


## HCA Coil anchor

	Anchor version	Benefits
	HCA 5/8"	<ul style="list-style-type: none"> <li>- re-usable (up to 5 times with 30% load reduction)</li> <li>- high load capacity</li> <li>- big washer: <math>\varnothing</math> 34 mm</li> <li>- for temporary external applications</li> <li>- removable</li> </ul>



Concrete

### 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

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

		Concrete C 20/25		Young concrete $f_{ck,cube} \geq 14 \text{ N/mm}^2$	
Anchor version	HCA	5/8" x 3 1/2"	5/8" x 5"	5/8" x 3 1/2"	5/8" x 5"
Tensile $N_{rec}$	[kN]	6,9	13,7	5,2	10,2
Shear $V_{rec}$	[kN]	19,4	38,4	14,5	28,7

a) With overall global safety factor  $\gamma \geq 3$  to the characteristic loads and  $\gamma \geq 4$  to the mean ultimate loads.

## Materials

### Material quality

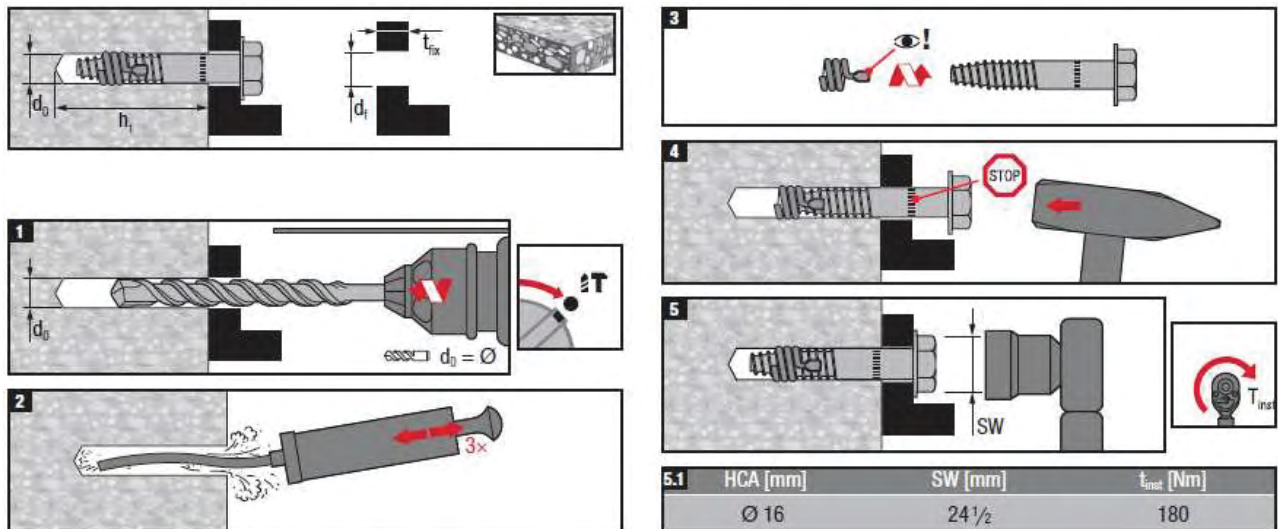
Material
Carbon steel, galvanised

## Setting

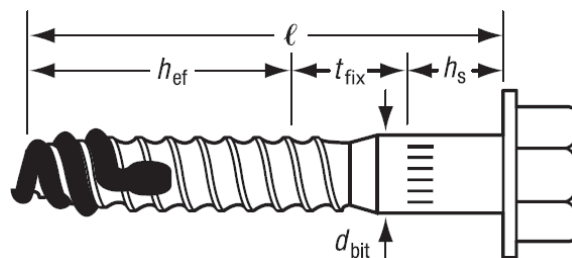
### Installation equipment

Rotary hammer	TE2... TE30
Other tools	hammer, torque wrench, blow out pump

### Setting instruction



### Setting details:



### Setting details HCA

Anchor version		HCA 5/8" x 3 1/2"	HCA 5/8" x 5"
Nominal diameter of drill bit	$d_o$ [mm]	16	
Cutting diameter of drill bit	$d_{cut} \leq$ [mm]	16,5	
Diameter of clearance hole in the fixture	$d_f \leq$ [mm]	18	
Anchor length	$l$ [mm]	90	130
Marking for correct installation	$h_s$ [mm]	19	
Thickness of fixture	$t_{fix}$ [mm]	0 ... 11	0 ... 13
Depth of drill hole	$h_1 \geq$ [mm]	$95 \text{ mm} - t_{fix}$	$135 \text{ mm} - t_{fix}$
Effective anchorage depth	$h_{ef}$ [mm]	60	98
Torque moment	$T_{inst}$ [Nm]	180	
Width across	SW [mm]	24,5	
Minimum base material thickness	$h_{min}$ [mm]	$2 h_{ef}$	
Minimum spacing	$s_{min}$ [mm]	$3 h_{ef}$	
Minimum edge distance for single anchor	$c_{min}^{(1)}$ [mm]	$5 h_{ef}$	
Minimum edge distance for group of two anchors	$c_{min}^{(2)}$ [mm]	$10 h_{ef}$	