Type

RG M8 I

**RG M10 I** 

RG M12 I

RG M16 I

RG M20 I

Loads

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

Screw

5.8

8.8

R-70

5.8

88

R-70

5.8

8.8

R-70

5.8

8.8

R-70

5.8

8.8

R-70

material3)

Permissible loads of a single anchor<sup>1) 2)</sup> in normal concrete of strength class C20/25.

**Effective** 

depth

[mm]

h<sub>ef</sub>

90

90

90

90

90

90

125

125

125

160

160

160

200

200

200

anchorage

For the design the complete current assessment ETA-17/0979 of 22.04.2024 has to be considered.

Minimum

member

thickness

h<sub>min</sub>

[mm]

120

120

120

130

130

130

170

170

170

210

210

210

260

260

260

Maximum

torque

T<sub>inst.max</sub>

[Nm]

10

10

10

20

20

20

40

40

40

80

80

80

120

120

120

installation-

Cracked concrete

with reduced loads

[kN]

6.2

8.3

5.9

9.9

13.3

9.3

14.4

19.3

13.5

26.9

35.9

25.1

42.0

56.0

39.2

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

<sup>2</sup> 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 72 °C). Higher loads are possible at

N<sub>perm</sub><sup>4)</sup>

[kN]

8.7

11.3

9.8

12.9

12.9

12.9

20.0

20.2

20.2

33.2

33.2

33.2

46.4

46.4

46.4

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.

lower temperatures. Drilling method and borehole cleaning according to ETA specifications. The factor  $\Psi_{am}$  for sustained load was taken into account with 1.0. <sup>3</sup> Further steel grades, versions and technical data see ETA, e.g. for dry internal conditions, galvanised steel (gyz); 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

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.

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

[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

minimum spacing (s\_m) and edge distances (c\_m)

Non-cracked concrete

with reduced loads

[kN]

6.2

8.3

5.9

9.9

13.3

9.3

14.4

19.3

13.5

26.9

35.9

25.1

42.0

56.0

39.2

N<sub>perm</sub><sup>4)</sup>

[kN]

8.7

13.9

9.8

13.8

20.0

15.5

20.0

32.1

22.5

37.3

47.4

41.9

58.3

66.3

65.4

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

[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

minimum spacing (s\_i) and edge distances (c\_i)