

Nylon toggle fischer DuoTec

Recommended loads¹⁾²⁾ for a single anchor.

Type		fischer DuoTec 10		fischer DuoTec 12		
		Chipboard screws		Chipboard screws		Metrical screw
Screw diameter	[mm]	4.5	5.0	5.0	6.0	6.0
Recommended loads in the respective base material $F_{rec}^{3)}$ for a span in the construction $b = 625 \text{ mm}$						
Gypsum plasterboard	9.5 mm	[kN]	0.17	0.17	0.17	0.17
Gypsum plasterboard	12.5 mm	[kN]	0.20	0.20	0.20	0.20
Gypsum plasterboard	2 x 12.5 mm	[kN]	0.43	0.43	0.43	0.43
Gypsum fibreboard	12.5 mm	[kN]	0.51	0.51	0.51	0.51
Chipboard	16 mm	[kN]	0.71	0.71	0.75	0.80
OSB board	18 mm	[kN]	0.75	0.75	0.75	1.30
Recommended loads in the respective base material $F_{rec}^{3)}$ for a span in the construction $b = 120 \text{ mm}$						
Gypsum plasterboard	9.5 mm	[kN]	0.20	0.20	0.20	0.20
Gypsum plasterboard	12.5 mm	[kN]	0.36	0.36	0.36	0.36
Gypsum plasterboard	2 x 12.5 mm	[kN]	0.59	0.59	0.70	0.80
Gypsum fibreboard	12.5 mm	[kN]	0.75	0.75	0.80	1.10
Chipboard	16 mm	[kN]	0.75	0.75	0.80	1.40
OSB board	18 mm	[kN]	0.75	0.75	0.80	1.50
Recommended loads in solid building materials $F_{rec}^{3)}$						
Concrete	$\geq \text{C20/25}$	[kN]	0.45	0.75	0.40	0.75
Wood		[kN]	0.30	0.75	0.20	0.65
Recommended loads in the respective base material $F_{rec}^{3)}$						
Hollow block of lightweight aggregate concrete 'Sepa Parpaing'	$f_b \geq 8 \text{ N/mm}^2$	[kN]	-	-	0.65	1.00
Pre-stressed hollow-core concrete slabs		[kN]	-	-	1.00	1.40
Lightweight concrete hollow block Hbl acc. to EN 771-3	$f_b \geq 2 \text{ N/mm}^2$	[kN]	-	-	0.90	1.00

¹⁾ Required safety factors are considered.

²⁾ The recommended loads are reference values and depending to the building material and the workmanship. The values are only valid for the given screw diameter.

³⁾ Valid for tensile load, shear load and oblique load under any angle.

⁴⁾ Bending of the hook is decisive. Only for tension load.