Loads

Type

FDA 12 x 100

FDA 16 x 125

Dynamic-Anchor FDA

Design values for cyclic fatigue loading 0 of a single anchor normal concrete of strength class C20/25 2 . For the design the complete current assessment ETA-20/0206 has to be considered.

oomprote current as

element

gvz

avz

gvz

gvz

and drill hole cleaning acc. to assessment.

accordance with the provisions of the complete assessment.

4) Valid for pulsating loads. For alternating loads see assessment.

5) Without reduction of the tension and shear load. Details see assessment.

Material fixing

Effective

depth

[mm]

100

100

125

125

h_{ef}

anchorage

Minimum

ness

h_{min}

[mm]

130

200

160

250

member thick-

Cracked and non-cracked concrete

with reduced loads

 $\Delta N_{\text{Ed max}}^{3)}$

[kN]

10.8

10.8

18.5

18.5

Design values of tension ($\Delta N_{Ed,max}$) and shear loads ($\Delta V_{Ed,max}$);

S_{min}⁴⁾

[mm]

100

100

100

100

C_{min}⁴⁾

[mm]

2005)

1005)

2005)

100

minimum spacing (s_,,) and edge distances (c_,,

[kN]

5.0

5.0

9.1

9.1

 $\Delta V_{\text{Ed.max}}^{3)4)$

Installation

torque

Tinst

40

40

60

60

² For higher concrete strength classes up to C50/60 higher permissible loads may be possible, see assessment. The concrete is assumed to be standard-reinforced.

¹⁾ The design values of the cyclic fatigue loading apply for load cycles ≥ 5×10^6 in accordance with design method I acc. to TR061 - for unknown static lower load. If the static lower load is known and / or for lower number of load cycles higher load values are possible. The partial safety factors as regulated in the design standard are considered. As a single anchor counts e.g. an anchor with a spacing $s \ge 3 \times h_x$. The given load values apply for anchorages in dry and wet concrete and temperatures in the base material up to 50 °C (resp. short-term up to 80 °C)

1) In the case of combinations of tension loads, shear loads, bending moments with reduced or minimum spacing and edge distances (anchor groups) the design must be carried out in

[Nm]