Loads

Type

Highbond-Anchor FHB II Inject

FHB II-A S Inject M10 x 60

FHB II-A L Inject M10 x 95

FHB II-A S Inject M12 x 75

FHB II-A L Inject M12 x 100

FHB II-A L Inject M12 x 120

FHB II-A S Inject M16 x 95

FHB II-A L Inject M16 x 125

FHB II-A L Inject M16 x 160

specification in the ETA.

Permissible loads of a single anchor^(1) 2) in normal concrete of strength class C20/25. For the design the complete current assessment ETA-16/0637 has to be considered.

R

R

R

Material /

surface3)

Effective

anchor-

h_{ef}

60

95

75

100

120

95

125

160

[mm]

age depth

Minimum

member

h_{min}

[mm]

100

140

120

140

170

150

170

220

thickness

Instal-

lation

torque

Tinst

[Nm]

15

20

30

40

40

50

60

60

dance with the provisions of the complete ETA and the provisions of the EN 1992-4:2018. We recommend using our anchor design software C-FIX.

Cracked concrete

with reduced loads

V_{perm}⁴⁾

[kN]

13.8

13.3

19.3

19.3

19.3

30.4

35.8

35.8

Design according to EN 1992-4:2018 (for static resp. quasi-static loads). The partial safety factors for material resistance as regulated in the ETA as well as a partial safety factor for load

¹ The specified loads are valid for anchorages in dry and damp concrete. For temperatures in the anchoring substrate up to 50 °C (resp. short term up to 80 °C). Drill hole cleaning as per

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

N_{perm} 4)

[kN]

7.6

15.2

10.7

16.4

21.6

15.2

22.9

33.2

³⁾ Further steel grades, versions and technical data see ETA, e.g. for dry internal conditions, galvanised steel (gvz); for damp interiors and for outdoor use, stainless steel (R).

actions of $\gamma_x = 1.4$ are considered. As a single anchor counts e.g. an anchor with a spacing $s \ge 3 \times h_x$ and an edge distance $c \ge 1.5 \times h_x$. Accurate data see ETA.

Permissible tension (N_{nerm}) and shear loads (V_{nerm});

S_{min} 4)

[mm]

40

40

40

50

50

50

55

70

minimum spacing (s_i) and edge distances (c_i)

Non-cracked concrete

with reduced loads

V_{perm} 4)

[kN]

13.8

13.3

19.3

19.3

19.3

35.8

35.8

35.8

N_{perm}⁴⁾

[kN]

10.9

16.4

15.2

23.4

23.7

21.7

32.7

46.0

[mm]

40

40

40

50

50

50

55

70

Permissible tension (N_{nerm}) and shear loads (V_{nerm});

minimum spacing (s_{min}) and edge distances (c_{min})

 $S_{min}^{4)}$

[mm]

40

40

40

50

50

50

55

70

 $C_{min}^{4)}$

[mm]

40

40

40

50

50

50

55

70