

# Frame fixing URDL

## Load table

Permissible loads<sup>1)2)</sup> of a single anchor as part of a multiple fixing of non-structural systems

For the design, the entire assessment ETA-17/0811 must be considered.

| Type                                                                    |                   |      | URDL 8      | URDL10      |
|-------------------------------------------------------------------------|-------------------|------|-------------|-------------|
| Anchor diameter                                                         | $d_0$             | [mm] | 8           | 10          |
| Anchoring depth                                                         | $h_{ef}$          | [mm] | 70          | 70          |
| <b>Anchoring in concrete <math>\geq</math> C16/20</b>                   |                   |      |             |             |
| Permissible tensile load $N_{perm}$                                     |                   | [kN] | 1.39        | 1.79        |
| Permissible shear load $V_{perm}$                                       | zP                | [kN] | 3.2         | 4.4         |
| Permissible shear load $V_{perm}$                                       | R                 | [kN] | 4.51        | 6.17        |
| Minimum member thickness                                                | $h_{min}$         | [mm] | 140         | 140         |
| Characteristic edge distance                                            | $c_{cr,N}$        | [mm] | 105         | 105         |
| Characteristic spacing distance                                         | a bzw. $s_{cr,N}$ | [mm] | 75          | 90          |
| Minimum spacing distance                                                | $s_{min}$         | [mm] | 90          | 100         |
| Minimum edge distance                                                   | $c_{min}$         | [mm] | 90          | 100         |
| <b>Anchoring in masonry</b>                                             |                   |      |             |             |
| Permissible load in solid brick                                         | Mz                | [kN] | 0,86 - 1,14 | 0,57 - 1,43 |
| Permissible load $F_{perm}$ <sup>3)</sup> in solid sand-lime brick      | KS                | [kN] | 1.57        | 1.71        |
| Permissible load $F_{perm}$ <sup>3)4)</sup> in perforated brick         | HLz               | [kN] | 0,09 - 0,26 | 0.09        |
| Permissible load $F_{perm}$ <sup>3)</sup> in perforated sand-lime brick | KSL               | [kN] | 1.43        | 1.57        |
| Minimum member thickness                                                | $h_{min}$         | [mm] | 110 - 370   | 110 - 370   |
| Minimum edge distance (single anchor)                                   | $c_{min}$         | [mm] | 120 - 185   | 120 - 185   |
| Minimum spacing distance (anchor group) vertical to the edge            | $s1_{min}$        | [mm] | 240 - 370   | 240 - 370   |
| Minimum spacing distance (anchor group) parallel to the edge            | $s2_{min}$        | [mm] | 480 - 740   | 480 - 740   |
| Minimum edge distance (anchor group)                                    | $c_{min}$         | [mm] | 75 - 125    | 75 - 125    |
| <b>Anchoring in aerated concrete</b>                                    |                   |      |             |             |
| Permissible load $F_{perm}$ <sup>3)</sup> in aerated concrete           | ACC               | [kN] | 0.1         | 0.17        |
| Minimum member thickness                                                | $h_{min}$         | [mm] | 240         | 240         |
| Minimum edge distance (single anchor)                                   | $c_{min}$         | [mm] | 120         | 120         |
| Minimum spacing distance (anchor group) vertical to the edge            | $s1_{min}$        | [mm] | 240         | 240         |
| Minimum spacing distance (anchor group) parallel to the edge            | $s2_{min}$        | [mm] | 480         | 480         |
| Minimum edge distance (anchor group)                                    | $c_{min}$         | [mm] | 120         | 120         |

<sup>1)</sup> The partial safety factors for resistance regulated in the assessment, as well as a partial safety factor for action of  $\gamma_L = 1.4$ , are taken into account.

<sup>2)</sup> Valid for temperatures in the anchoring base up to +50 °C (or temporarily up to +80 °C). For long-term temperatures up to +30 °C, higher permissible loads are possible.

<sup>3)</sup> Valid for tensile, shear, and oblique pull at any angle. For combinations of tensile and shear loads as well as bending moments, see the assessment.

<sup>4)</sup> Refers to the stones of the respective category regulated in the approval, the highest permissible load, and the installation instructions, which must be evaluated depending on the stone properties.