

DuoPower

Recommended loads¹⁾ for a single anchor.

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

Type		5 x 25	6 x 30	6 x 50	8 x 40	8 x 65	10 x 50	10 x 80	12 x 60	14 x 70
Wood screw diameter	[mm]	4	5	5	6	6	8	8	10	12
Min. edge distance concrete c_{min}	[mm]	30	35	35	50	50	65	65	80	100
Recommended loads in the respective base material $F_{rec}^{2)}$										
Concrete $\geq C20/25$	[kN]	0.40	0.95	1.65	1.10	2.30	2.15	4.20	3.30	5.30
Solid brick $\geq Mz 12$	[kN]	0.30	0.50	0.55	0.62	0.69	1.20	1.45	1.30	1.35
Solid sand-lime brick $\geq KS 12$	[kN]	0.50	1.00	1.60	1.25	2.25	2.20	3.85	2.80	4.50
Aerated concrete $\geq AAC 2$	[kN]	0.05	0.10	0.15	0.10	0.16	0.20	0.30	0.24	0.35
Aerated concrete $\geq AAC 4$	[kN]	0.25	0.38	0.55	0.42	0.60	0.60	1.10	1.00	1.45
Sand-lime hollow block $\geq KSL 12 (\rho \geq 1.6 \text{ kg/dm}^3)$	[kN]	0.40	0.60	0.60	0.70	1.00	0.70	2.00	0.75	1.50
Vertically perforated brick $\geq HLz 12 (\rho \geq 0.9 \text{ kg/dm}^3)$	[kN]	0.13	0.15	0.17	0.25	0.40	0.25	0.40	0.35	0.40
Vertically perforated brick Doppio UNI 19	[kN]	0.15	0.15	0.23	0.25	0.30	0.25	0.52	0.35	0.35
Vertically perforated brick Forato Typ F8	[kN]	0.15	0.15	-	0.25	-	0.25	-	-	-
Light-weight concrete hollow block Sepa Parpaing	[kN]	0.30	0.45	0.25 ³⁾	0.45	0.45 ³⁾	0.45	0.45 ³⁾	0.60 ³⁾	0.60 ³⁾
Gypsum block $(\rho \geq 0.9 \text{ kg/dm}^3)$	[kN]	0.10	0.18	0.37	0.25	0.50	0.35	0.65	0.50	0.50
Gypsum fibreboard 12.5 mm	[kN]	0.24	0.33	0.35	0.35	-	0.50	-	-	-
Gypsum plasterboard 12.5 mm	[kN]	0.12	0.15	0.15	0.15	-	0.15	-	-	-
Gypsum plasterboard 2 x 12.5 mm	[kN]	0.13	0.15	0.24	0.20	0.32	0.30	-	-	-

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⁾ Load determination on plastered wall.