LOADS

DUOPOWER

Highest recommended loads[1] for a single anchor.

The given loads are valid for wood screws acc. DIN 571 with the specified diameters

Type			DUOPOWER 5 x 25	DUOPOWER 6 x 30	DUOPOWER 8 x 40	DUOPOWER 10 x 50
Screw diameter	Ø	[mm]	4	5	6	8
Min. edge distance in concrete	c_{min}	[mm]	30	35	50	65
Recommended loads in the respective base material F_{rec}[2]						
Concrete	≥ C20/25	[kN]	0,30	0,80	0,90	2,00
Solid brick	≥ Mz 12	[kN]	0,25	0,40	0,45	1,00
Solid sand-lime brick	≥ KS 12	[kN]	0,42	0,80	0,90	1,85
Aerated concrete	≥ PB2, PP2 (G2)	[kN]	0,05	0,06	0,08	0,15
Aerated concrete	≥ PB4, PP4 (G4)	[kN]	0,20	0,30	0,30	0,45
Vertically perforated brick	≥ Hlz 12 ($\rho \geq 0.9$ kg/dm³)	[kN]	0,10	0,15	0,20	0,25
Perforated sand-lime brick	≥ KSL 12 ($\rho \geq 1.6$ kg/dm³)	[kN]	0,27	0,50	0,50	0,60
Plaster wall	$\rho \geq 0,9$ kg/dm³	[kN]	0,06	0,15	0,20	0,27
Gypsum fibreboard	12,5 mm	[kN]	0,17	0,30	0,30	0,35[3]
Gypsum plasterboard	12,5 mm	[kN]	0,09	0,12	0,15	0,15[3]
Gypsum plasterboard	2 x 12,5 mm	[kN]	0,10	0,12	0,17	0,23
Mattone Forato Typ F8		[kN]	0,15	0,16	0,20	0,20
Tramezza Doppio UNI 19		[kN]	0,10	0,10	0,12	0,16

[1] Includes the safety factor 7.

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

[3] Chipboard screw 6 mm.

LOADS

DUOPOWER

Highest recommended loads[1] for a single anchor.

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

Type			DUOPOWER 5 x 25	DUOPOWER 6 x 30	DUOPOWER 8 x 40	DUOPOWER 10 x 50
Screw diameter	Ø	[mm]	4[3]	4,5[3]	5[3]	7[4]
Min. edge distance in concrete	c_{min}	[mm]	30	35	50	65
Recommended loads in the respective base material F_{rec}[2]						
Concrete	≥ C20/25	[kN]	0,25	0,50	0,71	1,70
Solid brick	≥ Mz 12	[kN]	0,15	0,20	0,25	0,70
Aerated concrete	≥ PB2, PP2 (G2)	[kN]	0,05	0,06	0,08	0,15
Vertically perforated brick	≥ Hlz 12 ($\rho \geq 0.9$ kg/dm³)	[kN]	0,10	0,15	0,20	0,43
Gypsum plasterboard	12,5 mm	[kN]	0,07	0,12	0,15	0,15

[1] Includes the safety factor 7.

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

[3] Chipboard screw

[4] Wood screw