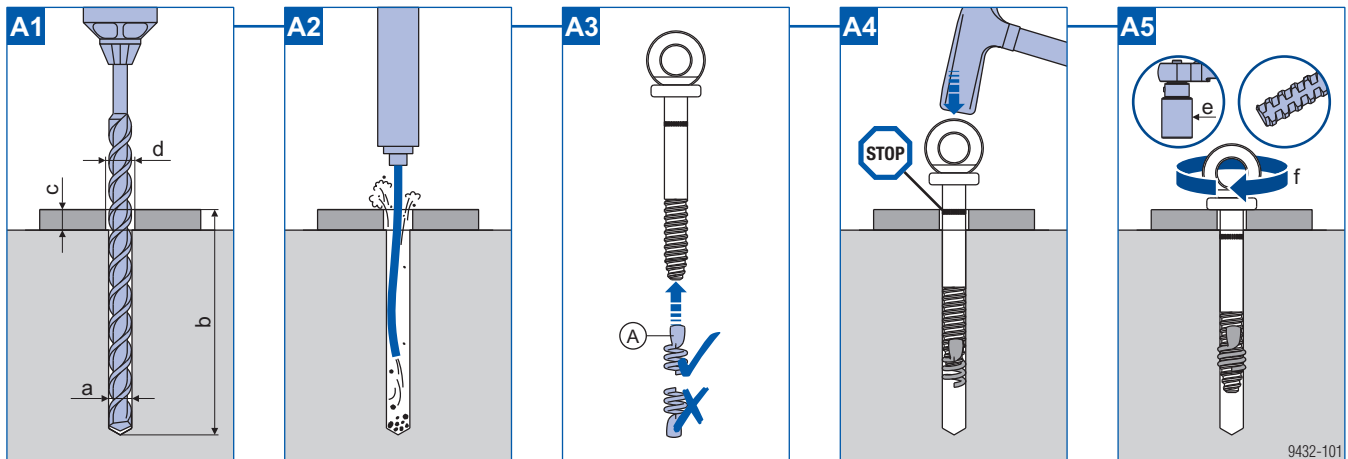
Art.-Nr. 588631000

**Fitting instructions**



# Installation and dismounting

## Installation



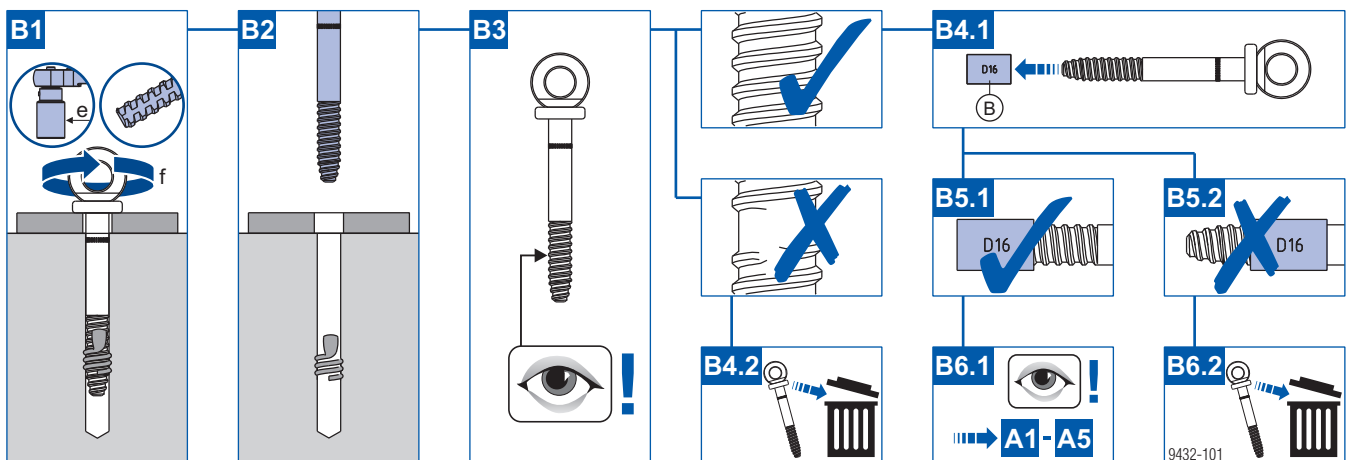
Animation: <https://player.vimeo.com/video/281800669>



### 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

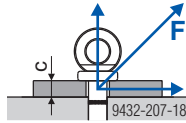


- a ... Nominal drill bit diameter  $\frac{5}{8}$ " (16 mm)  
 b ... Depth of drilled hole  $5 \frac{1}{2}$ " (135 mm) (The depth of the drilled hole b can be reduced by dimension c.)  
 c ... Max. thickness of attached part  $\frac{5}{8}$ " (15 mm)  
 d ... Diameter of hole drilled in the attached part  $\frac{5}{8}$ "-1" (17-25 mm)  
 e ... Width-across  $1 \frac{3}{8}$ " (36 mm)  
 f ... Torque  $T_{min}$  133 ft-lb (180 Nm)

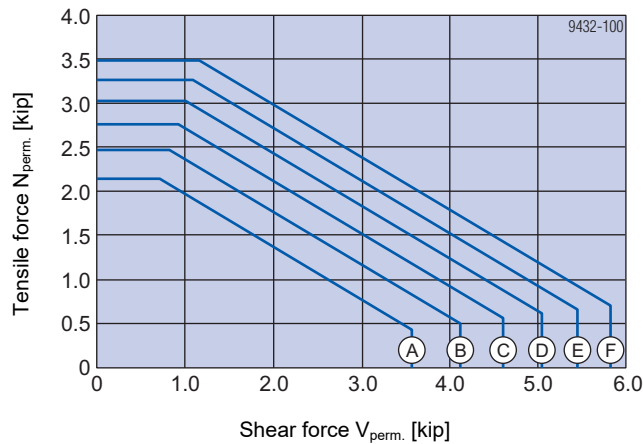
- A** Doka coil 16mm (art. n° 588633000)  
 Expendable part, can be used once only
- B** Gauge for Doka express anchor 16x125mm (art. n° 588632000)

## Structural design

### Permissible values (4 : 1 safety factor) of temporary fixing points in uncracked concrete



c ... Max. thickness of attached part 5/8" (15 mm)



**A**  $f_{ck,cube,current} > 1500$  psi

**B**  $f_{ck,cube,current} > 2000$  psi

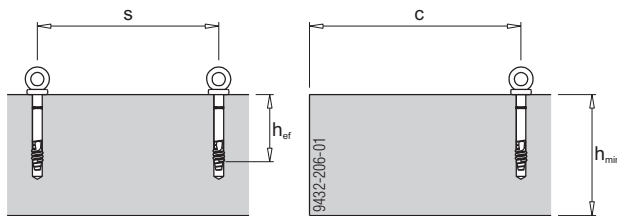
**C**  $f_{ck,cube,current} > 2500$  psi

**D**  $f_{ck,cube,current} > 3000$  psi

**E**  $f_{ck,cube,current} > 3500$  psi

**F**  $f_{ck,cube,current} > 4000$  psi

### Boundary conditions



Anchoring depth  $h_{ef}$  ... 3 3/4" (95 mm)

Building-element thickness  $h_{min}$  ... 8" (200 mm)

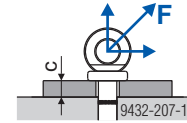
Distance from edge  $c$  ... 1'-4" (400 mm)

Distance from one another  $s$  ... min. 3'-11" (1200 mm)

The following simplified values may be used:

- Permitted load  $F_{perm.}$  in concrete with  $f_{ck,cube,current} > 1500$  psi: 2.1 kip
- Permitted load  $F_{perm.}$  in concrete with  $f_{ck,cube,current} > 3500$  psi: 3.3 kip

### Permissible values (4 : 1 safety factor) of back-stays on ring (values apply to uncracked concrete)



c ... Max. thickness of attached part 5/8" (15 mm)

Permitted load  $F_{perm.}$  where  $f_{ck,cube,current} \geq 1500$  psi:  
2.1 kip



#### NOTICE

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