Loads

Type

RGM81

RG M 10 I

RG M 12 I

RG M 16 I

RG M 20 I

Injection system FIS V Plus with internal threaded anchor RG M I

Screw Material3)

5.8

8.8

R-70

For the design the complete current assessment ETA-20/0603 has to be considered.

age depth

h_{ef}

90

90

90

90

90

90

125

125

125

160

160

160

200

200

200

specification in the ETA. The factor $\Psi_{\text{\tiny sur}}$ for sustained load was taken into account with 1.0.

[mm]

Effective anchor-

Permissible loads of a single anchor^(1/2) in normal concrete of strength class C20/25.

Minimum member

thickness

h_{min}

120

120

120

130

130

130

170

170

170

210

210

210

260

260

260

[mm]

Maximum installa-

tion torque

T_{inst. max}

[Nm]

10

10

10

20

20

20

40

40

40

80

80

80

120

120

120

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). 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

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

accordance 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.

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

² 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

Non-cracked concrete

with reduced loads

N_{perm}⁴⁾

[kN]

9.0

13.8

9.9

13.8

20.0

15.7

20.5

32.0

22.5

37.6

47.4

42.0

58.6

66.3

65.7

Permissible tension (N_{nerm}) and shear loads (V_{nerm}); minimum spacing (s_{min}) and edge distances (c_{min})

[kN]

5.3

8.3

5.9

8.3

13.3

9.3

12.1

19.3

13.5

22.4

30.9

25.1

35.4

51.4

39.4

C_{min}⁴⁾

[mm]

55

55

55

65

65

65

75

75

75

95

95

95

125

125

125

[mm]

55

55

55

65

65

65

75

75

75

95

95

95

125

125

125