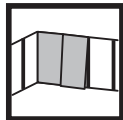


## HHD-S Cavity anchor

	Anchor version	Benefits
	HHD-S	<ul style="list-style-type: none"> <li>- metal undercut anchor with metric screw, esp. for drywall</li> <li>- metal to metal fastening</li> <li>- reliable undercut</li> </ul>



drywall

### Basic loading data (for a single anchor)

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
- Borehole drilling without hammering

### Recommended loads <sup>a)</sup>

Anchor size		M4	M5	M6	M8
Hollow brick web thickness 20mm	$N_{rec}$ [kN]	0,1	-	-	-
	$V_{rec}$ [kN]	0,3	-	-	-
Gypsum board Thickness 10mm	$N_{rec}$ [kN]	0,2	0,2	0,2	0,2
	$V_{rec}$ [kN]	0,5	0,5	0,5	0,5
Gypsum board Thickness 12,5mm	$N_{rec}$ [kN]	0,2	0,2	0,2	0,2
	$V_{rec}$ [kN]	0,5	0,5	0,5	0,5
Gypsum board Thickness 2x12,5mm	$N_{rec}$ [kN]	-	0,4	0,3	0,4
	$V_{rec}$ [kN]	-	1	0,9	1
Fibre reinforced gypsum board Thickness 10mm	$N_{rec}$ [kN]	0,2	0,3	0,25	0,4
	$V_{rec}$ [kN]	0,5	0,6	0,8	0,9
Fibre reinforced gypsum board Thickness 12,5mm	$N_{rec}$ [kN]	0,3	0,5	0,3	0,6
	$V_{rec}$ [kN]	0,6	1	1	1,2
Fibre reinforced gypsum board Thickness 2x12,5mm	$N_{rec}$ [kN]	-	0,9	0,8	0,9
	$V_{rec}$ [kN]	-	1,1	1,8	1,7

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

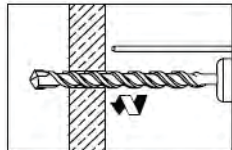
Part	Material
Sleeve	Carbon steel, galvanised
Screw	Carbon steel, galvanised

### Setting

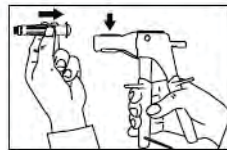
#### Installation equipment

Anchor size	
Rotary hammer	TE2... TE16
Other tools	Screwdriver, HHD-SZ2 expansion tool

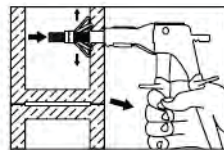
#### Setting instruction



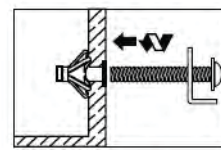
Drill hole with drill bit.



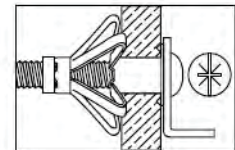
Put anchor into setting tool.



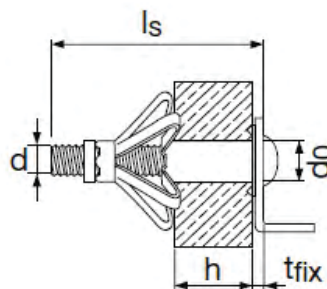
Install anchor with setting tool.



Remove screw from anchor and screw in gain with part being fastened attached.



#### Setting details:



#### Setting details HHD-S

Anchor version		M4/4	M4/6	M4/12	M4/19	M5/8	M5/12	M5/25
Nominal diameter of drill bit	$d_o$ [mm]	8	8	8	8	10	10	10
Anchor length	$l$ [mm]	20	32	38	45	38	52	65
Anchor neck length	$h$ [mm]	4	6	12,5	19	8	12,5	25
Screw length	$l_s \geq$ [mm]	25	39	45	52	45	58	71
Screw diameter	$d$	M4	M4	M4	M4	M5	M5	M5
Panel thickness	$h_{min,max}$ [mm]	3 - 4	6 - 7	10 - 13	18 - 20	6 - 8	11 - 13	23 - 25
Max. fixable thickness for pre-setting	$t_{fix}$ [mm]	15	25	25	25	25	30	30

Anchor version		M6/9	M6/12	M6/24	M6/40	M8/12	M8/24	M8/40
Nominal diameter of drill bit	$d_o$ [mm]	12	12	12	12	12	12	12
Anchor length	$l$ [mm]	38	52	65	80	54	66	83
Anchor neck length	$h$ [mm]	9	12,5	25	40	12,5	25	40
Screw length	$l_s \geq$ [mm]	45	58	71	88	60	72	90
Screw diameter	$d$	M6	M6	M6	M6	M8	M8	M8
Panel thickness	$h_{min,max}$ [mm]	7 - 9	11 - 13	23 - 25	38 - 40	11 - 13	23 - 25	38 - 40
Max. fixable thickness for pre-setting	$t_{fix}$ [mm]	20	30	30	30	30	30	35