HT

METAL LIGHT DUTY

Technical Datasheet

Update: Jan-23

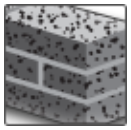
HT Light duty metal anchors

Economical metal frame anchor

Anchor version	Benefits
 HT (M8-M10)	- Fastening door and window frames - No risk of distortion or forces of constraint - Expansion cone cannot be lost

Base material


Concrete (non-cracked)


Solid brick


Hollow brick


Autoclaved aerated concrete

Load conditions


Fire 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 327804/A / 2013-07-10

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: $f_{cc} \geq 20$ N/mm²
- Minimum base material thickness

Anchorage depth

Anchor size			HT 8	HT 10
Nominal embedment depth	h_{nom}	[mm]	30	30

Characteristic resistance

Anchor size			HT 8	HT 10
Concrete, f_{cc}=30 N/mm²	N_{Rk}	[kN]	4,2	5,0
	V_{Rk}	[kN]	6,6	7,0
Aerated concrete PP2[a)]	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

Anchor size			HT 8	HT 10
Concrete, f_{cc}=30 N/mm²	N_{Rec}	[kN]	1,4	1,7
	V_{Rec}	[kN]	0,5	0,5
Aerated concrete PP2[a)]	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 µm
Sleeve	Steel 02 DIN 17162, sendzimir zinc plated to 20 µm

Setting information

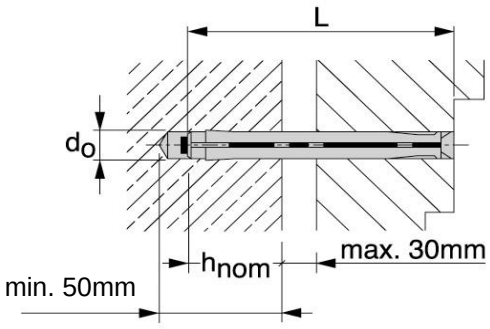
Setting details

Anchor size		HT 8	8x72	8x92	8x112	8x132	8x152	8x182
Nominal diameter of drill bit	d_0	[mm]	8	8	8	8	8	8
Depth of drill hole	h_1	[mm]	50	50	50	50	50	50
Nominal embedment depth	h_{nom}	[mm]	30	30	30	30	30	30
Anchor length	L	[mm]	72	92	112	132	152	182
Torque moment	T_{inst}[a)]	[Nm]	100	100	100	100	100	100
Minimum base material thickness	h_{min}	[mm]	4	4	4	4	4	4
Drill bit			TE-CX-8/17		TE-CX-8/22		TE-CX-8/27	

Setting details

Anchor size		HT 10	10x72	10x92	10x112	10x132	10x152	10x182	10x202
Nominal diameter of drill bit	d_0	[mm]	10	10	10	10	10	10	10
Depth of drill hole	h_1	[mm]	50	50	50	50	50	50	50
Nominal embedment depth	h_{nom}	[mm]	30	30	30	30	30	30	30
Anchor length	L	[mm]	72	92	112	132	152	182	202
Torque moment	T_{inst}[a)]	[Nm]	100	100	100	10	10	10	10
Minimum base material thickness	h_{min}	[mm]	8/4	8/4	8/4	8/4	8/4	8/4	8/4
Drill bit			TE-C-10/17		TE-C-10/22		TE-C-10/27		TE-C-10/37

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



Installation equipment

Anchor size	HT 8	HT 10
Rotary hammer	TE1-TE16	
Other tools	hammer, screwdriver	

Setting instruction

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

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