Loads

Heavy-duty anchor SL M

Recommended loads[1] of a single anchor in normal concrete of strength class C20/25.

						Non-cracked concrete			
						Recommended tension (N_{rec}) and shear loads (V_{rec}); minimum spacing (s_{min}) and edge distances (c_{min}) with reduced loads			
Type	Material / surface	Screw material	Effective anchorage depth h_{ef} [mm]	Minimum member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	N_{rec} [2] [kN]	V_{rec} [2] [kN]	s_{min} [3] [mm]	c_{min} [3] [mm]
SL M 8N R	R	A4-70	45	100	25	3.5	3.5	50	90
SL M 10N R	R	A4-70	50	100	50	5.0	5.0	50	100
SL M 16	gvz	8.8	62	130	100	8.0	8.0	60	120
SL M 20	gvz	8.8	77	150	150	11.0	11.0	80	160
SL M 24	gvz	8.8	90	200	200	13.9	13.9	90	180

[1] Required safety factors are considered. As a single anchor counts e.g. an anchor with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1.5 \times h_{ef}$.

[2] In the case of combinations of tensile 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 EN 1992-4:2018.

[3] Minimum possible axial spacings resp. edge distance while reducing the recommended load.