## Loads

## Wedge Anchor FWA R2

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

							Non-cracked concrete			
	Material <sup>2)</sup>	Effective anchorage depth	Minimum member thickness	Drill hole diameter	Drill diameter for push- through installation	Installation torque	Recommended tension (N $_{\rm rec}$ ) and shear loads (V $_{\rm rec}$ ); minimum spacing (s $_{\rm min}$ ) and edge distances (c $_{\rm min}$ )			
		h <sub>ef</sub> ≥	h <sub>min</sub>	d <sub>o</sub>	d <sub>f</sub>	T <sub>inst</sub>	N <sub>rec</sub> <sup>4)</sup>	V <sub>rec</sub> <sup>4)</sup>	S <sub>min</sub> <sup>4)</sup>	C <sub>min</sub> <sup>4)</sup>
Туре		[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[mm]	[mm]
FWA R2 8	R	30 <sup>3)</sup>	100	8	9	10	2.8	4.0	50	45
	R	40	100	8	9	10	3.4	4.0	40	45
FWA R2 10	R	40	100	10	12	20	4.8	6.5	50	80
	R	50	100	10	12	20	6.7	9.0	70	55
FWA R2 12	R	50	100	12	14	35	6.9	9.0	70	100
	R	65	120	12	14	35	10.5	13.0	70	70
FWA R2 16	R	65	120	16	18	80	9.5	24.0	90	120
	R	80	160	16	18	80	13.5	24.0	120	80

<sup>1)</sup> The partial safety factors for the material resistance and a partial safety factor for the action of  $\gamma_L = 1.4$  are taken into account. As a single anchor counts e.g. an anchor with a spacing  $s \ge 3 \times h_{ar}$  and an edge distance  $c \ge 1.5 \times h_{ar}$ .

<sup>2)</sup> Material A2 according to DIN ISO 3506.

<sup>3)</sup> For embedment depths less than 40 mm, the use of a single anchor is only permitted as part of a multiple fastening of non-load-bearing systems.

<sup>4)</sup> The specified loads apply individually, without simultaneous action of shear forces, tensile forces, or bending moments. Effects due to reduced axial and edge distances, corners, or anchor groups are not taken into account.