The Formwork Experts.

Doka Express anchor
16x125mm
Art. n° 588631000

Fitting instructions
Installation and dismounting

Installation

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

Dismounting and check for reusability

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.

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

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

9432-101
**Structural design**

### Permissible values of temporary fixing points in uncracked concrete

![Diagram](image)

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

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

![Diagram](image)

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

<table>
<thead>
<tr>
<th>Tensile force $N_{\text{perm.}}$ [kN]</th>
<th>Shear force $V_{\text{perm.}}$ [kN]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> C8/10 ($f_{\text{ck, cube, current}} = 10 \text{ N/mm}^2$)</td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>B</strong> C12/15 ($f_{\text{ck, cube, current}} = 15 \text{ N/mm}^2$)</td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>C</strong> C16/20 ($f_{\text{ck, cube, current}} = 20 \text{ N/mm}^2$)</td>
<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>D</strong> C20/25 ($f_{\text{ck, cube, current}} = 25 \text{ N/mm}^2$)</td>
<td><strong>D</strong></td>
</tr>
<tr>
<td><strong>E</strong> C25/30 ($f_{\text{ck, cube, current}} = 30 \text{ N/mm}^2$)</td>
<td><strong>E</strong></td>
</tr>
</tbody>
</table>

**Boundary conditions**

- Anchoring depth $h_{\text{ef}}$ ... 85 mm
- Building-element thickness $h_{\text{min}}$ ... 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 $f_{\text{ck, cube, current}} \geq 10 \text{ N/mm}^2$:
  - $F_{\text{perm.}} = 11.1 \text{ kN} (R_d = 16.65 \text{ kN})$
- Permitted load in C20/25 concrete with $f_{\text{ck, cube, current}} \geq 25 \text{ N/mm}^2$:
  - $F_{\text{perm.}} = 17.6 \text{ kN} (R_d = 26.4 \text{ kN})$

**NOTICE**

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