



HUD-2 Plastic anchor

Economical universal plastic anchor

Anchor version



HUD-2
(5, 6, 8)

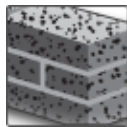
Benefits

- Flat setting
- Flexibility of screw length
- An anchor for every base material

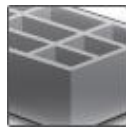
Base material



Concrete
(non-cracked)



Solid brick



Hollow brick



Autoclaved
aerated
concrete



Drywall

Materials

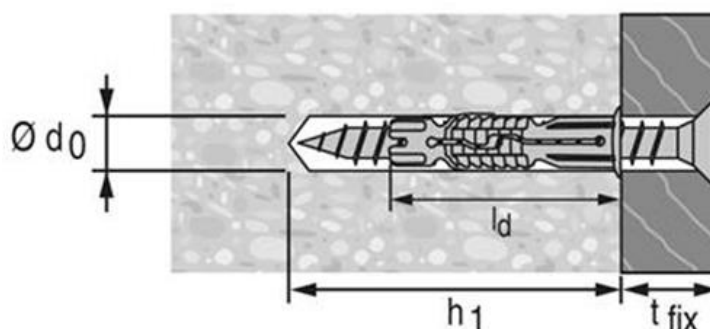
Material quality

Part	Material
Plastic sleeve	Polyamide 6

Setting information

Installation parameters

Anchor size			5x25	6x30	8x40
Service temperature range of the base material	[°C]		-40°C to 80°C, max. long term 50°C, max. short term 80°C		
Installation temperature	[°C]		-10°C to +40°C		
Embedment depth	h_{nom}	[mm]	25	30	40
Drill hole depth	h_0	[mm]	≥ 30	≥ 35	≥ 45
Cutting edge of the drill bit	d_{cut}	[mm]	≤ 5,4	≤ 6,4	≤ 8,45
Nominal diameter of drill bit	d_0	[mm]	5	6	8
Minimum spacing	s_{min}	[mm]	Not determined		
Minimum edge distance	c_{min}	[mm]	Not determined		



Technical data

The technical data only applies for the use with chipboard screw given below. The screw shall exceed the plastic sleeve by ≥ 5 mm. The recommended drilling methods needs to be considered. For masonry, AAC and drywall the values apply to the tested types. The technical data are given in the following tables. Following material safety factors are considered:

Concrete: $\gamma_M = 1,8$
Masonry: $\gamma_M = 2,5$

AAC: $\gamma_M = 2,0$
Drywall: $\gamma_M = 2,5$

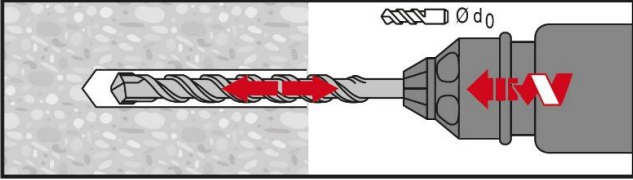
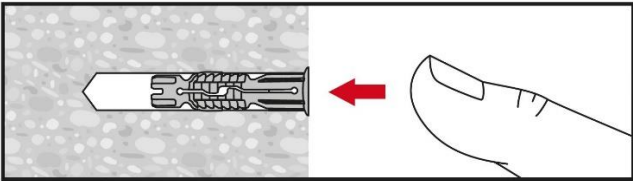
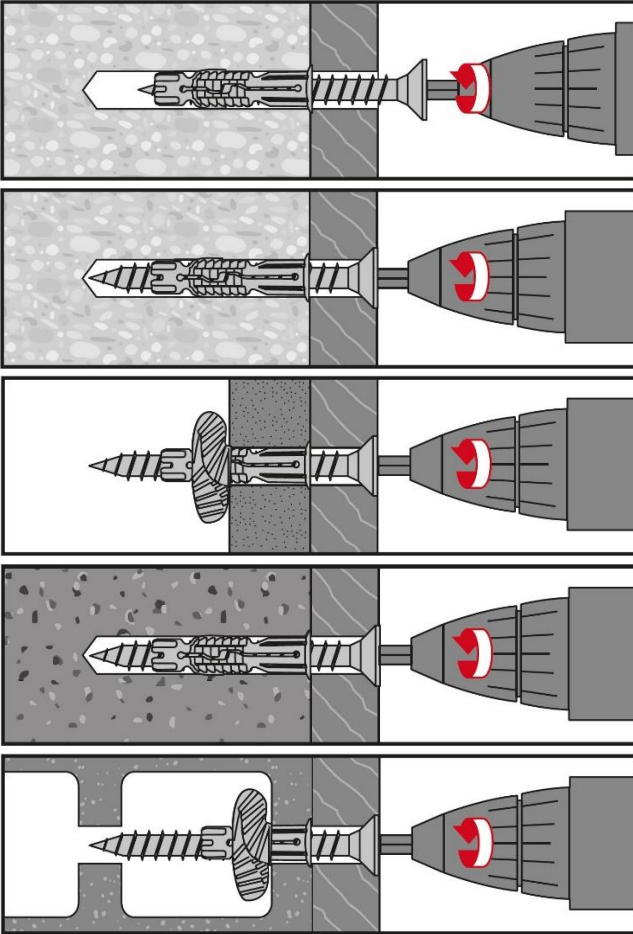
The load F applies in all directions for the given combination of screws and base material.

Technical data HUD-2

Base material	Drilling mode	Load	HUD-2 5x25	HUD-2 6x30	HUD-2 8x40
			Chipboard screw 4x40	Chipboard screw 5x50	Chipboard screw 6x50
Concrete, uncracked Strength \geq C16/20	hammer	F_{Rk}	0,60	1,2	2,5
		F_{Rd}	0,33	0,67	1,4
		F_{rec}	0,24	0,48	1,0
Solid clay brick Name: Mauerziegel MZ Manuf.: Ziegelwerk Klosterbeuren Size : NF Strength: ≥ 20	hammer	F_{Rk}	0,60	0,90	2,50
		F_{Rd}	0,24	0,36	1,00
		F_{rec}	0,17	0,26	0,71
Hollow clay brick Name: ThermoPlan Planziegel-TS ² 1,2 Manuf.: Ziegelwerk Klosterbeuren Size : 373x175x249 mm Strength class: ≥ 12	rotary	F_{Rk}	0,60	0,80	1,20
		F_{Rd}	0,24	0,32	0,48
		F_{rec}	0,17	0,23	0,34
Autoclaved aerated concrete Name: AAC 4 Manuf.: Ytong Size : 625x250x250 mm Strength: ≥ 6	rotary	F_{Rk}	0,30	0,60	0,90
		F_{Rd}	0,15	0,30	0,45
		F_{rec}	0,11	0,21	0,32
Drywall, single layer 12,5 Name: Bauplatte Manuf.: Knauff Size : 2000x1250x12,5 mm	rotary	F_{Rk}	0,15	0,15	0,15
		F_{Rd}	0,06	0,06	0,06
		F_{rec}	0,04	0,04	0,04
Drywall, double layer 2x12,5 Name: Bauplatte Manuf.: Knauff Size : 2000x1250x12,5 mm	rotary	F_{Rk}	0,20	0,25	0,40
		F_{Rd}	0,08	0,10	0,16
		F_{rec}	0,06	0,07	0,11
Fibre reinf. drywall, single layer 12,5 Name: Vidiwall Manuf.: Knauff Size : 1250x1000x12,5 mm	rotary	F_{Rk}	0,50	0,60	0,60
		F_{Rd}	0,20	0,24	0,24
		F_{rec}	0,14	0,17	0,17
chipboard screw 4x40: outer diameter 3,9 mm, core diameter 2,4 mm chipboard screw 5x50: outer diameter 4,8 mm, core diameter 2,9 mm chipboard screw 6x50: outer diameter 5,8 mm, core diameter 3,8 mm					

Setting instruction^{a)}

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

Setting instruction	
	1. Drill hole with drill bit
	2. Install anchor
	3. Drive screw into anchor

a) Use only for wall and floor applications. Not applicable for ceiling and façade applications.