



HA 8

METAL LIGHT DUTY



Technical Datasheet


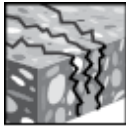
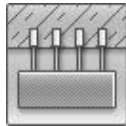

Update: Jan-23



HA 8 Light duty metal anchors

Hook and ring anchor

Anchor version		Benefits
	HA 8 R1	<ul style="list-style-type: none"> - 8 mm anchor for concrete ceilings - Hand-setting - Follow-up expansion
	HA 8 H1	

Base material			Load conditions
			
Concrete (non-cracked)	Concrete (cracked)	Redundant fastening	Fire resistance

Approvals/certificates

Description	Authority / Laboratory	No. / date of issue
Fire test report	IBMB, Braunschweig	UB 3245/1817-5 / 1997-12-12
Assessment fire report	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
- Only for redundant fastening
- Values are only valid for tensile loading
- Concrete C20/25 ($f_{ck,cube} = 25 \text{ N/mm}^2$) - C50/60 ($f_{ck,cube} = 60 \text{ N/mm}^2$)

Recommended loads

Concrete		Non-cracked	Cracked ^{a)}
Tensile	N_{rec} [kN]	0,8	0,8

a) Redundant fastening

Materials

Mechanical properties of HA 8

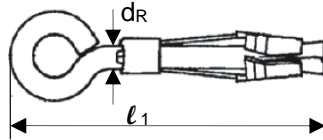
Anchor size		HA 8 expansion sleeve	HA 8 bolt
Nominal tensile strength	f_{uk} [N/mm ²]	370	460
Yield strength	f_{yk} [N/mm ²]	270	220

Material quality

Part	Material
Expansion sleeve	Carbon steel, galvanized to min. 5 μm
Bolt	Carbon steel, galvanized to min. 5 μm

Anchor dimensions

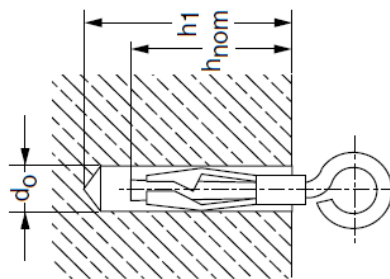
Anchor size		HA 8
Bolt diameter	d_R [mm]	5
Length of the anchor	l_1 [mm]	66



Setting information

Setting details

Anchor size		HA 8
Nominal diameter of drill bit	d_o [mm]	8
Cutting diameter of drill bit	$d_{cut} \leq$ [mm]	8,45
Depth of drill hole	$h_1 \geq$ [mm]	50
Effective anchorage depth	h_{ef} [mm]	40



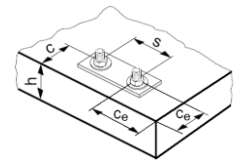


Installation equipment

Anchor size	HA 8
Rotary hammer	TE2 – TE16
Other tools	Hammer, blow out pump

Setting parameters

Anchor size	HA 8
Minimum base material thickness h_{min} [mm]	100
Minimum spacing s [mm]	200
Minimum edge distance c [mm]	100
Minimum edge distance at the corner c_e [mm]	150



Setting instruction

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

Setting instruction for HA 8			
1. Drill hole with drill bit 	2. Blow out dust and fragments 	3. Install anchor 	4. Pull to expand the anchor