Loads

Fill & Fix

Recommended loads[1)2)] for a single anchor.
The given loads are valid for chipboard screws with the specified diameters.

Type			Fill & Fix		
Diameter of chipboard screw	Ø	**[mm]**	4.0	5.0	6.0
Nominal drill diameter	d_0	**[mm]**	10	10	10
Anchorage depth	$h_{ef} \geq$	**[mm]**	45	45	45
Drill hole depth	$h_1 \geq$	**[mm]**	50	50	50
Anchorage in solid substrates					
Recommended load in concrete	≥ C12/15	**[kN]**	0.50	0.60	0.70
Recommended load in sand-lime bricks	≥ KS 20, ≥ NF	**[kN]**	0.50	0.60	0.70
Anchorage in perforated bricks/hollow blocks using the perforated sleeve					
Recommended load in vertically perforated bricks	≥ HLz 12, $\rho \geq 0.9$ kg/dm^3, ≥ 16DF	**[kN]**	0.20	0.25	0.30
Recommended load in perforated sand-lime bricks	≥ KSL 12, $\rho \geq 1.4$ kg/dm^3, ≥ 5DF	**[kN]**	0.20	0.25	0.30
Recommended load in lightweight concrete hollow blocks	≥ Hbl 4, 2K, ≥ 8DF	**[kN]**	0.20	0.25	0.30
Anchorage in aerated concrete					
Recommended load in aerated concrete	≥ PB2, PP2	**[kN]**	0.10	0.15	0.20
Anchorage in board materials using the perforated sleeve					
Recommended load in gypsum plasterboard	12.5 mm	**[kN]**	0.12	0.12	0.12
Recommended load in gypsum plasterboard	25 mm (= 2 × 12.5 mm)	**[kN]**	0.20	0.20	0.20
Recommended load in gypsum fibreboard	12.5 mm	**[kN]**	0.21	0.21	0.21

[1)] Required safety factors are considered.
[2)] Valid for tensile load, shear load and oblique load under any angle.