LOADS

Nylon toggle fischer DUOTEC

Highest recommended loads[1)4)] for a single anchor.

Type			DUOTEC 10				DUOTEC 12			
			Chipboard screw		Metrical screw	fischer Hook	Chipboard screw		Metrical screw	fischer Hook
Screw diameter		[mm]	4,5	5	5	5	5	6	6	5,5
Recommended loads in the respective base material F_{rec}[2)] for a span in the construction b = 625 mm										
Gypsum plasterboard	9,5 mm	[kN]	0,17	0,17	0,17	0,17	0,17	0,17	0,17	0,17
Gypsum plasterboard	12,5 mm	[kN]	0,20	0,20	0,20	0,20	0,20	0,20	0,20	0,20
Gypsum plasterboard	2 x 12,5 mm	[kN]	0,43	0,43	0,43	0,30[3)]	0,43	0,43	0,43	0,43
Gypsum fibreboard	12,5 mm	[kN]	0,51	0,51	0,51	0,30[3)]	0,51	0,51	0,51	0,50[3)]
Chipboard	16 mm	[kN]	0,71	0,71	0,71	0,30[3)]	0,75	0,80	0,80	0,50[3)]
OSB board	18 mm	[kN]	0,75	0,75	0,75	0,30[3)]	0,75	1,30	1,20	0,50[3)]
Recommended loads in the respective base material F_{rec}[2)] for a span in the construction b = 120 mm										
Gypsum plasterboard	9,5 mm	[kN]	0,20	0,20	0,20	0,20	0,20	0,20	0,20	0,20
Gypsum plasterboard	12,5 mm	[kN]	0,36	0,36	0,36	0,30[3)]	0,36	0,36	0,36	0,20
Gypsum plasterboard	2 x 12,5 mm	[kN]	0,59	0,59	0,59	0,30[3)]	0,70	0,80	0,80	0,50[3)]
Gypsum fibreboard	12,5 mm	[kN]	0,75	0,75	0,75	0,30[3)]	0,80	1,10	1,10	0,50[3)]
Chipboard	16 mm	[kN]	0,75	0,75	0,75	0,30[3)]	0,80	1,40	1,30	0,50[3)]
OSB board	18 mm	[kN]	0,75	0,75	0,75	0,30[3)]	0,80	1,50	1,40	0,50[3)]
Recommended loads in solid building materials F_{rec}[2)]										
Concrete	≥ C20/25	[kN]	0,45	0,75	-	0,30[3)]	0,40	0,75	-	0,30
Wood		[kN]	0,30	0,75	-	0,30[3)]	0,20	0,65	-	0,30
Recommended loads in the respective base material F_{rec}[2)]										
Hollow block of lightweight aggregate concrete 'Sepa Parpaing'	$f_b \geq 8$ N/mm²	[kN]	-	-	-	-	0,65	1,00	1,00	0,50[3)]
Pre-stressed hollow-core concrete slabs		[kN]	-	-	-	-	1,00	1,40	1,30	0,50[3)]
Hollow block of lightweight aggregate concrete Hbl acc. EN 771-3	$f_b \geq 2$ N/mm²	[kN]	-	-	-	-	0,90	1,00	1,00	0,50[3)]

[1)] Required safety factors are considered.

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

[3)] Bending of the hook is decisive. Only for tension load.

[4)] 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.