Hilti HTB Hollow Wall Metal Anchor

Features:

- Bridges a large range of wall / panel thicknesses
- Safe against rotation in hole
- Simple setting

Material:

- Channel: cold rolled steel galvanized to 5 microns
- Cap washer: polypropylene copolymer
- Legs: High impact polystyrene

Basic loading data (for a single anchor): HTB

All data in this section applies to

- Different kind of base material
- No edge distance and spacing influence
- Pre-setting

Characteristic resistance, R_k [kN]:

Base material	Anchor size	HTB M5 HTB M6
Gypsum board 10,0 mm	N_{Rk}	0,75
	V_{Rk}	0,45
Gypsum board 12,5 mm	N_{Rk}	1,20
	V_{Rk}	0,90
Gypsum board 2x12,5 mm	N_{Rk}	2,10
	V_{Rk}	0,90
Gypsum fibre board 10,0 mm	N_{Rk}	1,20
	V_{Rk}	1,80
Gypsum fibre board 12,5 mm	N_{Rk}	1,80
	V_{Rk}	3,00
Hollow decks Cavity to surface thickness ≥ 30,0 mm	N_{Rk}	1,50
	V_{Rk}	-
Hollow brick "Parpaing Creux B40"	N_{Rk}	1,35
	V_{Rk}	2,70

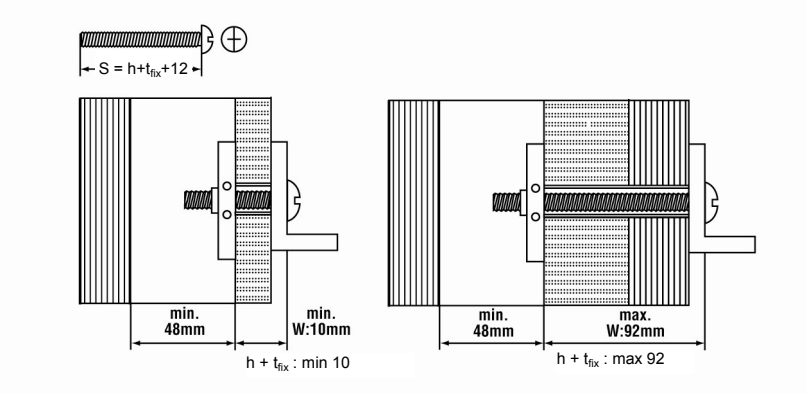
Design resistance, R_d [kN]:

Base material	Anchor size	HTB M5 HTB M6
Gypsum board 10,0 mm	N_{Rd}	0,35
	V_{Rd}	0,21
Gypsum board 12,5 mm	N_{Rd}	0,56
	V_{Rd}	0,42
Gypsum board 2x12,5 mm	N_{Rd}	0,98
	V_{Rd}	0,42
Gypsum fibre board 10,0 mm	N_{Rd}	0,56
	V_{Rd}	0,84
Gypsum fibre board 12,5 mm	N_{Rd}	0,84
	V_{Rd}	1,40
Hollow decks Cavity to surface thickness ≥ 30mm	N_{Rd}	0,70
	V_{Rd}	-
Hollow brick "Parpaing Creux B40"	N_{Rd}	0,63
	V_{Rd}	1,26

Recommended Load, L_{rec} [kN]:

Base material	Anchor size	HTB M5 HTB M6
Gypsum board 10,0 mm	N_{rec}	0,25
	V_{rec}	0,15
Gypsum board 12,5 mm	N_{rec}	0,40
	V_{rec}	0,30
Gypsum board 2x12,5 mm	N_{rec}	0,70
	V_{rec}	0,30
Gypsum fibre board 10,0 mm	N_{rec}	0,40
	V_{rec}	0,60
Gypsum fibre board 12,5 mm	N_{rec}	0,60
	V_{rec}	1,00
Hollow decks Cavity to surface thickness ≥ 30mm	N_{rec}	0,50
	V_{rec}	-
Hollow brick "Parpaing Creux B40"	N_{rec}	0,45
	V_{rec}	0,90

Setting details

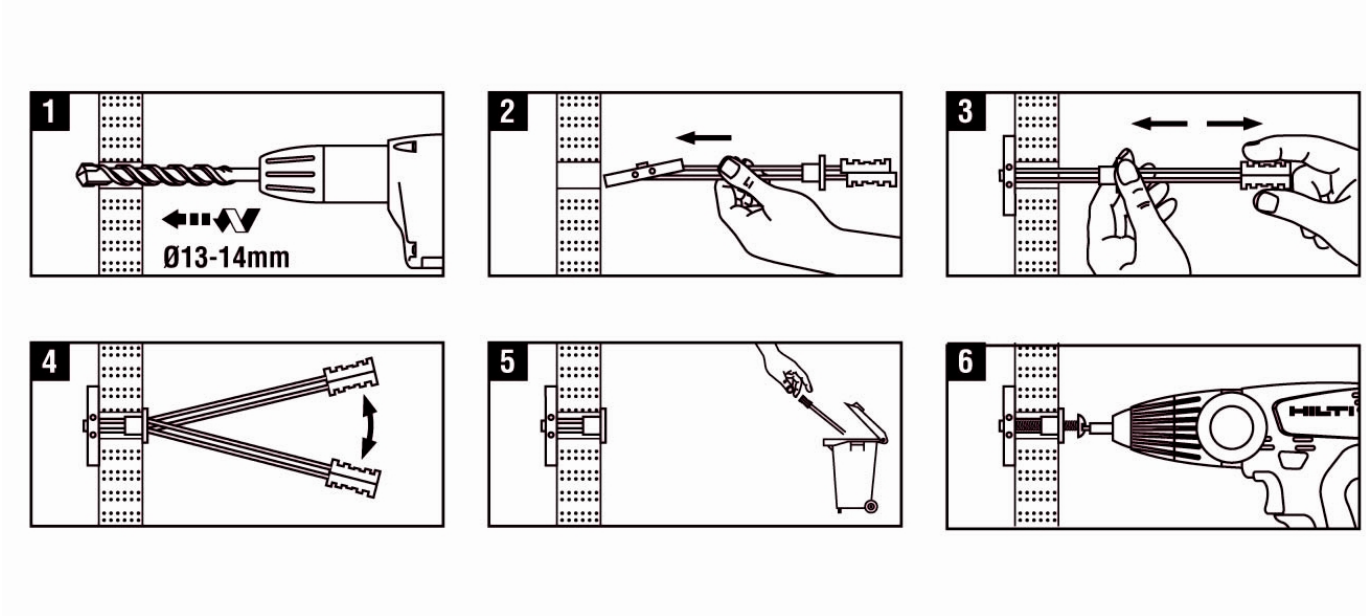


Setting details			HTB M5	HTB M6
d_0	[mm]	Drill bit diameter	13, 14	13, 14
S	[mm]	Screw length	12 + h + t_{fix}	12 + h + t_{fix}
d		Screw diameter	M5	M6
h + t_{fix}	[mm]	Wall + Fixture thickness	min. 10 – max. 92	min. 10 – max. 92
l	[mm]	Space of cavity	min. 48	min. 48
T_{inst}	[Nm]	Tightening torque	3	5

Installation equipment

Rotary hammer (TE1, TE2, TE5, TE6, TE6A, TE15…..) and a screwdriver (SF 100, SF 120, SF 121-A …)

Setting operations *



* Drill the hole in gypsum board and gypsum fibre board without hammering action or use the screwdriver with a twist drill.