

# LOADS

## Expansion plug S

Highest recommended loads<sup>1)</sup> for a single anchor.

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

Type			S4	S5	S6	S8	S10	S12	S14	S16	S20
Wood screw diameter	∅	[mm]	3	4	5	6	8	10	12	12	16
Min. edge distance concrete	c <sub>min</sub>	[mm]	20	25	30	40	50	60	70	80	100
<b>Recommended loads in the respective base material F<sub>rec</sub><sup>2)</sup></b>											
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	[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.