Loads

Type

RG M 8 I

RG M 10 I

RG M 12 I

RG M 16 I

Injection system FIS GREEN with internal threaded anchor RG M I Permissible loads of a single anchor^{0,20} in normal concrete of strength class C20/25.

Screw Material3)

5.8

8.8

R-70

5.8

8.8

R-70

5.8

8.8

R-70

5.8

8.8

R-70

For the design the complete current assessment ETA-14/0408 has to be considered.

h_{ef}

90

90

90

90

90

90

125

125

125

160

160

160

specification in the ETA. The factor Ψ_{aux} for sustained load was taken into account with 1.0.

[mm]

)	Effective anchorage depth	Minimum member thickness	Maximum Installation torque

h_{min}

120

120

120

130

130

130

170

170

170

210

210

210

[mm]

T_{inst, max}

[Nm]

10

10

10

20

20

20

40

40

40

80

80

80

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.

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.

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

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

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

²¹ 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

11.9

9.9

13.8

13.9

13.9

20.2

20.2

20.2

27.8

27.8

27.8

Permissible tension (N_{perm}) and shear loads (V_{perm}); minimum spacing (S_{min}) and edge distances (C_{min})

V_{perm}⁴⁾

[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

 $S_{min}^{4)}$

[mm]

55

55

55

65

65

65

75

75

75

95

95

95

C_{min}⁴⁾

[mm]

55

55

55

65

65

65

75

75

75

95

95

95