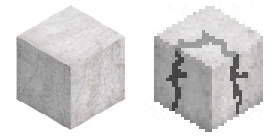


# HIGH LOAD SAFETY BOLT COUNTERSUNK HEAD VERSION

**HVE03**



## FEATURES

**Material :**  
Steel

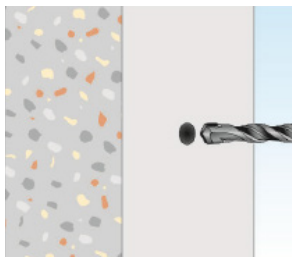
**Advantages :**

- Easy and fast installation through the fixture

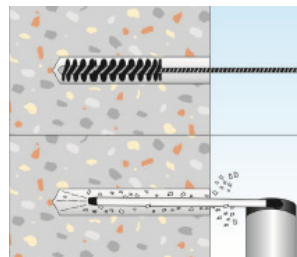
## APPLICATION EXAMPLES

- For fixing metal profiles, railings, beams steel cladding brackets, industrial racking, consoles, cable trays....
- Industrial doors and gates

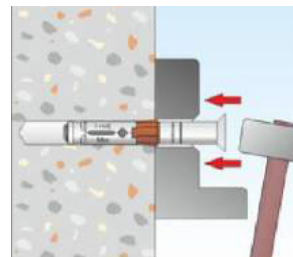
## INSTALLATION



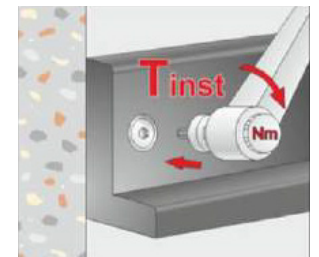
Drill the hole



Remove the dust from the hole with an air pump



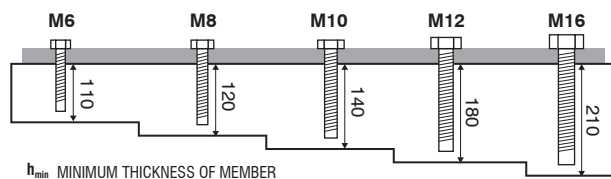
Put the Anchor into the hole through the fixture



Apply required torque

## INSTALLATION DATAS

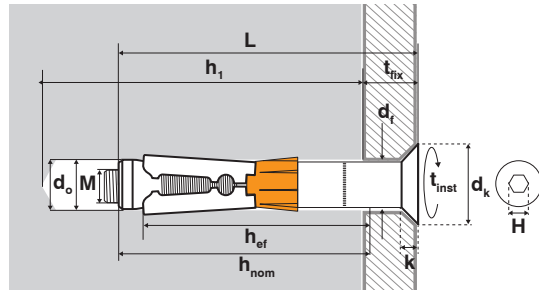
	M6	M8	M10	M12	M16	
$S_{min}$	55	110	80	135	130	MINIMUM SPACING
$C_{min}$	70	100	90	175	180	MINIMUM EDGE DISTANCE



# DIMENSIONS & APPLICATION DATAS

Type	M	L	t <sub>fix</sub>	Reference
		mm	mm	
<b>HVE M6</b>	M6	85	20	<b>HVE03-10/20</b>
		100	35	<b>HVE03-10/40</b>
		125	60	<b>HVE03-10/60</b>
<b>HVE M8</b>	M8	82	15	<b>HVE03-12/15</b>
		105	35	<b>HVE03-12/35</b>
		125	55	<b>HVE03-12/55</b>
<b>HVE M10</b>	M10	110	30	<b>HVE03-16/30</b>
		130	50	<b>HVE03-16/50</b>
<b>HVE M12</b>	M12	120	20	<b>HVE03-18/20</b>
		140	40	<b>HVE03-18/40</b>

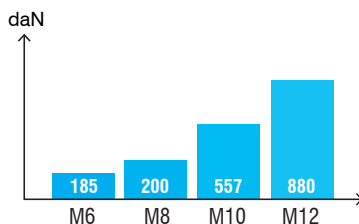
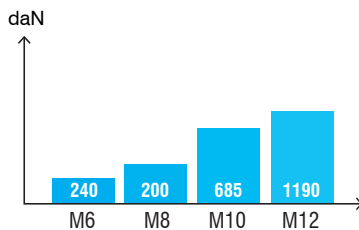
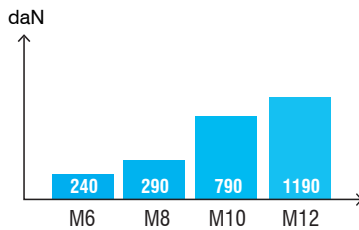
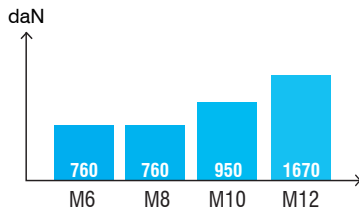
		M6	M8	M10	M12
Anchor length	h <sub>ef</sub>	55	60	70	90
Ø drill hole	d <sub>o</sub>	10	12	16	18
Min. drilling depth	h <sub>1</sub>	80	90	100	120
Overall anchor embedment depth	h <sub>nom</sub>	65	70	80	100
Ø clearance hole in the fixture	d <sub>f</sub>	12	14	18	20
Countersunk head diameter	d <sub>k</sub>	16	20	26	30
Countersunk head thickness	K	3.4	4.5	5.6	6.6
Required torque moment (N.m)	T <sub>inst</sub>	15	30	50	100
Hex drive	H	4	5	6	8



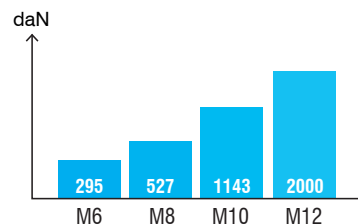
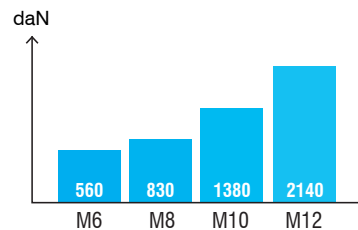
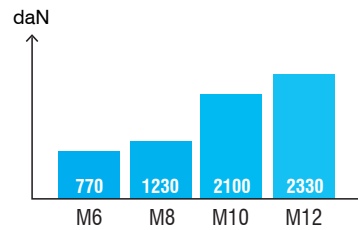
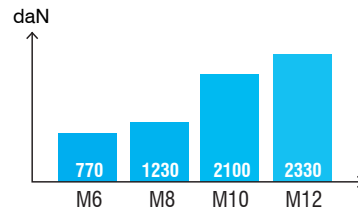
## RECOMMENDED LOADS

Loads are calculated from published characteristic values in the ETA on which partial safety factors from the ETAG001 and a partial coefficient action  $\gamma_f = 1.4$  are applied. Values are given for standard embedment depth for non-cracked concrete C20 / 25.

### TENSILE



### SHEAR



For accurate loads and implementation data, requirements specified in the ETA 10/0060 must be respected as well as the installation guide.