



HTB Light duty metal anchors

Economical metal anchor for drywall and hollow wall

Anchor version



HTB
(M5-M6)

Benefits

- Ingenious and strong for hollow base materials
- Convincing simplicity when setting
- Technical superiority with up to 92 mm fixing thickness
- Load carried by strong metal channel and screw

Base material



Drywall

Basic loading data

All data in this section applies to:

- Correct setting (See setting instruction)
- No edge distance and spacing influence
- Base material as specified in the table
- Minimum base material thickness

Characteristic resistance

Anchor size			M5	M6
Gypsum board Thickness 10 mm	N_{Rk}	[kN]	0,75	
	V_{Rk}	[kN]	0,45	
Gypsum board Thickness 12,5 mm	N_{Rk}	[kN]	1,20	
	V_{Rk}	[kN]	0,90	
Gypsum board Thickness 2x12,5 mm	N_{Rk}	[kN]	2,10	
	V_{Rk}	[kN]	0,90	
Fibre reinforced gypsum board Thickness 10 mm	N_{Rk}	[kN]	1,20	
	V_{Rk}	[kN]	1,80	
Fibre reinforced gypsum board Thickness 12,5 mm	N_{Rk}	[kN]	1,80	
	V_{Rk}	[kN]	3,00	
Hollow decks Cavity to surface thickness $\geq 30,0$ mm	N_{Rk}	[kN]	1,50	
	V_{Rk}	[kN]	-	
Hollow brick "Parpaing Creux B40"	N_{Rk}	[kN]	1,35	
	V_{Rk}	[kN]	2,70	

Design resistance

Anchor size			M5	M6
Gypsum board Thickness 10 mm	N_{Rd}	[kN]	0,35	
	V_{Rd}	[kN]	0,21	
Gypsum board Thickness 12,5 mm	N_{Rd}	[kN]	0,56	
	V_{Rd}	[kN]	0,42	
Gypsum board Thickness 2x12,5 mm	N_{Rd}	[kN]	0,98	
	V_{Rd}	[kN]	0,42	
Fibre reinforced gypsum board Thickness 10 mm	N_{Rd}	[kN]	0,56	
	V_{Rd}	[kN]	0,84	
Fibre reinforced gypsum board Thickness 12,5 mm	N_{Rd}	[kN]	0,84	
	V_{Rd}	[kN]	1,40	
Hollow decks Cavity to surface thickness $\geq 30,0$ mm	N_{Rd}	[kN]	0,70	
	V_{Rd}	[kN]	-	
Hollow brick "Parpaing Creux B40"	N_{Rd}	[kN]	0,63	
	V_{Rd}	[kN]	1,26	

Recommended loads^{a)}

Anchor size			M5	M6
Gypsum board Thickness 10 mm	N_{Rec}	[kN]	0,25	
	V_{Rec}	[kN]	0,15	
Gypsum board Thickness 12,5 mm	N_{Rec}	[kN]	0,40	
	V_{Rec}	[kN]	0,30	
Gypsum board Thickness 2x12,5 mm	N_{Rec}	[kN]	0,70	
	V_{Rec}	[kN]	0,30	
Fibre reinforced gypsum board Thickness 10 mm	N_{Rec}	[kN]	0,40	
	V_{Rec}	[kN]	0,60	
Fibre reinforced gypsum board Thickness 12,5 mm	N_{Rec}	[kN]	0,60	
	V_{Rec}	[kN]	1,00	
Hollow decks Cavity to surface thickness $\geq 30,0$ mm	N_{Rec}	[kN]	0,50	
	V_{Rec}	[kN]	-	
Hollow brick "Parpaing Creux B40"	N_{Rec}	[kN]	0,45	
	V_{Rec}	[kN]	0,90	

a) With overall global safety factor $\gamma = 3$ to the characteristic loads and a partial safety factor of $\gamma = 1,4$, to the design values.

Materials

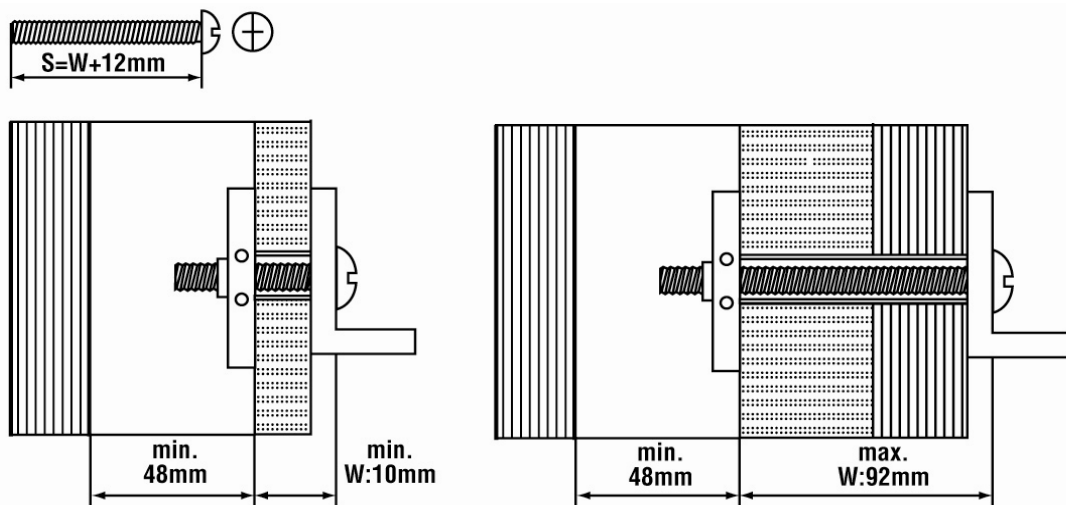
Material quality

Part	Material
Metal channel	Carbon steel galvanized to 5 microns
Cap washer	Polypropylene copolymer
Legs	High impact polystyrene
Screw	Carbon steel galvanized to 3 microns

Setting information

Setting details

Anchor size			M5	M6
Nominal diameter of drill bit	d_o	[mm]	13 - 14	
Thickness of wall and fixture	min	$h + t_{fix}$	10	
	max	$h + t_{fix}$	92	
Minimum space of cavity	l	[mm]	48	
Screw length	l		$12 + h + t_{fix}$	
Screw size	d	[Nm]	M5	M6
Torque moment	T_{inst}	[mm]	3	5



Installation equipment

Anchor size	M5	M6
Rotary hammer	TE 6A, TE 6C, TE 6S, TE 15, TE 15-C, TE 18-M	
Setting tools	Torque wrench	
Machine setting tool	available	

Setting instruction

*For detailed information on installation see instruction for use given with the package of the product.

