

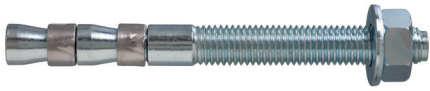


non cracked  
concrete

# Vorpa VE

Steel anchor

products group



### Suitable for

- concrete

### To fix

- steel beams
- machineries
- sections
- plates
- heavy structural works
- plants engineering
- railings and balustrades
- gates, stairs
- profiles



Test report available

product information

### Characteristics

- through steel anchor composed of steel pin, nut, washer and two steel expansion clip
- reduced hole diameter
- suitable for through-setting applications in concrete
- thread diameter and hole diameter are the same
- reinforced anchor's head to avoid damaging the thread during the installation
- minimum slippage due to powerfull expansion when tightening
- fast setting also thanks to pre-mounted nut and washer

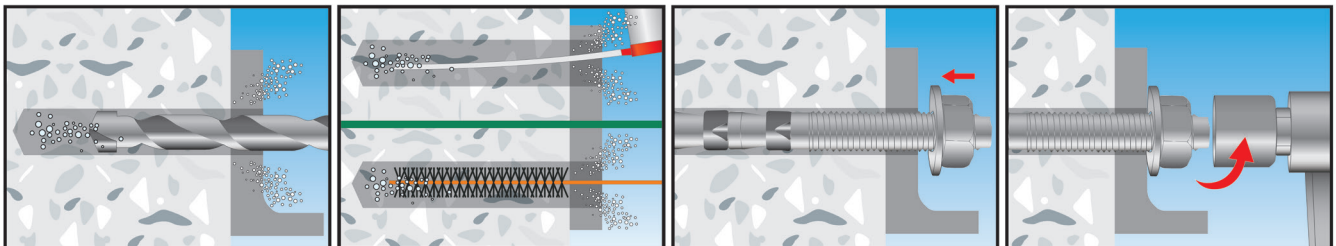
### Installation

- through-setting anchor

### Suggestion for use

- choose the right size of the anchor according to the load
- always check load bearing capacity values in the table
- respect the installation data
- **clean the hole before the installation**

installation sequence



### Examples of applications



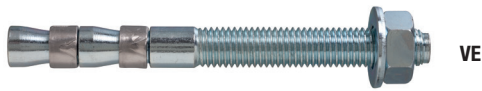
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Steel anchor

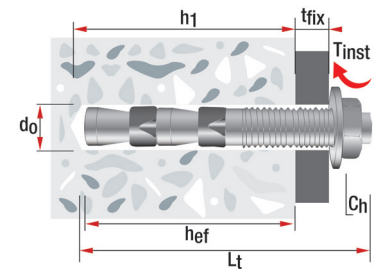


non cracked concrete

product code and technical data



Code	Description	$L_t$ mm	L. Thread mm	$d_o$ mm	$h_1$ mm	$t_{fix}$ max mm	$T_{inst}$ Nm	Ch
601	VE 6/5-45	45	19	6	35	5	10	10
602	VE 6/15-65	65	39	6	45	15	10	10
603	VE 6/40-100	100	74	6	55	40	10	10
604	VE 8/5-55	55	20	8	40	5	20	13
605	VE 8/10-75	75	40	8	60	10	20	13
599	VE 8/25-90	90	55	8	55	25	20	13
606	VE 8/50-115	115	75	8	55	50	20	13
607	VE 10/10-65	65	26	10	45	10	45	17
608	VE 10/20-90	90	42	10	60	20	45	17
609	VE 10/40-120	120	71	10	70	40	45	17
610	VE 12/5-75	75	27	12	60	5	65	19
611	VE 12/15-110	110	45	12	85	15	65	19
612	VE 12/25-145	145	90	12	110	25	65	19
613	VE 12/80-180	180	90	12	90	80	65	19
614	VE 14/15-110	110	45	14	85	15	85	22
615	VE 14/25-145	145	75	14	110	25	85	22
600	VE 16/10-110	110	46	16	85	10	115	24
616	VE 16/25-145	145	78	16	105	25	115	24
589	VE 16/55-175	175	81	16	105	55	115	24
617	VE 16/100-220	220	96	16	105	100	115	24



- $L_t$  = Anchor length
- $h_{ef}$  = Effective anchorage depth
- $d_o$  = Hole diameter
- $h_1$  = Min. hole depth
- $t_{fix}$  = Fixture thickness
- $T_{inst}$  = Torque
- Ch = Spanner

Examples of applications



VE

			VE M6	VE M8	VE M10	VE M12	VE M14	VE M16	VE M20
Critical axial spacing	$S_{cr}$	mm	180	190	220	300	340	380	440
Critical edge distance	$C_{cr}$	mm	70	80	100	120	150	170	240
Minimum axial spacing	$S_{min}$	mm	90	95	110	150	170	190	220
Minimum edge distance	$C_{min}$	mm	35	40	50	60	75	85	105
Minimum structural thickness	$h_{min}$	mm	100	100	100	150	180	180	210

Permissible loads - applications in concrete C20/25									1 daN = 1 kg
VE	daN	250	380	520	800	850	1400	1750	

- Always respect the installation parameters
- In case of axial spacings or edge distances are inferior than the critical ones, it is recommended to reduce the application load
- The table shows the permissible loads for tension, shear and combined tension and shear loads