

# Loads

## S-Plug

Highest recommended loads<sup>1)</sup> 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 $F_{rec}$ <sup>2)</sup>											
Concrete	≥ C20/25	[kN]	0.16	0.28	0.40	0.60	1.10	1.50	1.85	2.26	3.88
Solid brick	≥ Mz 12	[kN]	0.14	0.24	0.28	0.50	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>
Solid sand-lime brick	≥ KS 12	[kN]	0.14	0.24	0.28	0.55	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>
Aerated concrete	≥ AAC 4 (G4)	[kN]	<sup>3)</sup>	<sup>3)</sup>	0.05	0.07	0.16	0.28	0.40	<sup>3)</sup>	<sup>3)</sup>
Gypsum block		[kN]	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	0.15	0.23	0.37	0.60	<sup>3)</sup>	<sup>3)</sup>

<sup>1)</sup> Required safety factors are considered.

<sup>2)</sup> Valid for tensile load, shear load and oblique load under any angle.

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