## Loads

Type

FBS II 6 R

FBS II 8 R

FBS II 10 R

FBS II 12 R

## Permissible loads of a single anchor<sup>1)</sup> in normal concrete of strength class C20/25.

Concrete screw UltraCut FBS II R

surface

R

R

R

R

R

R

R

R

R

harahisana ad a

Maximum

Instal-

lation

torque

T<sub>imp. max</sub><sup>2</sup>

[Nm]

240

450

450

450

450

450

650

650

650

<sup>2</sup> Maximum allowable torque for installation using any tangential impact screwdriver. For further technical information, see the ETA.

Permissible tension (N<sub>norm</sub>) and shear loads (V<sub>norm</sub>);

S<sub>min</sub> 3)

[mm]

35

35

35

40

40

40

50

50

50

C<sub>min</sub> 3)

[mm]

35

35

35

40

40

40

50

50

50

minimum spacing (s...) and edge distances (c...)

V<sub>perm</sub> 3)

[kN]

7.2

4.1

61

4.6

6.0

184

5.3

15.2

23.9

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) In the case of combinations of tensile and shear loads, bending moments with reduced or minimal edge and axial spacings (anchor groups), the design must comply with the provisions of

with reduced loads

N<sub>perm</sub> 3)

[kN]

1.4

1.9

4.3

2.1

2.9

7.6

2.1

5.2

12.0

actions of  $\gamma_1 = 1.4$  are considered. As a single anchor counts e.g. an anchor with a spacing  $s \ge 3 \times h_{st}$  and an edge distance  $c \ge 1.5 \times h_{st}$ . Accurate data see ETA.

Non-cracked concrete

with reduced loads

N<sub>perm</sub> 3)

[kN]

3.4

3.3

67

4.0

6.7

13.1

4.8

5.7

17.1

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

S<sub>min</sub> 3)

[mm]

35

35

35

40

40

40

50

50

50

**C**<sub>min</sub> 3)

[mm]

35

35

35

40

40

40

50

50

50

minimum spacing (s<sub>min</sub>) and edge distances (c<sub>min</sub>)

V<sub>nerm</sub>3)

[kN]

7.2

5.9

8.8

6.6

8.5

20.9

7.5

21.8

26.2

Tor the design the co	inpicto current ass	bessillelit LIA-II	70140 01 202	5.01.00 has to be consider	C
				Cracked concrete	
Mate	erial/   Screw-in	Minimum	Maximum	Permissible tension (N	

member thickness

h<sub>min</sub>

[mm]

100

100

120

100

120

140

110

130

150

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

For the design the complete current assessment ETA-17/0740 of 202	
	Cracked con

depth

h<sub>nom</sub>

[mm]

60

50

65

55

65

85

60

75

100