

HAM Hard sleeve anchor

	Anchor version	Benefits
	HAM with steel	- secure fastenings in various base materials - cone attached to sleeve to ensure
	strength 8.8 screw	pre-setting
		- wings to prevent spinning in the borehole
372 - 734	HAM	- plastic cap in cone to prevent dust entrance
		- blue-chromate zinc coating
		- 8.8 steel strength of screw





Concrete

Solid brick

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
- Concrete as specified in the table
- Steel failure
 - Minimum base material thickness
- Concrete C 20/25, f_{ck,cube} = 25 N/mm²

Recommended Loads in uncracked concrete C20/25

Thread Diameter	d	[mm]	M6x50	M8x60	M10x80	M12x90
Tension	N_{rec}	[kN]	4,0	4,8	5,8	8,7
Shear	V_{rec}	[kN]	4,6	8,4	13,3	19,3

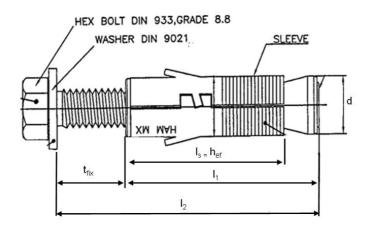
Recommended Loads in solid brick

Thread Diameter	d	[mm]	M6x50	M8x60	M10x80	M12x90		
Tension	N _{rec}	[kN]	For solid brick, load values need to be determined on the					
Shear	V_{rec}	[kN]	building site					

Materials

Part		Material
Sleeve HAM Anchor Hex head Bolt		Carbon steel
		Carbon steel DIN 933, Strength 8.8
	Washer	Carbon steel, DIN 9021





Anchor dimensions

Anchor version	Anchor	h _{ef} [mm]	d [mm]	l _s [mm]	l ₁ [mm]	l ₂ [mm]	t _{fix} [mm]
НАМ	M6 x 50	30	12	30	40	50	10
	M8 x 60	35	14	35	50	60	10
	M10 x 80	43	16	43	60	80	20
	M12 x 90	55	19	55	70	90	20

Setting

Installation equipment

Anchor size		M6x50	M8x60	M10x80	M12x90		
Rotary hammer		TE 2 – TE 16					
Drill bit	12	12 14 16 20					
Other tools	·	hammer, torque wrench, blow out pump					

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

Setting details for HAM with 8.8 screw

Thread Diameter	d	[mm]	M6x50	M8x60	M10x80	M12x90
Nominal diameter of drill bit	d _o	[mm]	12	14	16	20
Cutting diameter of drill bit	d _{cut} ≤	[mm]	12,5	14,5	16,5	20,55
Depth of drill hole	h ₁ ≥	[mm]	65	80	90	110
Width across nut flats	SW	[mm]	10	13	17	19
Diameter of clearance hole in the fixture	d _f ≤	[mm]	7	9	12	14
Max. torque moment concrete	T _{inst}	[Nm]	10	25	45	75
Max. torque moment masonry	T _{inst}	[Nm]	5	10	20	30