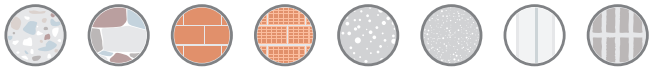
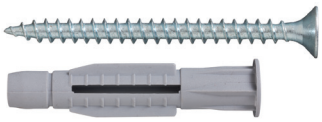
Vorpa **VR**

Universal nylon plug



products group

VR
no accessories



VR V
with chipboard screw

Suitable for
- concrete
- natural stone
- solid brick
- perforated brick
- aerated poroton
- aerated concrete
- plasterboard
- perforated cement

To fix
- pictures
- lighting
- skirting
- shelves
- mirror cabinets
- letter boxes
- curtain rails
- electrical installation

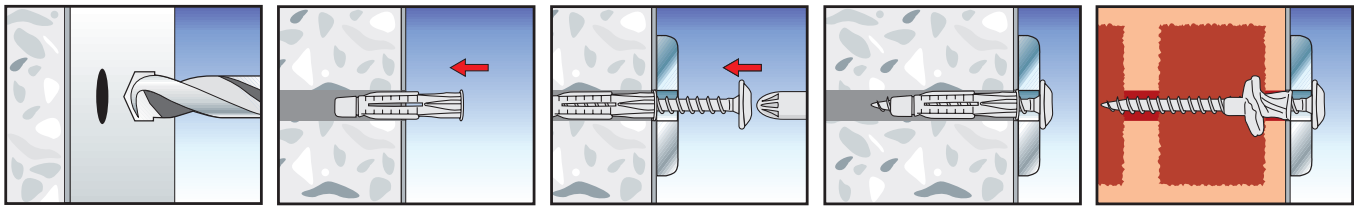
product information

Characteristics
- HD polyethylene plug suitable for applications on compact and hollow materials
- safe and quick fixings
- special anti-rotation wings that prevents the plug turning in the hole on installation
- the plug's neck avoid the introduction of the plug inside the hole
- resistant to temperatures from -40°C to +70°C
- to be used with wood screws

Installation
- to be mounted aligned the wall

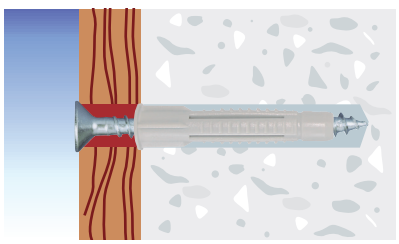
Suggestion for use
- always consider an appropriate safety factor
- check load bearing capacity values
- respect the installation data
- clean the hole before the installation

installation sequence

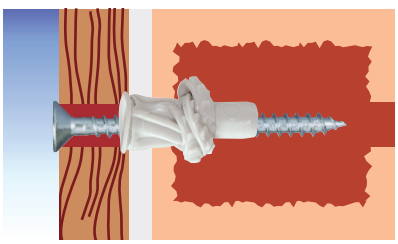


Clean the hole before the installation

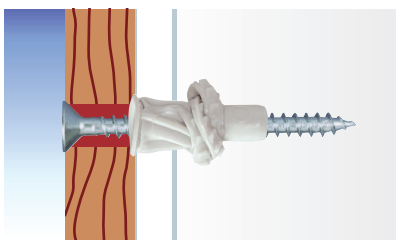
Examples of applications



On solid brick



On hollow brick



On plasterboard and panels

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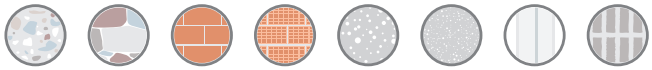
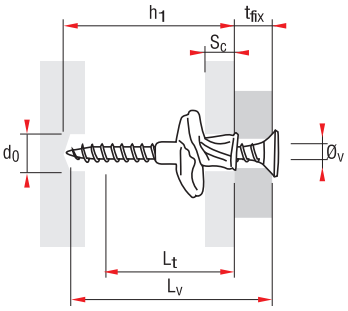
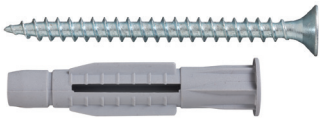


product code and technical data

VR
no accessories

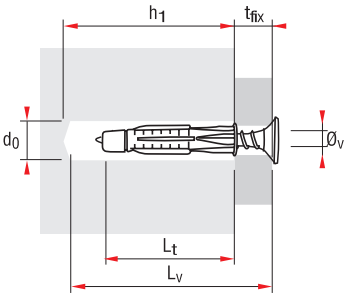
Code	Description	d_0 x L_t mm	h_1 mm	$Ø_V$ mm
531	VR 6	6 x 38	48	3÷5
532	VR 8	8 x 51	61	3,5÷7
533	VR 10	10 x 61	71	5÷8





VR V
with chipboard screw

Code	Description	d_0 x L_t mm	h_1 mm	T_{fix} mm	S_c mm	$Ø_V$ x L_V mm
541	VR V 6	6 x 38	48	8	6	4x45
542	VR V 8	8 x 51	61	8	6	5x60
543	VR V 10	10 x 61	71	8	6	6x70



L_t = Plug length
h_1 = Min. hole depth
d_0 = Hole diameter
t_{fix} = Fixture thickness
$Ø_V$ = Screw diameter
L_V = Screw length
S_c = Substrate thickness

Screw length calculation: **$L_V > L_t + T_{fix}$**

Examples of applications

ATTENTION: An appropriate safety factor ≥ 5 should be applied on these values

VR

Substrate materials	VR Ø6	VR Ø8	VR Ø10
Tensile resistance in daN with wood screws			1 daN≅1 kg
Ø screws (mm)	4x45	5x60	6x70
Concrete C20/25	100	160	190
Solid brick**	70	130	140
Double brick UNI with plaster**	40	55	75
Plasterboard mm 10	30	40	40

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

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