



concrete



natural
stone



solid brick

products group



VN B flanged body
no accessories



VN A
with chipboard screw



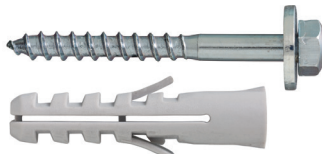
VN 4
with zincplated hook



VN
no accessories



VN C
with chipboard screw



VN T
with hexagonal head screw
and washer

Suitable for

- concrete
- natural stone
- solid brick

To fix

- light carpentry
- curtains slide guides
- bath accessories
- lamps, paintings
- post boxes
- satellite dishes
- wall cupboards
- motion sensors
- information boards

product information

Characteristics

- anti-rotation nylon plug 2 way expansion
- fast and simple installation
- temperature resistant from -40°C to +80°C
- the anti-rotation lock prevents the plug rotation in the drill hole
- high level of installation safety
- possibility to direct the expansion forces to let them run parallel to the edge of the building material
- to be used with wood and chipboard screws

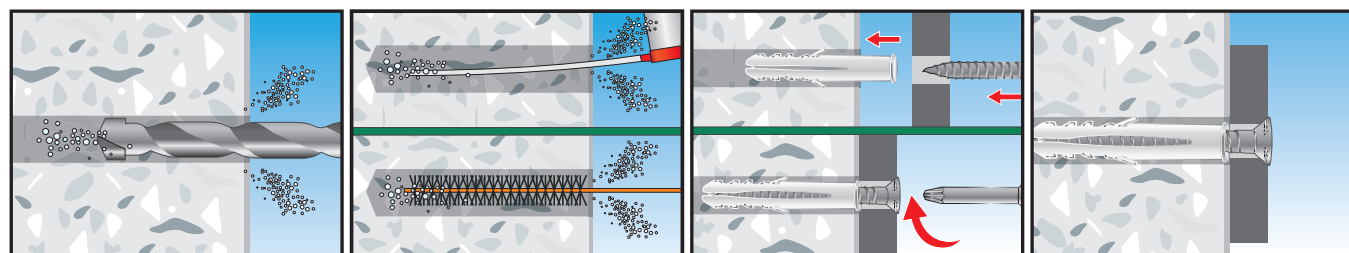
Installation

- to be mounted aligned the wall

Suggestion for use

- always consider an appropriate safety factor
- check load bearing capacity values
- respect the installation data
- **clean the hole before the installation**

installation sequence



Examples of applications





concrete

natural
stone

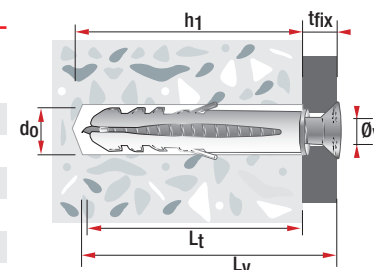
solid brick

product code and technical data

VN B flanged body
no accessoriesVN
no accessories

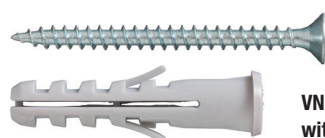
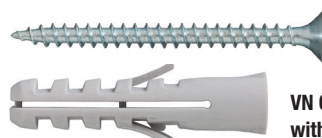
Code	Description		$d_0 \times L_t$ mm	h_1 mm	$\varnothing_v$ mm
435	VN B flanged body	5	5 x 26	35	3÷4
436	VN B flanged body	6	6 x 31	40	4÷5
437	VN B flanged body	8	8 x 41	55	4,5÷6
438	VN B flanged body	10/50	10 x 51	70	6÷8
438S	VN B flanged body	10/60	10 x 61	80	6÷8
439	VN B flanged body	12	12 x 61	75	8÷10

649	VN nylon plug	4	4 x 20	25	2÷3
630	VN nylon plug	5	5 x 25	35	3÷4
631	VN nylon plug	6	6 x 30	40	4÷5
648	VN nylon plug	7	7 x 30	40	4÷5
632	VN nylon plug	8	8 x 40	55	4,5÷6
633	VN nylon plug	10/50	10 x 50	70	6÷8
3633	VN nylon plug	10/60	10 x 60	80	6÷8
634	VN nylon plug	12	12 x 60	75	8÷10
635	VN nylon plug	14	14 x 75	85	10÷12
654	VN nylon plug	16	16 x 80	90	12÷14



L_t = Plug length
 h_1 = Min. hole depth
 d_0 = Hole diameter
 t_{fix} = Fixture thickness
 $\varnothing_v$ = Screw diameter
 L_v = Screw length

Screw length calculation: $L_v > L_t + t_{fix}$

VN A
with chipboard screwVN C
with chipboard screw

Code	Description		$d_0 \times L_t$ mm	T_{fix} mm	h_1 mm	$\varnothing_v \times L_v$ mm
477	VN A flanged body	5	5 x 26	1,5	35	3,5 x 30
478	VN A flanged body	6	6 x 31	6	40	4,5 x 40
479	VN A flanged body	8	8 x 41	5	55	5 x 50
480	VN A flanged body	10	10 x 51	4	70	6 x 60

644	VN C nylon plug	5	5 x 25	1,5	35	3,5 x 30
645	VN C nylon plug	6	6 x 30	6	40	4,5 x 40
646	VN C nylon plug	8	8 x 40	5	55	5 x 50
647	VN C nylon plug	10	10 x 50	4	70	6 x 60

Examples of applications



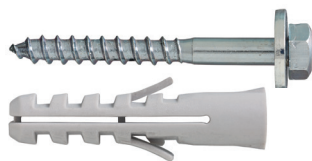


concrete

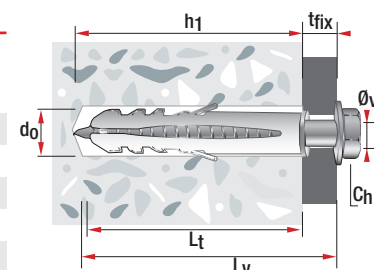
natural
stone

solid brick

identificazione prodotto e technical data


VN T
 with hexagonal head screw
 and washer

Code	Description		$d_0 \times L_t$ mm	h_1 mm	T_{fix} mm	$\emptyset_v \times L_v$ mm
850	VN T nylon plug	8	8 x 40	55	5	6 x 45
851	VN T nylon plug	10	10 x 50	70	10	7 x 60
852	VN T nylon plug	12	12 x 60	75	10	8 x 70
853	VN T nylon plug	14/75	14 x 75	90	10	10 x 80
856	VN T nylon plug	14/100	14 x 100	115	10	10 x 110
854	VN T nylon plug	16	16 x 80	90	5	12 x 90


VN 4
 with zincplated hook

Code	Description	$d_0 \times L_t$ mm	h_1 mm
449	VN 4	4 x 20	25

L_t = Plug length
 h_1 = Min. hole depth
 d_0 = Hole diameter
 t_{fix} = Fixture thickness
 $\emptyset_v$ = Screw diameter
 L_v = Screw length
 Ch = Spanner
 $\emptyset_g$ = Hook diameter
 L_g = Hook length

ATTENTION: Applied safety factor = 5
VN

Substrate materials	VN 4	VN 5	VN 6	VN 8	VN 10	VN 12	VN 14	VN 16
Tensile resistance in daN with wood screws	1 daN = 1 kg							
Ø screws (mm)	3	4	5	6	8	10	12	14
Concrete C20/25	5	18	35	50	70	100	130	150
Solid brick**		15	30	40	-	-	-	-
Double brick UNI with plaster**	4	8	10	-	-	-	-	-

**Indicative loading values due to the various materials properties.