Type

Anchor diameter

Screw diameter

Anchorage depth

Anchorage in concrete ≥ C16/204) Permissible tensile load N

Permissible shear load V

Minimum member thickness

Characteristic edge distance

Characteristic spacing

with an edge distance

Minimum edge distance

Anchorage in masonry

Permisible load<sup>5)</sup> F<sub>nerm</sub> in solid brick

Minimum member thickness

Minimum spacing (single anchor)

Minimum spacing (anchor group)

Minimum edge distance (anchor group)

4) For values in concrete C12/15 see assessment.

 $^{6)}$  Only valid for  $c_{1min}$  110 mm and  $c_{2min}$  165 mm.

ming humidity have to be taken.

Permissible load<sup>5)</sup> F<sub>nerm</sub> in solid sand-lime brick

Permissible load<sup>5)</sup> F<sub>nerm</sub> in perforated clay brick

Minimum spacing

with a spacing

Universal plug DuoPower

Permissible loads<sup>1/2/3)</sup> of a single anchor as part of a multiple fixing of non-structural systems. For the design the complete current assessment ETA-22/0512 of 04.11.2022 has to be considered.

d<sub>o</sub>

d

h<sub>nom</sub>

 $C_{cr,N}$ a resp. s<sub>crN</sub>

S<sub>min</sub>

C >

 $C_{\min}$ 

s>

≥ Mz 10/2; NF ≥ Mz 16/2: NF

≥ Mz 20/2: NF

≥ KS 8/2; 2DF

≥ KS 12/2; 2DF

≥ HIz 10/1.2; 9 DF

≥ HIz 12/1.2: 9 DF

The required partial safety factors for material resistance as well as a partial safety factor for load actions  $\gamma_1$  = 1.4 are considered. As a single anchor counts e.g. an anchor with a minimum spacing a according to Annex B 2 or B 3 of the assessment.

 $h_{min}$ 

a

Smin

 $C_{mir}$ 

 $^{3)}$  Valid for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

and minimum compressive strength in [N/mm<sup>2</sup>] according to EN 771.

zinc coated screws (gvz)

stainless steel screw (R)

DuoPower ETA 8x40

Power Fast II

8

40

0.12

3.10

150

55

15

50

100

50

100

[mm]

[mm] 6

[mm]

[kN]

[kN]

[kN]

[mm]

[mm]

[mm]

[mm]

[mm]

[mm]

[mm]

[kN]

[kN]

[kN]

[kN]

[kN]

[kN]

[kN]

[mm]

[mm]

[mm]

[mm]

1 Valid for zinc coated (gvz) Power Fast II and special screw and as well as for special screw made of stainless steel (R). For exterior use of the zinc coated screws measures against inco-

<sup>5)</sup> Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads and bending moments see assessment. Bulk density of stone in [kg/dm<sup>3</sup>]

DuoPower ETA 8x40

Spezialschraube

8

6

40

0.79

4.23

3.93

150

90

50

50

100

80

160

DuoPower ETA 10x50

Spezialschraube

10 7

50

0.79

5.98

5.98

150

80

50

50

100

80

160

0.40

0.57

0.71

0.60

0.60

0.17

0.21 115

250

50

80

 $0.70^{6}$ 

 $0.70^{6}$ 

## Loads