

Loads

S-Plug

Recommended loads¹⁾ for a single anchor.

The given loads are valid for wood screws with the specified diameter.

Type		S 4	S 5	S 6	S 8	S 10	S 12	S 14	S 16	S 20
Wood screw diameter	[mm]	3	4	5	6	8	10	12	12	16
Min. edge distance concrete c_{\min}	[mm]	20	25	30	40	50	60	70	80	100
Recommended loads in the respective base material F_{rec} ²⁾										
Concrete \geq C20/25	[kN]	0.16	0.28	0.40	0.60	1.10	1.50	1.85	2.26	3.88
Solid brick \geq Mz 12	[kN]	0.14	0.24	0.28	0.50	³⁾	³⁾	³⁾	³⁾	³⁾
Solid sand-lime brick \geq KS 12	[kN]	0.14	0.24	0.28	0.55	³⁾	³⁾	³⁾	³⁾	³⁾
Aerated concrete \geq AAC 4	[kN]	³⁾	³⁾	0.05	0.07	0.16	0.28	0.40	³⁾	³⁾
Gypsum block	[kN]	³⁾	³⁾	³⁾	0.15	0.23	0.37	0.60	³⁾	³⁾

¹⁾ Required safety factors are considered. Valid for installation and use in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

²⁾ Valid for tensile load, shear load and oblique load under any angle.

³⁾ Due to that the failure of the substrate varies too much no reproducible values can be given.