
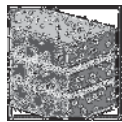


## HT Metal frame anchor

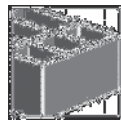
	Anchor version	Benefits
	HT	<ul style="list-style-type: none"> <li>- fastening door and window frames</li> <li>- no risk of distortion or forces of constraint</li> <li>- expansion cone can not be lost</li> </ul>



Concrete



Solid brick



Hollow brick

Autoclaved  
aerated  
concreteFire  
resistance

### Approvals / certificates

Description	Authority / Laboratory	No. / date of issue
Fire test report	IBMB, Braunschweig	UB 3016/1114-CM / 2006-03-13
Assessment report (fire)	warringtonfire	WF 166402 / 2007-10-26

### 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
- Non-cracked concrete:  $f_{cc} \geq 20 \text{ N/mm}^2$
- Minimum base material thickness

#### Characteristic resistance

		HT 8	HT10
Concrete, $f_{cc} = 30 \text{ N/mm}^2$	$N_{Rk}$ [kN]	4,2	5,0
	$V_{Rk}$ [kN]	6,6	7,0
Aerated Concrete PP2 <sup>a)</sup>	$N_{Rk}$ [kN]	-	0,3
	$V_{Rk}$ [kN]	-	0,5
Solid brick Mz 12	$N_{Rk}$ [kN]	1,8	2,6
	$V_{Rk}$ [kN]	-	5,0
Sand-lime solid brick, KS 12	$N_{Rk}$ [kN]	1,8	2,6
	$V_{Rk}$ [kN]	-	5,0
Sand-lime hollow brick, KSL	$N_{Rk}$ [kN]	-	1,5
	$V_{Rk}$ [kN]	-	0,5

a) Rotary drilling only

### Recommended loads

		HT 8	HT10
Concrete, $f_{cc} = 30 \text{ N/mm}^2$	$N_{rec}$ [kN]	1,4	1,7
	$V_{rec}$ [kN]	0,5	0,5
Aerated Concrete PP2 <sup>a)</sup>	$N_{rec}$ [kN]	-	0,1
	$V_{rec}$ [kN]	-	0,15
Solid brick Mz 12	$N_{rec}$ [kN]	0,6	0,8
	$V_{rec}$ [kN]	-	0,5
Sand-lime solid brick, KS 12	$N_{rec}$ [kN]	0,6	0,8
	$V_{rec}$ [kN]	-	0,5
Sand-lime hollow brick, KSL	$N_{rec}$ [kN]	-	0,5
	$V_{rec}$ [kN]	-	0,15

a) Rotary drilling only

### Materials

#### Material quality

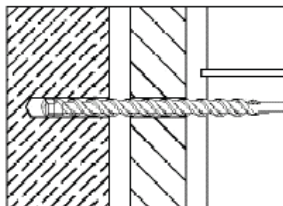
Part	Material
Bolt	steel strength 4.8, zinc plated to 5 $\mu\text{m}$
Sleeve	steel 02 DIN 17162, sendzimir zinc plated to 20 $\mu\text{m}$

### Setting

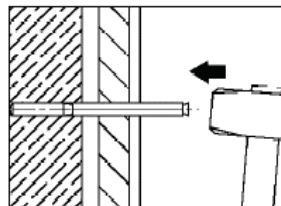
#### installation equipment

Anchor size	
Rotary hammer	TE1 – TE16
Other tools	hammer, screwdriver

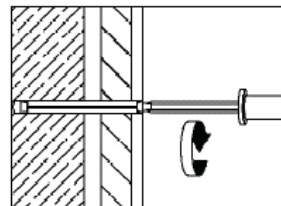
#### Setting instruction



Drill hole with drill bit.

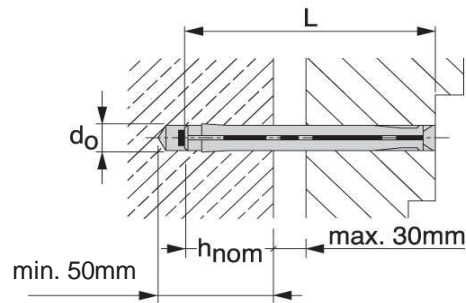


Install anchor.



Drive screw into anchor.

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

Setting details: anchor length  $L$  and anchorage depth  $h_{nom}$ 

## Setting details HT

		HT 8	8x72	8x92	8x112
Nominal diameter of drill bit	$d_o$	[mm]	8	8	8
Depth of drill hole	$h_1$	[mm]	50	50	50
Anchorage depth	$h_{nom}$	[mm]	30	30	30
Anchor length	$L$	[mm]	72	92	112
Torque moment	$T_{inst}$	[Nm]	4	4	4
Minimum base material thickness	$h_{min}$	[mm]	100	100	100
Drill bit			TE-CX-8/17		TE-CX-8/22

		HT 8	8x132	8x152	8x182
Nominal diameter of drill bit	$d_o$	[mm]	8	8	8
Depth of drill hole	$h_1$	[mm]	50	50	50
Anchorage depth	$h_{nom}$	[mm]	30	30	30
Anchor length	$L$	[mm]	132	152	182
Torque moment	$T_{inst}$	[Nm]	4	4	4
Minimum base material thickness	$h_{min}$	[mm]	100	100	100
Drill bit			TE-CX-8/22	TE-CX-8/27	

		HT 10	10x72	10x92	10x112
Nominal diameter of drill bit	$d_o$	[mm]	10	10	10
Depth of drill hole	$h_1$	[mm]	50	50	50
Anchorage depth	$h_{nom}$	[mm]	30	30	30
Anchor length	$L$	[mm]	72	92	112
Torque moment	$T_{inst}^{a)}$	[Nm]	8/4	8/4	8/4
Minimum base material thickness	$h_{min}$	[mm]	100	100	100
Drill bit			TE-C-10/17		TE-C-10/22

a) First value: solid base material, second value: hollow base material

		HT 10	10x132	10x152	10x182	10x202
Nominal diameter of drill bit	$d_o$	[mm]	10	10	10	10
Depth of drill hole	$h_1$	[mm]	50	50	50	50
Anchorage depth	$h_0$	[mm]	30	30	30	30
Anchor length	L	[mm]	132	152	182	202
Torque moment	$T_{inst}^{a)}$	[Nm]	8/4	8/4	8/4	8/4
Minimum base material thickness	$h_{min}$	[mm]	100	100	100	100
Drill bit			TE-C-10/22	TE-C-10/27	TE-C-10/37	

a) First value: solid base material, second value: hollow base material