

SINCE  
2001

THE GROUP OF COMPANIES  
**EUROPARTNER**®

EUROPEAN  
QUALITY  
FASTENERS

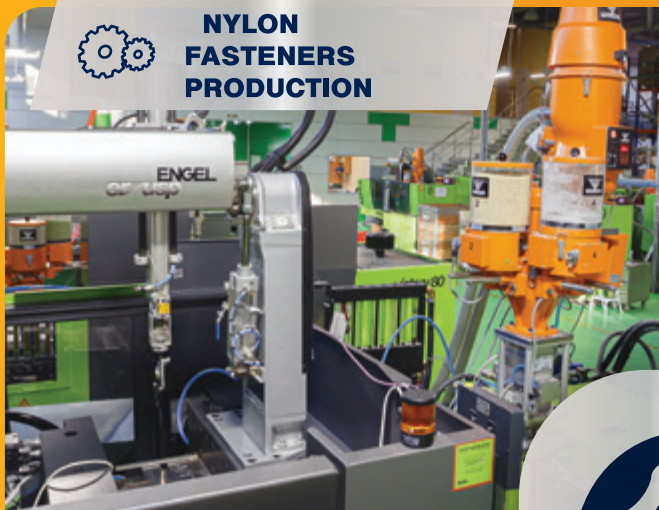


LLC "EUROPARTNER"  
198320, Russia, St. Petersburg,  
Krasnoe Selo, Pervogo Maya st., 2, building 4, lit B  
[www.europartner.su](http://www.europartner.su)  
[info@europartner.su](mailto:info@europartner.su)

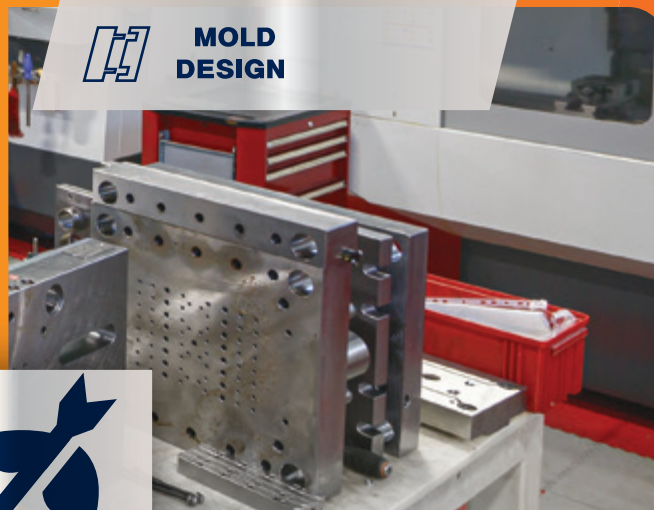




**NYLON  
FASTENERS  
PRODUCTION**



**MOLD  
DESIGN**



**КАЧЕСТВО**



**KANBAN**



**FASTENERS  
PACKAGING  
SYSTEM**







**EUROPARTNER**®

since 2001



**ENGEL VICTORI 60 Combi**

Machine park:

- ENGEL VICTORI 330H/80W/60 Combi - 1 pcs.
- ENGEL VICTORI 860/160 SPEX - 2 pcs.
- ENGEL VICTORI 500/120 SPEX - 3 pcs.
- ENGEL VICTORI 330/80 SPEX - 1 pcs.
- ENGEL VICTORI 200/80 SPEX - 4 pcs.
- ENGEL VICTORI 80/50 SPEX - 3 pcs.
- HAITIAN ZHAFIR ZE1200/430h - 2 pcs.

**2001** 

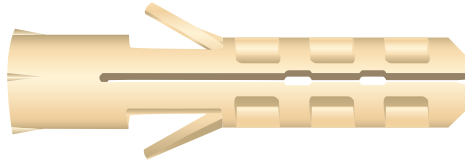
### The first MUT polyethylene plugs

The Russian-Finnish enterprise SORMAT OST for the production of plastic fasteners was opened in St. Petersburg. The products are produced under the license of SORMAT OY /Finland/.

**2002 - 2003** 

### Annual output - 30 million units

Production of nylon NAT plugs, universal plugs, nail clip SC for fixing cables.

**2003 - 2006** 

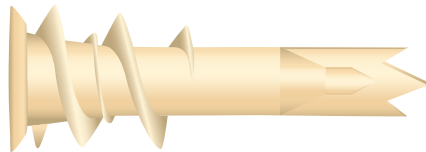
### 30% of products are exported

The annual output of products is 270 million units. Production of facade plugs that have received the certificate of state construction committee of Russia. A computer-based product quality control system has been implemented.

**2007** 

### Annual output - 330 million units

The Italian automatic line for material preparation has been launched. All peripheral systems of the plant are duplicated. SORMAT OST - Russian enterprise producing products under the license SORMAT OY.

**2008 - 2010** 

### Technical modernization of the plant

The annual output of products is 370 million units. New thermoplastic machines ENGEL /Austria/ have been installed. The raw materials of the world's leading manufacturers of polyamides DuPont and BASF are used. New products are produced under the EUROPARTNER brand.

**2011** 

### Instrumental manufacturing

Thermoplastic machines ENGEL /Austria/ in armored version for working with glass-filled polyamides have been installed. A tool production has been launched, equipped with high-precision CNC machines from HAAS /USA/. All products of the plant are produced under the EUROPARTNER brand.

# WE OFFER YOU NYLON FIXING HARDWARE 20 YEARS ROUND-THE-CLOCK

2012   
**ISO 9001**

The management system of the EUROPARTNER plant is certified for compliance with ISO 9001 requirements.  
The plant produces innovative fasteners that replace metal analogues (PDGN plugs with nylon nailscrew).

2013   
**Engineering new products**

Sales of fasteners EUROPARTNER were started in France in July 2013. New products are being developed in cooperation with BASF and DuPont.

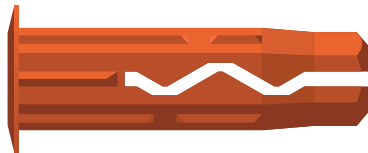


2014 - 2015   
**MULTI fastening solutions**

The supply of fasteners to Finland has started, and the confidence of buyers in Russia is growing.  
New products have been released: MULTI plug for external and internal works in any materials; SNAKE nailplug, unparalleled.

2016   
**The plant moves to Krasnoye Selo**

The thermoplastic machines produces nylon plugs 24 hours a day. Thermoplastics machines are equipped with koch-technik mixers to automate the mixing process. The tool and fitter section allows you to make new molds and carry out ongoing repairs on your own.



2017 - 2019   
**Mold engineering**

The range of products has been expanded. New direction of the Europartner plant - design, manufacture, service of molds for TPA. The website of direct sales has been developed [www.europartner-online.ru](http://www.europartner-online.ru)

2020 - 2022   
**Increasing of machinery equipment**

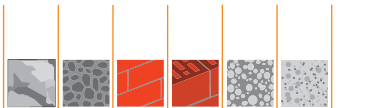
With the support of the St. Petersburg Industrial Development Fund, the plant's machine farm was increased. Quality control of polymer products and mold components is reaching a new level thanks to a universal X-ray tomograph. New products have been released. EUROPARTNER products are packaged in MULTI Box packaging, which was first presented on the Russian market.

**OUR FIXING HARDWARE SOLUTIONS ARE TESTED  
WITH TIME AND EXPERIENCE**

# Application table

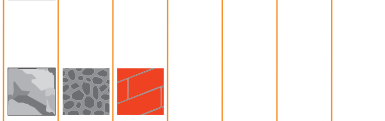
**PND, PND L**

p. 8



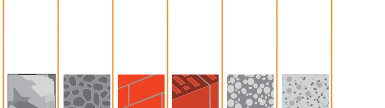
**PND F**

p. 10



**PNDS LK**

p. 11



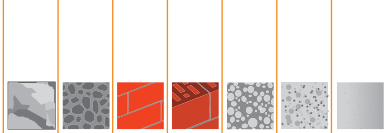
**PDU N**

p. 12



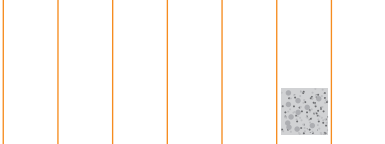
**MULTI plug** **NEW**

p. 14



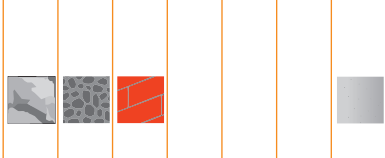
**PBT**

p. 16



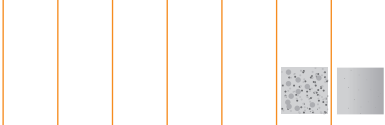
**PLA**

p. 19



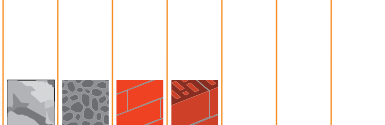
**PBA, PBAM**

p. 20



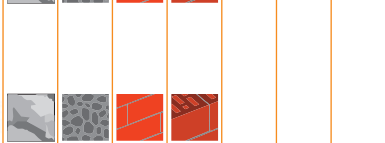
**PDG UK, LK**

p. 24



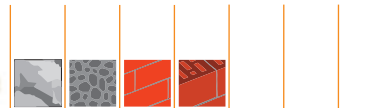
**PDG F** **NEW**

p. 24



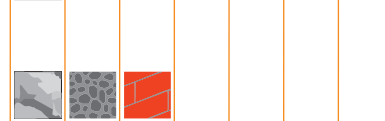
**PDGN UK, LK**

p. 26



**SNAKE SG, SB**

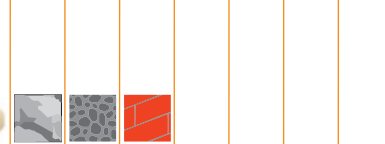
p. 28



**SNAKE SB UK**

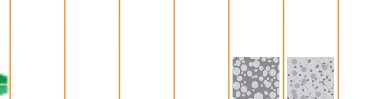
p. 28

**NEW**



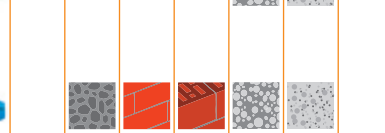
**ANF-L**

p. 31



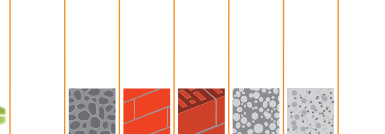
**DF**

p. 32



**ANF-B** **NEW**

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**Bevelled washer** **NEW**

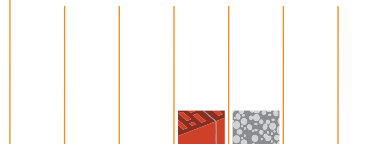
p. 36



used when installing front ANF, DF plugs

**P10** **NEW**

p. 37



**Restrictive rivet bushing**

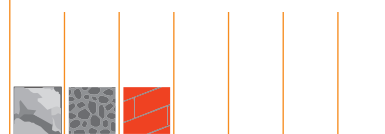
p. 38



used during installation of exhaust rivet

**PDR**

p. 39



stone



concrete



brick



hollow brick

# Application table

**PRN**

p. 40

for connection of electrical conductors and cables into a single bundle



**PRM**

**NEW**

p. 41

for connection of electrical conductors and cables into a single bundle



**PDX**

**NEW**

p. 42



**PDS**

**NEW**

p. 43



**PSC**

p. 44

set to a tree, or with using PDSC plug into concrete or brick



**PDSC**

p. 44



**PDF**

**NEW**

p. 45

used for attachment copper, steel, plastic pipes, and electrical cable



**PRNT**

p. 46

strap with installation platform



## Attachment kits

**Door limiter kit**

p. 48



**Mirror attachment kit**

p. 50



**PWB**

p. 52

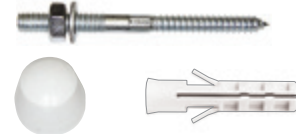
boiler attachment kit



**PWR**

p. 54

sink attachment kit



**PWC**

p. 55

toilet and urinal attachment kit



**Set assembler**

**NEW**

p. 56



**Stubs**

p. 58

for closing holes in the jambs, frames and other wooden surfaces



ceramsite concrete



aerated concrete



plasterboard



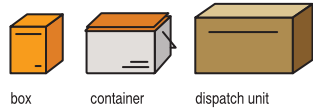
# Nylon plug



## PND Nylon plug



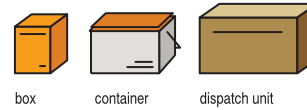
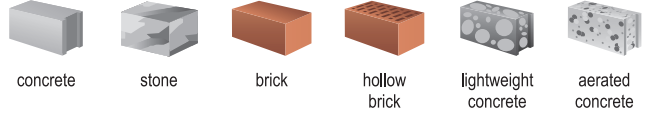
plug material: nylon



## PND L Nylon plug long



plug material: nylon



## APPLICATIONS



- home interior;
- communications;
- light and medium structures;
- scaffolding (PND 14 and 14L).

PND plug is used for fastening in concrete, natural stone and brick.

PND L long plug can be used for fastening in concrete, natural stone, brick, hollow brick, aerated concrete.

Plug is recommended for use with universal screw.

## TECHNICAL DATA

TYPE	L mm	d <sub>0</sub> mm	h <sub>1</sub> mm	screw Ø mm	Recommended loads* tension load		
					brick kg	concrete kg	aerated concrete kg
PND 4	20	4	25	2,5 - 3,0	10	20	-
PND 5	25	5	30	2,5 - 4,0	20	30	-
PND 6	30	6	35	3,5 - 5,0	30	40	-
PND 6L	50	6	55	3,5 - 5,0	30	40	10
PND 8	40	8	45	4,5 - 6,0	50	60	-
PND 8L	65	8	70	4,5 - 6,0	50	60	20
PND 10	50	10	55	6,0 - 8,0	70	100	-
PND 10L	80	10	85	6,0 - 8,0	70	100	30
PND 12	60	12	65	8,0 - 10,0	100	150	-
PND 12L	100	12	105	8,0 - 10,0	100	150	40
PND 14	70	14	75	10,0 - 12,0	120	250	-
PND 14L	100	14	105	10,0 - 12,0	120	250	50

L - plug length  
d<sub>0</sub> - drill diameter  
h<sub>1</sub> - min. drilling depth  
Ø - diameter  
\* - max. screw Ø

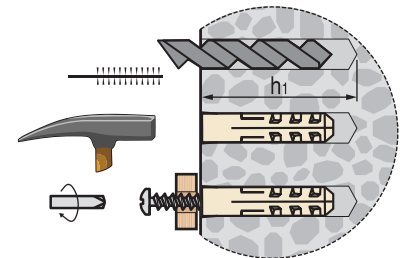
min. screw length = plug length + thickness of the attached material

## ADVANTAGES

- Easy installation;
- anti-rotation locks prevent scrolling in the hole;
- reliable fastening to the base material due to fixing blocks;
- geometry of the inside profile centers screw during installation.

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install a plug.
4. Tighten the screw through the attached material.





## PND 6F Mushroom head nylon plug



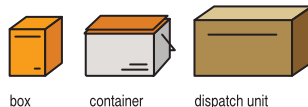
plug material: nylon



concrete

stone

brick



box

container

dispatch unit



## APPLICATIONS



Home interior items, communications, installation of light.

PND 6F nylon plug with mushroom wide head (14 mm) is intended for push-through installation.

## ADVANTAGES

- A mushroom head provides better fixation of the attached material due to a larger pressing area;
- reliable fastening to the material due to fixing blocks on the plugs body;
- geometry of the inside profile centers screw during installation.

## TECHNICAL DATA

Recommended loads\*  
tension load, kg

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	screw Ø	brick	concrete
PND 6F	40	6	10	45	3,5 - 5,0	30	40

L - plug length

d<sub>0</sub> - drill diameter

t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - min. drilling depth

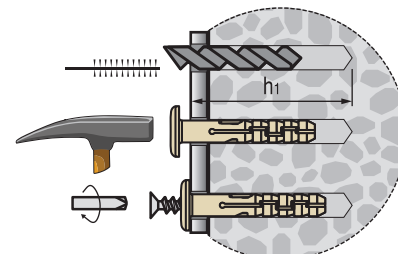
Ø - diameter

\* - max. screw Ø

Screw length = 40 mm

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install a plug push-through material.
4. Tighten the screw.

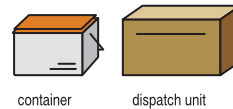
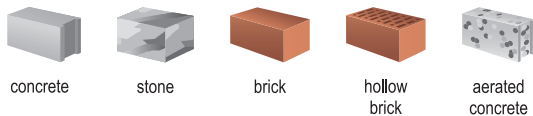
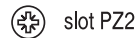




## PNDS LK Frame nylon plug with screw



plug material: nylon  
screw: steel, zinc plated



### APPLICATIONS



Fastening push-through installation. Including kitchen cupboard, brackets, door and window frames, wood beams.

### TECHNICAL DATA

					Recommended loads tension load, kg		
TYPE	screw	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	brick	concrete	aerated concrete
Ø x L mm	Ø x L mm	mm	mm	mm			
8x60	5x60	8	20	70	40	50	20
8x80	5x80	8	40	90	40	50	20
8x100	5x100	8	60	110	40	50	20
8x120	5x120	8	80	130	40	50	20

L - length  
d<sub>0</sub> - drill diameter  
t<sub>fix</sub> - max. fixture thickness

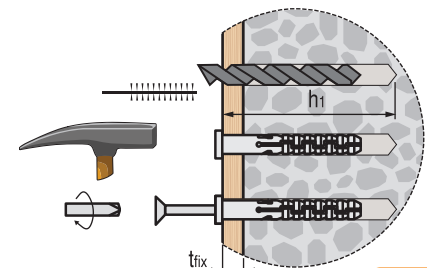
h<sub>1</sub> - drilling depth (with t<sub>fix</sub>)  
Ø - diameter

### ADVANTAGES

- The pansunk head prevents the plug from pushing through the material;
- possibility of adjustment attachment;
- a large non-working zone allows to fix material of different thicknesses;
- reliable fastening to material due to increased wedging zone.

### INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install plug push-through material.
4. Tighten a screw.



# Universal nylon plug



## PDU N Universal nylon plug

## PDU N L Universal nylon plug long



plug material: nylon

plug material: nylon



concrete



stone



brick



hollow  
brick



plasterboard,  
timber-based  
boards



concrete



stone



brick



hollow  
brick



aerated  
concrete



plasterboard,  
timber-based  
boards



box



container



dispatch unit



box



container



dispatch unit



## APPLICATIONS



In solid materials it works as a simple nylon plug. In hollow and sheet materials, it is twisted into a node. The collar prevents the plug from being pushed into the hole when attached to sheet and hollow materials. The collar can be removed at installation in solid materials.

It is recommended to use universal screws during installation.

## ADVANTAGES

- Expansion of the plug takes place in four directions for more effective fixation;
- plug shape prevents scrolling in the hole at the moment of installation;
- tear-off collar;
- reliable fastening in any materials.

## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	h <sub>1</sub>	screw Ø	Recommended loads* tension load, kg	
					concrete	12,5 mm plasterboard
	mm	mm	mm	mm		
PDU N 5	25	5	30	2,5 - 4,0	10	5
PDU N 6	30	6	35	3,0 - 4,5	20	10
PDU N 6L	50	6	55	4,0 - 4,5	20**	10
PDU N 8	40	8	45	4,0 - 6,0	40	10
PDU N 10	60	10	65	6,0 - 8,0	60	10

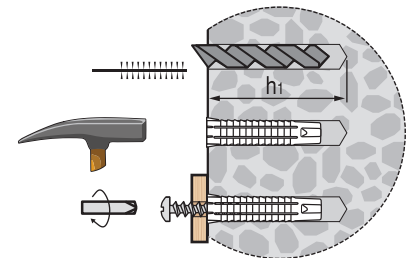
L - plug length  
d<sub>0</sub> - drill diameter  
h<sub>1</sub> - min. drilling depth  
Ø - diameter  
\* - max. screw Ø  
\*\* - plasterboard

min. screw length = plug length + thickness of the attached material

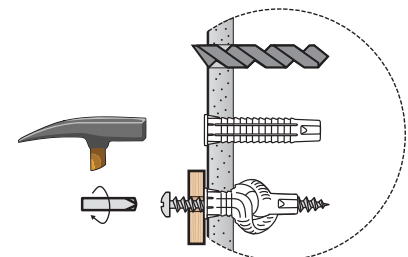
## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install a plug.
4. Tighten the screw through the attached material.

Installation in concrete.



Installation in plasterboard.



# Universal nylon plug



## MULTI PLUG

### Universal plug for outdoor and indoor works



plug material: nylon



orange



blue



white



brown

## ANY WALLS



concrete



stone



brick



hollow  
brick



aerated  
concrete



plasterboard,  
timber-based boards



box



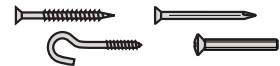
container

## APPLICATIONS



## ANY TASKS INSIDE and OUTSIDE

## ANY FASTENER



MULTI plug can be used for fastening in any base material.



## ADVANTAGES

- The hexagonal shape prevents from twisting plug;
- collar prevents from slipping plug into the hole;
- any types and sizes of fasteners: metric screws, screws, screw eyes, hooks, nails;
- reliable fastening in any materials.

## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	h <sub>1</sub>	screw Ø	nail Ø	screw
	mm	mm	mm	mm	mm	
multi 5	20	5 (4*)	25	2,5 - 3,5	1,0 - 1,4	M2 - M3
multi 6	25	6 (5*)	30	2,5 - 4,5	1,2 - 1,6	M2 - M3
multi 8	32	8 (6*)	37	3,5 - 5,0	1,6 - 2,0	M2,5 - M4
multi 10	40	10 (8*)	45	4,0 - 6,0	2,5 - 3,0	M5

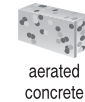
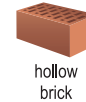
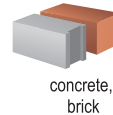
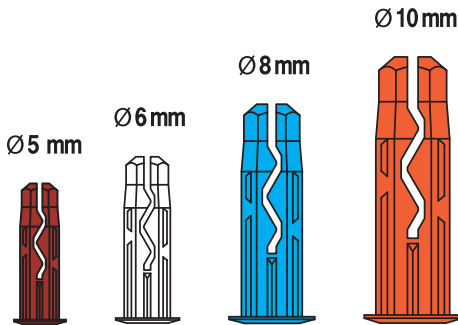
L - plug length  
d<sub>0</sub> - drill diameter

h<sub>1</sub> - min. drilling depth  
Ø - diameter

\* - aerated concrete

Fixing element length = from 0.6 to 1 plug length + thickness of the attached material

## Recommended tension load\*



concrete,  
brick

hollow  
brick

aerated  
concrete

plasterboard  
1 sheet / 2 sheets

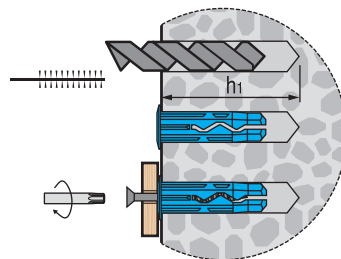
TYPE	concrete, brick	hollow brick	aerated concrete	plasterboard 1 sheet / 2 sheets
multi 5	15	15	5 / 5 / 5	10 / 10
multi 6	60	40	12 / 15 / 25	15 / 25
multi 8	90	60	20 / 30 / 35	18 / 30
multi 10	160	100	35 / 40 / 45	22 / 40

\* - max. screw Ø

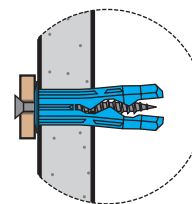
## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install a plug.
4. Tighten the fixing element through the attached material.

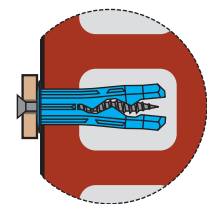
Installation in concrete.



Installation in plasterboard.



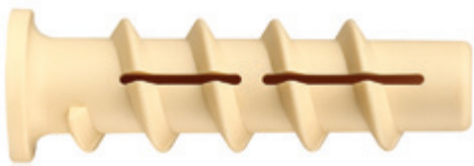
Installation in hollow brick.







## PBT Aerated concrete plug



plug material: nylon



aerated  
concrete



container



dispatch unit



## APPLICATIONS



Fixing in aerated concrete:

- radiators;
- ventilation, air conditioning, plumbing;
- facade fixings;
- electrical installation.

## ADVANTAGES

- The coarse spiral-shaped outer thread provides a solid grip;
- suitable screws are wood-, universal- and machine threaded screws, bolts and studs;
- the plug doesn't create tension in the base material;
- the plug has a high load-bearing capacity.

## ТЕХНИЧЕСКИЕ ПАРАМЕТРЫ

Recommended loads  
tension load  
aerated concrete

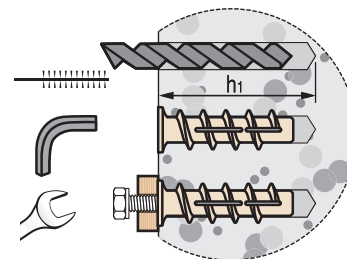
TYPE	L	d <sub>0</sub>	h <sub>1</sub>	SW	screw Ø	kg
	mm	mm	mm	mm	mm	
<b>PBT 4</b>	<b>50</b>	<b>10</b>	<b>60</b>	<b>6</b>	<b>4,0 - 4,5 / M 4</b>	<b>30</b>
<b>PBT 6</b>	<b>50</b>	<b>10</b>	<b>60</b>	<b>6</b>	<b>5,0 - 6,0 / M 6</b>	<b>30</b>
<b>PBT 8</b>	<b>60</b>	<b>12</b>	<b>70</b>	<b>8</b>	<b>7,0 - 8,0 / M 8</b>	<b>60</b>
<b>PBT 10</b>	<b>70</b>	<b>14</b>	<b>80</b>	<b>10</b>	<b>9,0 - 10,0 / M 10</b>	<b>90</b>

L - plug length  
d<sub>0</sub> - drill diameter  
h<sub>1</sub> - min. drilling depth  
Ø - diameter  
SW - hexagon key size

Fixing element length = from 0,8 to 1 plug length + thickness of the attached material

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install the plug in the hole using a hexagon wrench.
4. Tighten the fixing element through the attached material.



# multi PRO

PROFESSIONAL FASTENERS

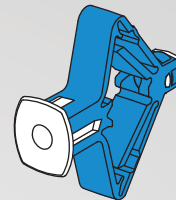
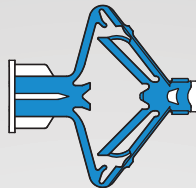
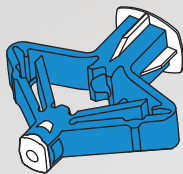
- ★ The plug material makes the product more resistant to temperature and impact resistant
- ★ Highly stable performance characteristics



**FIRST TIME  
IN RUSSIA**

**2-piece  
PLA Plug**

**NEW**



**polyamide 6**

**polyamide 66**

**SECURE FIXING IN SINGLE OR DOUBLE PLASTERBOARD**

**multi PRO**

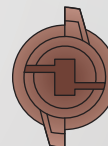
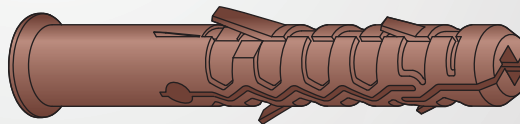
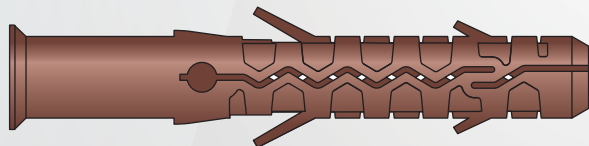
PROFESSIONAL FASTENERS

**FOR SCAFFOLDING**

**PNG Plug**

**NEW**

quality  
**NYLON**  
-40°C - +80°C  
reliability



**EUROPARTNER®**

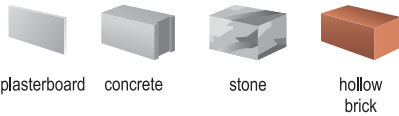
since 2001



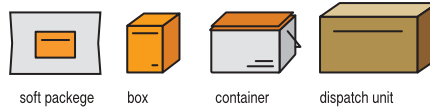
## PLA Hollow-wall plug



plug material: nylon  
screw material: steel, zinc plated with anti-friction coating



plasterboard concrete stone hollow brick



soft package box container dispatch unit



## APPLICATIONS



Plug delivery options:

- with screw;
- without screw.



slot PZ2

## ADVANTAGES

- Electro galvanised steel with anti-friction coating provides easy installation of the screw;
- collar and anti-rotation locks prevent a reliable fixation in sheet materials;
- suitable for plasterboard sheets  $\geq 12$  mm thick, brick, concrete.
- geometry of the inside profile plug prevents twisting during installation;
- reliable fastening in any materials.

## TECHNICAL DATA

Plug	Screw	$d_o$	$t_{fix}$	$h_{min}$	Recommended tension loads plasterboard 12,5 mm 1 sheet / 2 sheets
L mm	$\varnothing \times L$ mm	mm	mm	mm	kg
50*	4x60	10	12 / 6**	12	30 / 40

L - plug size

$d_o$  - drill diameter

$t_{fix}$  - max. fixture thickness

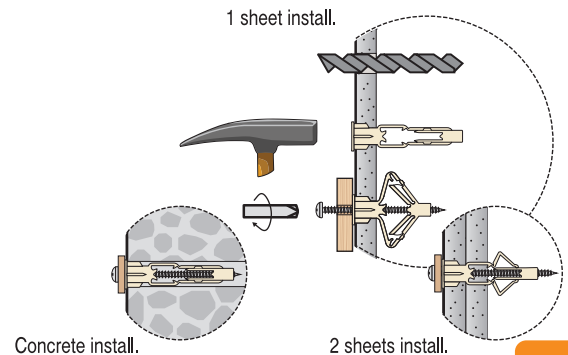
$h_{min}$  - min. sheet thickness

\* - plug size at rest

\*\* - 1 sheet / 2 sheets of plasterboard

## MOUNTING

1. Drill a hole  $\varnothing 10$  mm.  
The minimum depth in a solid material is 55 mm.
2. Install a plug.
3. Tighten the screw through the attached material.



Concrete install.

2 sheets install.



## PBA Plug for plasterboard



plug material: glass-filled nylon



plasterboard,  
double plasterboard



soft package



box



container



dispatch unit

## PBAM Plug for plasterboard and aerated concrete reinforced



plug material: glass-filled nylon



aerated  
concrete



plasterboard, double plasterboard,  
reinforced plasterboard



soft package



box



container



dispatch unit

## PBAF Plug for plasterboard and aerated concrete fireproof



plug material: glass-filled nylon



plasterboard, double plasterboard,  
reinforced plasterboard



aerated  
concrete



dispatch unit

**Plug PBA /beige/** for use in single and double plasterboard.

**Plug PBAM /grey/**, due to the increased of glass fibre in nylon, can be used for all types of plasterboard and replaces similar metal anchors.

**Plug PBAF /black/** has increased fire resistance V0. Plug can be used for all types of plasterboard and replaces similar metal anchors.



## APPLICATIONS



Plug delivery options:  
- with screw;  
- without screw.



slot PZ2

## ADVANTAGES

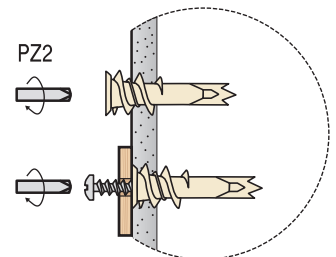
- The spiral-shaped outer thread provides a solid grip;
- no special tools needed, just a PZ2 screwdriver.
- cuts its own thread;
- set flush with the board surface.

## TECHNICAL DATA

L	t <sub>fix</sub>	h <sub>min</sub>	screw	Recommended tension loads, kg	
				plasterboard 12,5 mm	aerated concrete
mm	mm	mm	Ø x L mm	1 sheet / 2 sheets	
37	12	9	4,5x35	15 / 25	30
L - plug length			h <sub>min</sub> - min. base material thickness		
t <sub>fix</sub> - max. fixture thickness					

## MOUNTING

1. Drill a hole, using the tip of the plug as a drill bit. Tighten the plug until the board surface. Do not overtighten.
2. Tighten the screw through the attached material.



# NAIL PLUG FOR PUSH-THROUGH INSTALLATION

## SNAKE SB

glass-filled nylon



## SNAKE SG

glass-filled nylon

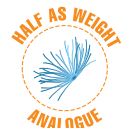


## SNAKE SB UK

glass-filled nylon

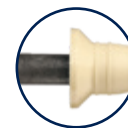
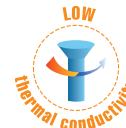


# SNAKE PLUG



## PDGN

plug: nylon  
nail: glass-filled nylon

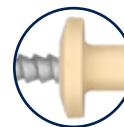


PDGN UK

PDGN LK

## PDG

plug: nylon  
nail: steel, zinc plated



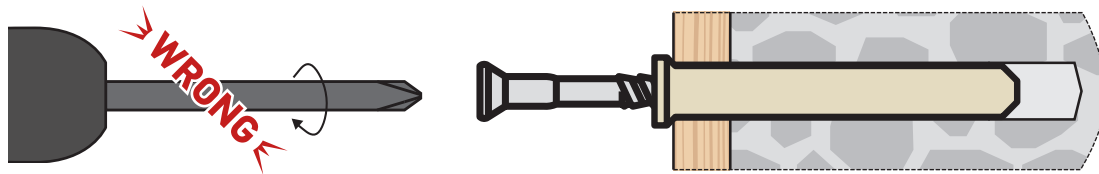
PDG F

PDG UK

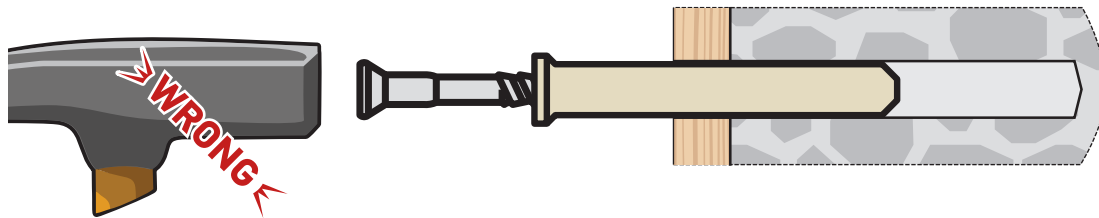
PDG LK

# INSTALLATION MISTAKES

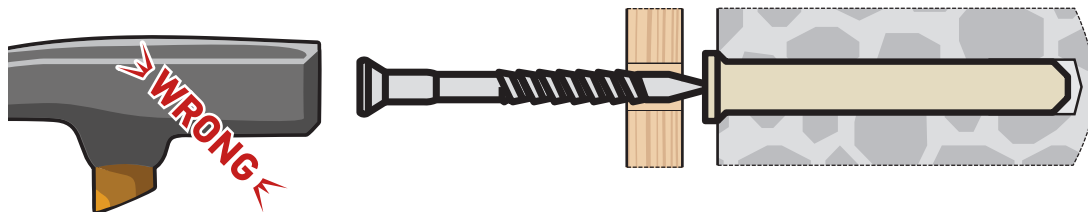
1. Tighten the nail.



2. Hammer the nail without full plug installation.



3. No push-through nail installation.



**SNAKE**  
**PLUG**



**MAKE NO MISTAKE**

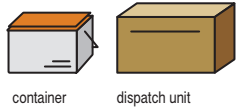
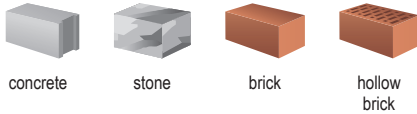




## PDG UK Nail plug countersunk head



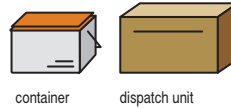
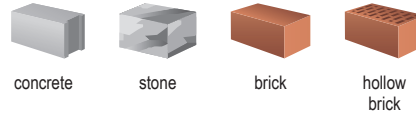
plug material: nylon  
nail: steel, zinc plated



## PDG LK Nail plug pansunk head



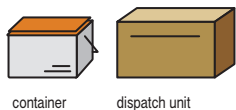
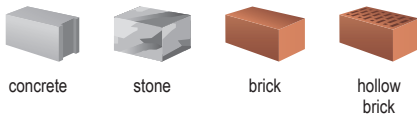
plug material: nylon  
nail: steel, zinc plated



## PDG F Nail plug mushroom head



plug material: nylon  
nail: steel, zinc plated





## APPLICATIONS



Quick push-through installation in different material. Such as plasterboard guide rails, baseboards, plywood base for parquet floors, pipe supports.

PDG F - nail plug with mushroom head.

Head diameter:

PDG 5F - 11 mm, PDG 6F - 13 mm, PDG 8F - 17 mm

The larger plug head provides a stronger clamping force.

## ADVANTAGES

- Quick push-through installation;
- fixing blocks provide a reliable fastening to base material;
- geometry of the inside profile centers screw during installation.

## TECHNICAL DATA

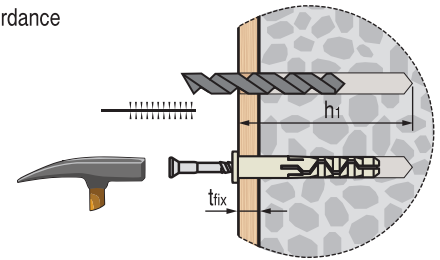
TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	Recommended loads
					tension load concrete
	mm	mm	mm	mm	kg
5x30 UK, LK, F	30	5	5	35	30
5x40 UK, LK, F	40	5	10	50	30
5x50 UK, LK, F	50	5	20	60	30
6x40 UK, LK, F	40	6	10	50	50
6x60 UK, LK, F	60	6	30	70	50
6x80 UK, LK, F	80	6	50	90	50
8x60 UK, LK, F	60	8	20	70	80
8x80 UK, LK, F	80	8	40	90	80
8x100 UK, LK, F	100	8	60	110	80
8x120 UK, LK, F	120	8	80	130	80
8x140 UK, LK, F	140	8	100	150	80

L - plug length  
d<sub>0</sub> - drill diameter

t<sub>fix</sub> - max. fixture thickness  
h<sub>1</sub> - drilling depth (with t<sub>fix</sub>)

## INSTALLATION

1. Drill the hole push-through base material in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install plug push-through material ( h<sub>nom</sub> ).
4. Hammer the nail.



## REMOVING

Unscrew the nail and cut off plug head.

# Nail plug



## PDGN UK Nail plug countersunk head



plug material: nylon  
nail: glass-field nylon



concrete



stone



brick



hollow  
brick



container



dispatch unit

## PDGN LK Nail plug pansunk head



plug material: nylon  
nail: glass-field nylon



concrete



stone



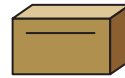
brick



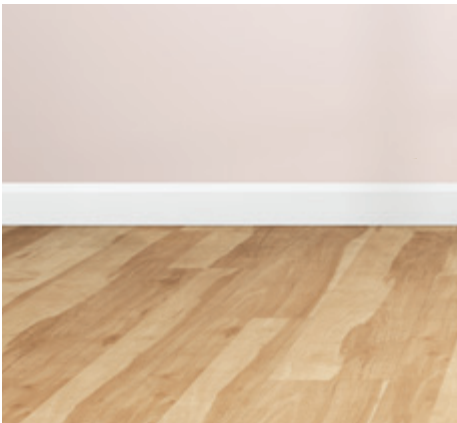
hollow  
brick

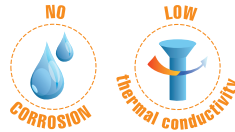


container



dispatch unit





## APPLICATIONS



battens,  
electrical installation,  
decking, piers,  
insulation materials,  
pipe supports



cable clamps,  
cable ducts,  
baseboards  
electrical installation,

Quick push-through installation in different material:  
concrete, stone, brick, ect.

## TECHNICAL DATA

Recommended loads  
tension load  
concrete

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	kg
	mm	mm	mm	mm	
5x30 UK, LK	30	5	5	35	30
5x40 UK, LK	40	5	10	50	30
5x50 UK, LK	50	5	20	60	30
6x40 UK, LK	40	6	10	50	50
6x60 UK, LK	60	6	30	70	50
6x80 UK, LK	80	6	50	90	50
8x60 UK, LK	60	8	20	70	80
8x80 UK, LK	80	8	40	90	80
8x100 UK, LK	100	8	60	110	80

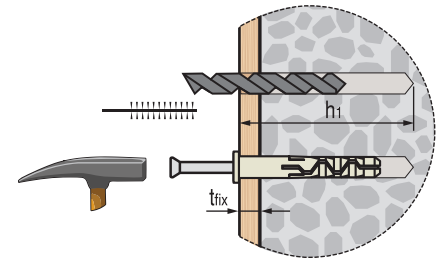
L - plug length  
d<sub>0</sub> - drill diameter  
t<sub>fix</sub> - max. fixture thickness  
h<sub>1</sub> - drilling depth (with t<sub>fix</sub>)

## ADVANTAGES

- Quick push-through installation;
- fixing blocks provide a reliable fastening to material;
- no corrosion;
- wide temperature range;
- low thermal conductivity;
- long durability.

## INSTALLATION

1. Drill the hole push-through base material in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install plug push-through material ( h<sub>nom</sub> ).
4. Hammer the nail.



## REMOVING

Unscrew the nail and cut off plug collar.

# Nail plug

**PATENT**

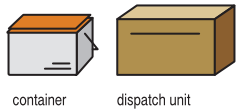
## Snake SG Nail plug for indoor works



plug material: glass-filled polypropylene



concrete stone brick



container dispatch unit

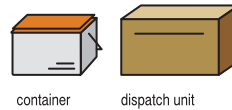
## Snake SB Nail plug reinforced or outdoor works



plug material: glass-filled nylon



concrete stone brick



container dispatch unit

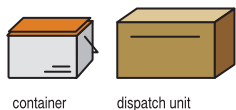
## Snake SB UK Nail plug with countersunk head for acoustic panels reinforced



plug material: glass-filled nylon



concrete stone brick



container dispatch unit

# Nail plug

**EUROPARTNER**<sup>®</sup>  
since 2001



developed  
**EUROPARTNER**



## APPLICATIONS

SNAKE plug for quick push-through installation: metal profiles, cable ducts, baseboards, pipe supports.

SNAKE SB UK plug designed for acoustic panel mounting especially.

Commutes a nail plug with a metal nail.

## TECHNICAL DATA

Recommended loads  
tension load

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	d <sub>1</sub>	concrete
	mm	mm	mm	mm	mm	kg
SB 5x30	30	5	4	50	11	20
SB 6x40	40	6	6	60	12	30
SG 6x40	40	6	6	60	12	15
SB UK 6x50	50	6	10	70	14	30
SB UK 6x70	70	6	30	90	14	30

L - plug length

d<sub>0</sub> - drill diameter

t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - drilling depth (with t<sub>fix</sub>)

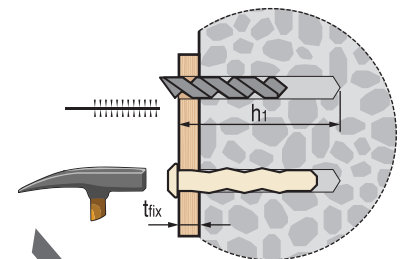
d<sub>1</sub> - head diameter

## ADVANTAGES

- Quick push-through installation;
- The wide head provides a secure fastening;
- 3-dimensional curve provides an increased clutch torque between the plug and the material;
- no corrosion;
- low thermal conductivity;
- low acoustic conductivity;
- half as weight analogue.

## INSTALLATION

1. Drill the hole push-through base material in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Hammer the nail plug.



## REMOVING

Cut off the head.  
Use safety goggles.



# FRAME PLUGS FOR PUSH-THROUGH INSTALLATION

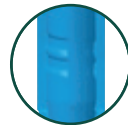
## UNIVERSAL



## FOR AERATED CONCRETES



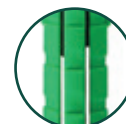
The screw design prevents the possibility of damage and guarantees high loads.



Double safety lock against torsion for secure installation.



The larger opening area provides the possibility to use the plug in nearly all types of material.



Reliable installation in problematic building material due to optimised expansion part.



**ANF-B**  
polyamide 6

**DF-B**  
polyamide 66

DF-B plug is approved for installation in seismic areas up to 9 points. Polyamide 66 guarantees low moisture absorption and high plug durability.

**ANF-L**  
polyamide6



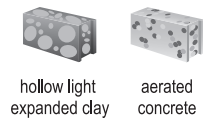
## ANF-L Facade plug for push-through installation



Hexagon flange screw SW13, T40

plug material: nylon

screw material: carbon steel with low-temperature  
anti-corrosion treatment



hollow light  
expanded clay

aerated  
concrete



dispatch unit

## APPLICATIONS



ANF-L plug for push-through installation facade substructures in aerated concrete. Reliable installation in problematic building material due to optimised expansion part.

## ADVANTAGES

- Reliable installation in problematic building material due to optimised expansion part;
- the screw design prevents the possibility of damage and guarantees high loads.

## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub> <sup>*</sup>	h <sub>nom</sub>
	mm	mm	mm	mm	mm
ANF-L 10x100	100	10	30	80	70
ANF-L 10x115	115	10	45	80	70
ANF-L 10x135	135	10	65	80	70
ANF-L 10x160	160	10	90	80	70

L - plug length

d<sub>0</sub> - drill diameter

t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - drilling depth

h<sub>nom</sub> - min. installation depth

\* Drilling depth = plug length - fixture thickness + 10 mm

## Base material

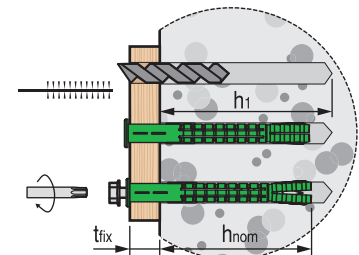
## Permissible tension loads

Base material	Permissible tension loads
	kg
Aerated concrete, class B3,5	120

It is recommended that the facade plug is installed when T > 0°C. In case of sub-zero temperatures keep the plug in a warm place before installation.

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install plug push-through material.
4. Tighten a screw until the screw makes solid contact with plug collar.







polyamide 66

## DF-B Facade plug for push-through installation



Hexagon flange screw SW13, T40

plug material: nylon

screw material: carbon steel with low-temperature  
anti-corrosion treatment



concrete



brick



hollow  
brick



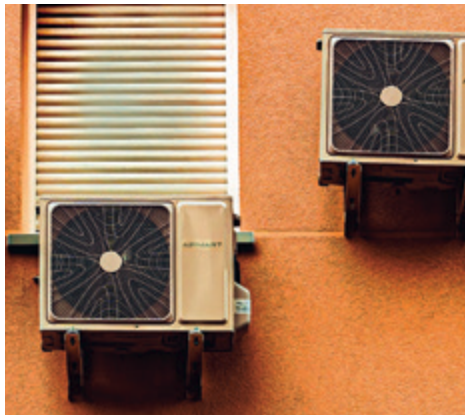
hollow light  
expanded clay



aerated  
concrete



dispatch unit



## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub> *	h <sub>nom</sub>
	mm	mm	mm	mm	mm
DF-B 10x60	60	10	10	60	50
DF-B 10x80	80	10	10	80	70
DF-B 10x100	100	10	30	80	70
DF-B 10x115	115	10	45	80	70
DF-B 10x135	135	10	65	80	70
DF-B 10x160	160	10	90	80	70

L - plug length

d<sub>0</sub> - drill diameter

t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - drilling depth

h<sub>nom</sub> - min. installation depth

\* Drilling depth = plug length - fixture thickness + 10 mm

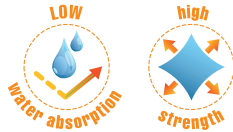
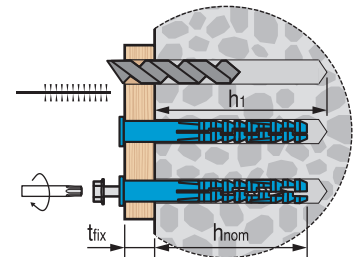
Base material	Permissible tension loads
	kg
Solid concrete, class B25	400
Solid ceramic brick	270
Solid sand-lime brick	200
Hollow light expanded clay	200
Aerated concrete, class B2,5	75
Hollow ceramic or sand-lime brick	60

It is recommended that the facade plug is installed when T > 0°C. In case of sub-zero temperatures keep the plug in a warm place before installation.

If it is not possible to clean the hole, drill it 20 mm deeper. When installing the facade plug in aerated concrete it is recommended drill a 9 mm hole.

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install plug push-through material.
4. Tighten a screw until the screw makes solid contact with plug collar.



## APPLICATIONS



DF-B plug for push-through installation facade substructures. The universal plug for all materials.

The longer body of the plug provides the ability to fasten wide items.

## ADVANTAGES

- Low moisture absorption;
- high plug durability;
- high loads;
- installation in seismic areas up to 9 points;
- the screw design prevents the possibility of damage and guarantees high loads.



## ANF-B Facade plug for push-through installation



Hexagon flange screw SW13, T40

plug material: nylon

screw material: carbon steel with low-temperature  
anti-corrosion treatment



concrete



brick



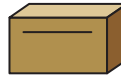
hollow  
brick



hollow light  
expanded clay



aerated  
concrete



dispatch unit



## APPLICATIONS



ANF-B plug for push-through installation facade substructures. The universal plug for all materials.

The longer body of the plug provides the ability to fasten wide items.

## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub> *	h <sub>nom</sub>
	mm	mm	mm	mm	mm
ANF-B 10x60	60	10	10	60	50
ANF-B 10x80	80	10	10	80	70
ANF-B 10x100	100	10	30	80	70
ANF-B 10x115	115	10	45	80	70
ANF-B 10x135	135	10	65	80	70
ANF-B 10x160	160	10	90	80	70

L - plug length

d<sub>0</sub> - drill diameter

t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - drilling depth

h<sub>nom</sub> - min. installation depth

\* Drilling depth = plug length - fixture thickness + 10 mm

Base material	Permissible tension loads
	kg
Solid concrete, class B25	400
Solid ceramic brick	100
Solid sand-lime brick	130
Aerated concrete, class B3.5	120
Hollow ceramic or sand-lime brick	50

It is recommended that the facade plug is installed when T > 0°C. In case of sub-zero temperatures keep the plug in a warm place before installation.

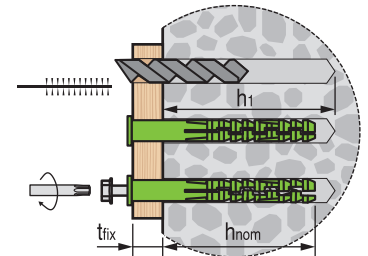
If it is not possible to clean the hole, drill it 20 mm deeper. When installing the facade plug in aerated concrete it is recommended drill a 9 mm hole.

## ADVANTAGES

- High loads;
- the screw design prevents the possibility of damage and guarantees high loads.

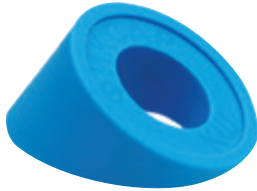
## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install plug push-through material.
4. Tighten a screw until the screw makes solid contact with plug collar.





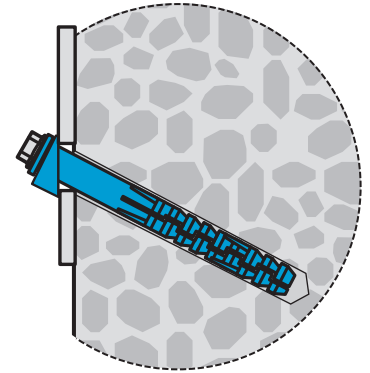
## Beveled collar



collar material: nylon



dispatch unit



## APPLICATIONS



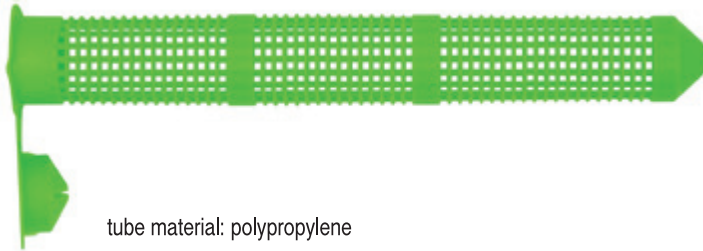
## TECHNICAL DATA

d <sub>1</sub>	d <sub>2</sub>	Tilt angle
mm	mm	
11	22	30°
d <sub>1</sub> - inside diameter	d <sub>2</sub> - outside diameter	

The beveled collar is designed for fixing the DF-B, ANF-B, ANF-L frame plugs at an angle to the material.



## P10 Screen tube



tube material: polypropylene



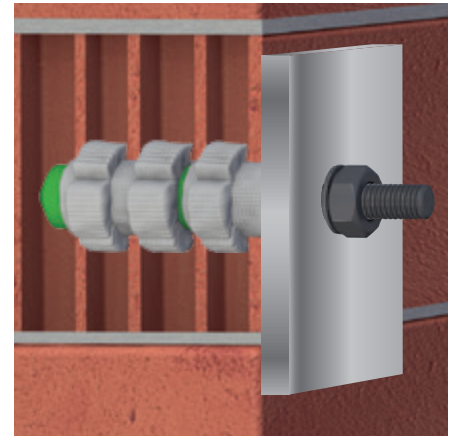
hollow  
brick



hollow light  
expanded clay



dispatch unit



## APPLICATIONS



Suitable for applications in hollow materials in combination with adhesive anchors.

## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	h <sub>1</sub>	d <sub>1</sub>
P8M 50x12	50	12	55	M6-M8
P8V 80x12	80	12	85	M6-M8
P10M 85x16	85	16	90	M10-M12
P10V 130x16	130	16	135	M10-M12

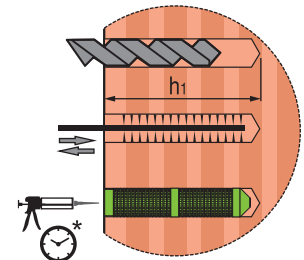
L - plug length                      h<sub>1</sub> - min. drilling depth  
d<sub>0</sub> - drill diameter                      d<sub>1</sub> - anchor diameter

## ADVANTAGES

- Installed in hollow materials;
- It provides uniform coverage of adhesive on the rod and a secure fastening;
- the centring ring holds the anchor rod in place and stops mortar backflow out of the sleeve.

## INSTALLATION

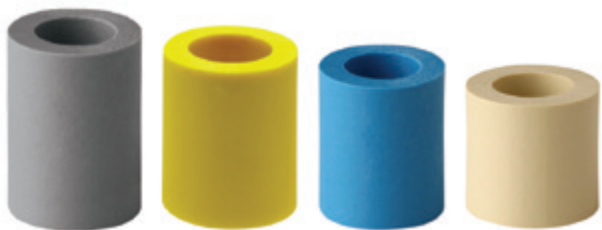
1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install a screen tube.
4. Fill the screen tube completely with adhesive.
5. Push the anchor rod into the sleeve



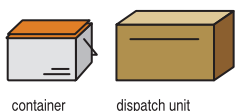
\* subject to the producer's instructions



## Spacer sleeve



material: glass-filled nylon

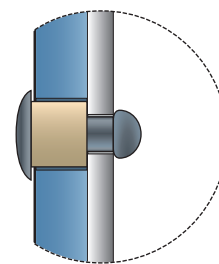
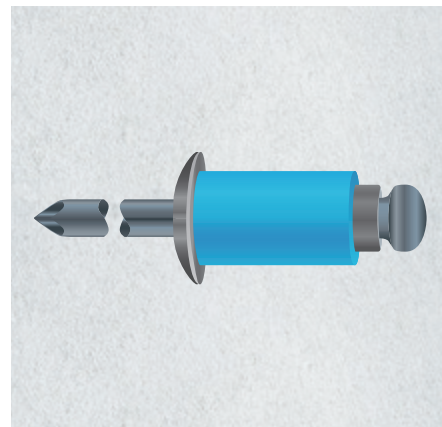
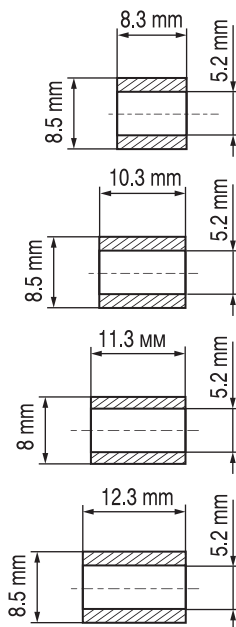


container

dispatch unit

## APPLICATIONS

The sleeve provides solid fastening without damaging the panel. Load of the installed panel is transferred to the spacer sleeve.



## TECHNICAL DATA

TYPE	L	d <sub>1</sub>	d <sub>2</sub>
	mm	mm	mm
8,5/5,2 x 8,3 (beige)	8,3	8,5	5,2
8,5/5,2 x 10,3 (blue)	10,3	8,5	5,2
8,5/5,2 x 11,3 (yellow)	11,3	8,0	5,2
8,5/5,2 x 12,3 (grey)	12,3	8,5	5,2

L - sleeve length  
d<sub>1</sub> - outside diameter  
d<sub>2</sub> - inside diameter



## PDR Cable ties plug weatherproof



material: nylon



concrete



stone



brick



soft package



dispatch unit



## APPLICATIONS



## ТЕХНИЧЕСКИЕ ПАРАМЕТРЫ

TYPE	d <sub>0</sub>	h <sub>1</sub>
PDR	mm 8	mm 41

d<sub>0</sub> - drill diameter

h<sub>1</sub> - min. drilling depth

The PDR plug is designed for wall installations with a cable tie.

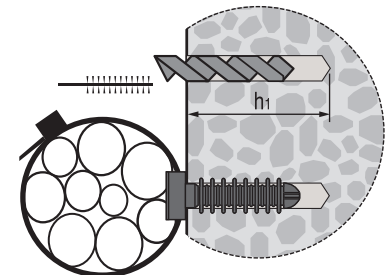
## ADVANTAGES

- Weatherproof;
- setup pad provides the possibility of using a wide range of tie sizes.

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Push the plug.  
Attention to the position of the setup pad slot before mounting.

**DO NOT** tighten the plug!







## PRN Cable ties



material: nylon



soft package

dispatch unit

### APPLICATIONS

Cable ties PRN are used for bundling and securing, for example, cables, pipes and hose. Minimum installation temperature is -5°C. For mounting bundles of wires and cables in solid materials recommend to use the PDR plug.

### ADVANTAGES

- Made from high quality nylon;
- easy installation even with one hand;
- high strength;
- wide temperature range for use.

## PRNS Cable ties weatherproof



### TECHNICAL DATA

TYPE	L	b	d <sub>1</sub>	Strength
				of the tie
	mm	mm	mm	kg
PRNS, PRN 150	150	3,5	3-35	18
PRNS, PRN 200	200	4,8	5-50	22
PRNS, PRN 290	290	4,8	5-80	22
PRNS, PRN 370	370	4,8	5-100	22

L - tie length                      b - tie width                      d<sub>1</sub> - max. bundle diameter





polyamide 66

## PRM Reusable tie



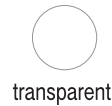
material: nylon



soft package



dispatch unit



transparent



white



grey



black  
weatherproof



orange



green



blue



## APPLICATIONS

Cable ties PRM are used for bundling and securing, for example, cables, pipes and hose, organisation of careful storage, tourism and fishing. Minimum installation temperature is -5°C.

## ADVANTAGES

- The tie has a lock, making it reusable;
- low moisture absorption;
- high durability;
- wide colour palette.

## TECHNICAL DATA

TYPE	L	b	d <sub>1</sub>	Strength of the tie
				kg
PRM 120	120	7,5	10-25	25
PRM 200	200	7,5	10-50	25
PRM 300	300	7,5	10-80	25

L - tie length      b - tie width      d<sub>1</sub> - max. bundle diameter





## PDX Nylon cable clamp



clamp material: nylon



concrete



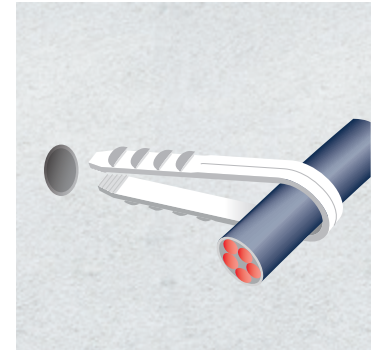
brick



soft package



dispatch unit



## APPLICATIONS



PDX is designed for quick and easy fastening of round cable, metal hose, corrugated hose. The cable clamp installed into a drilled hole with a cable.

## TECHNICAL DATA

Recommended loads  
tension load  
concrete, brick

TYPE	L	d <sub>0</sub>	h <sub>1</sub>	w	d <sub>1</sub>	kg
	mm	mm	mm	mm	mm	
PDX 5-10	46	6	30	11	5 - 10	5
PDX 11-18	54	6	32	15	11 - 18	5
PDX 19-25	64	6	32	23	19 - 25	5

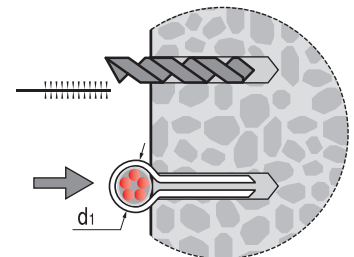
L - plug length  
d<sub>0</sub> - drill diameter  
h<sub>1</sub> - min. drilling depth  
w - width plug  
d<sub>1</sub> - cable diameter

## ADVANTAGES

Fast and durable fastening of cables to solid material without using plugs or screws.

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Push the clamp with the cable.

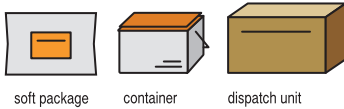




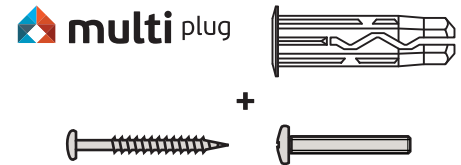
## PDS Saddle mount for cable tie



material: nylon



### RECOMMENDED FASTENERS



### APPLICATIONS

Saddle mount is designed for fixing electrical cables by cable tie.  
Minimum installation temperature is -5°C.

### TECHNICAL DATA

TYPE	screw Ø	screw Ø	b
	mm		mm
<b>PDS</b>	<b>3 - 4,5</b>	<b>M3 - M4</b>	<b>8,5</b>
Ø - diameter	b - max. cable tie width		

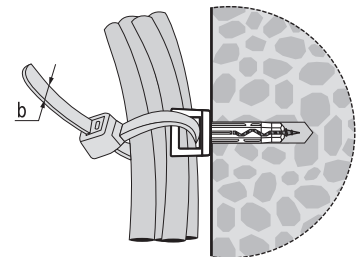
### ADVANTAGES

- Wide range of cable or pipe Ø to be attached (diameter limited by the tie length);
- two cable ties can be used in one fixing;
- mounting is possible on horizontal and vertical surfaces;
- adjustment mount .

### INSTALLATION

1. Attach the saddle mount to the base.
2. Fix the pipe or cable with a cable tie.

**The recommended distance between fixing points is 500 mm.**

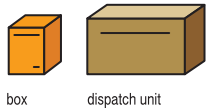


## PSC Nail clip



clip colour: white, black, grey, transparent

clip material: polypropylene  
nail material: steel, zinc plated



box      dispatch unit



Polypropylene clip with hardened steel nail for round cables used in electrical installations indoors. One size covers many cable diameters.

### ADVANTAGES

- Easy installation;
- wide range of attached cable Ø.

TYPE	Ø cable
	mm
PSC 3x5	flat 3x5
PSC 4x6	flat 4x6
PSC 6x9	flat 6x9
PSC 3-5	3-5
PSC 4-6	4-6
PSC 5-7	5-7
PSC 7-10	7-10
PSC 8-12	8-12
PSC 10-14	10-14
PSC 14-20	14-20
PSC 18-22	18-22
PSC 20-26	20-26

Ø - diameter

## PDSC 6x25 Nail clips plug



plug material: polyethylene



concrete

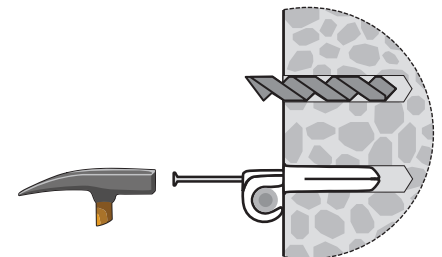
brick

dispatch unit

Plug for attaching fixing clips PSC into solid materials such as concrete and brick.

### INSTALLATION

1. Drill the hole Ø 6 mm.  
The minimal drilling depth is 30 mm.
2. Install a plug.
3. Hammer the nail.



# Adjustable cable clamp



## PDF Adjustable cable clamp



clamp material: nylon



soft package



dispatch unit

## APPLICATIONS

indoor works

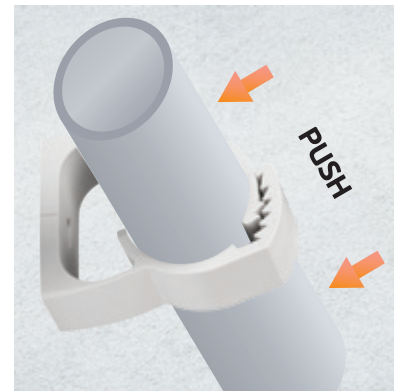


Adjustable cable clamp is designed for fixing copper, steel, plastic pipes and electrical cables.

## ADVANTAGES

- Securely locked with a lock;
- fastening in horizontal and vertical surfaces of the base material;
- reusability.

## RECOMMENDED FASTENERS



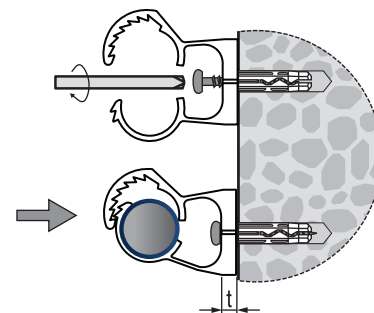
## TECHNICAL DATA

TYPE	pipe / cable Ø	t	plug Ø	screw Ø	screw
	mm	mm	mm	mm	
PDF 14 - 18	14 - 18	5	5 - 6	3,5	M3
PDF 20 - 25	20 - 25	5	5 - 6	3,5	M3
PDF 26 - 32	26 - 32	5	5 - 6	3,5	M3
PDF 35 - 42	35 - 42	5	5 - 6	3,5	M3

Ø - diameter      t - pad thickness

## INSTALLATION

1. Attach the clamp to the base.
2. Push the pipe or cable.



The recommended distance between fixing points is 500 mm.



polyamide 66

## PRNT Fastening tie with saddle mount



white



grey

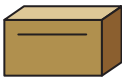


black  
weatherproof

tie material: nylon



soft package



dispatch unit

### TECHNICAL DATA

TYPE	pipe / cable Ø	b	Strength of the tie
	mm	mm	kg
PRNT 16-32	16÷32	7,7	40
PRNT 32-63	32÷63	7,7	40

Ø - diameter  
b - tie width

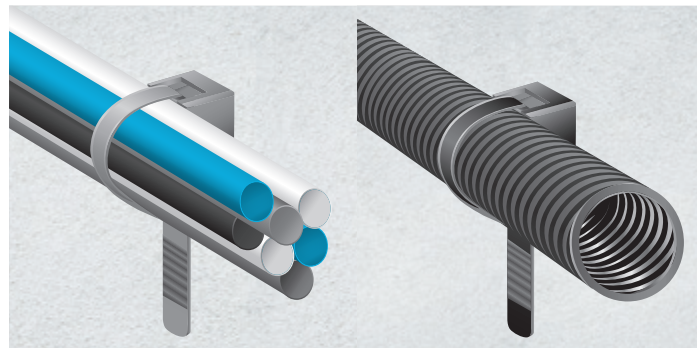
### APPLICATIONS

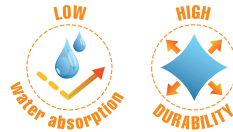
The tie is designed for fixing water and sewer pipes, corrugated hose and electrical wires to any material.

Minimum installation temperature is -5°C.

### ADVANTAGES

- Adjustable attachment;
- low moisture absorption;
- high durability.





Delivery options:

- multi plug and screw kit;
- without kit.



## ATTACHMENT KIT:

MULTI PLUG 6

Screw 4x30



 **multi plug**

## ANY WALLS



concrete



brick



lightweight  
concrete



aerated  
concrete



plasterboard,  
timber-based boards



40

40

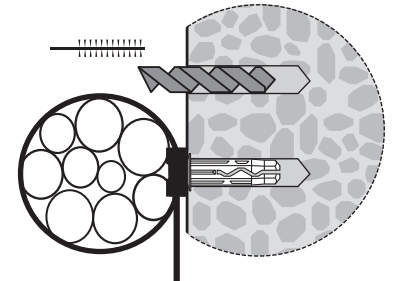
12

20

15

## INSTALLATION

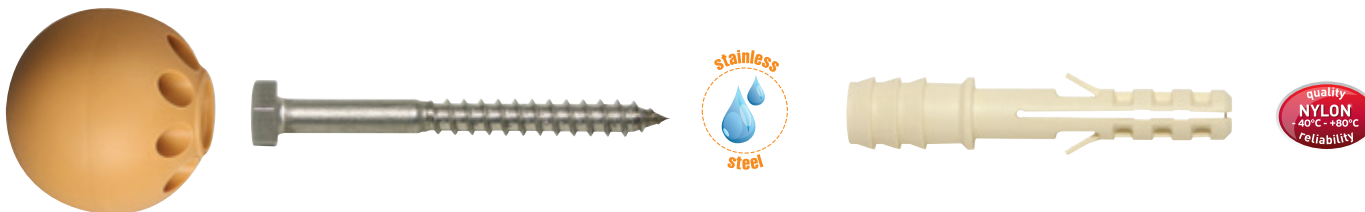
1. Drill the hole  $\varnothing$  6 mm for solid material ( $\varnothing$  5 mm for aerated concrete). Minimum drilling depth 30 mm.
2. Clean the hole.
3. Attach the fastening tie to the base.
4. Fix the cable, pipe or hose.



The recommended distance between fixing points is 500 mm.



## TSM Doorstop



plug material: nylon  
screw material: stainless steel  
doorstop material: thermoplastic elastomere



concrete



stone



blister



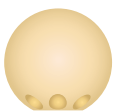
dispatch unit



White



Grey



Pine



Beech



Cherry



Dark brown



Black

Kit:  
Doorstop - 1 pc;  
nylon plug - 1 pc;  
stainless steel screw - 1 pc.

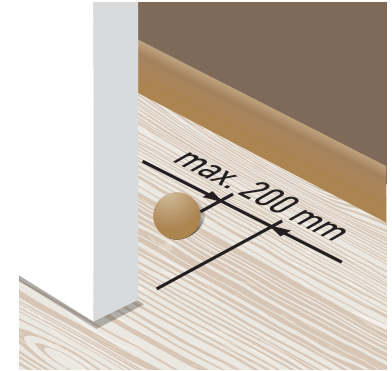


## APPLICATIONS



The kit includes a nylon plug, a stainless steel screw and a decorative doorstop in different colours. The 35 mm diameter doorstop is thermoplastic elastomere.

The product is suitable for living rooms and offices. Easy installations and easy removing.

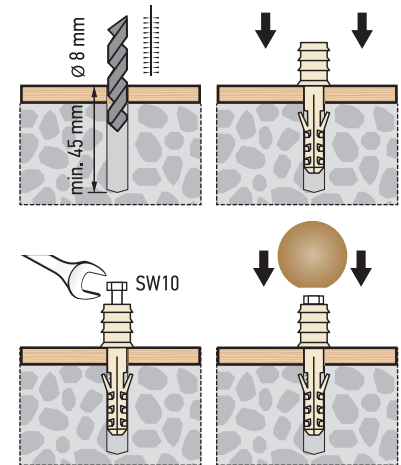


## ADVANTAGES

- Resistant to temperature changes;
- the door is protected from damage due to the high elasticity of the doorstop material;
- the kit can be used in high moisture.

## INSTALLATION

1. Drill the hole  $\varnothing 8$  mm for solid material. Minimum drilling depth 45 mm. The recommended distance from the centre of the hole to the edge of the door is no more than 200 mm.
2. Clean the hole.
3. Install a plug.
4. Tighten the screw using a SW10 wrench.
5. Push the doorstop before fixing.



## Mirror mounts



sleeve, cap material: ABS  
plug material: nylon  
screw material: steel, zinc plated



blister



dispatch unit



## ATTACHMENT KIT

MULTI PLUG 6

Screw 3,5x30 mm



 multi plug

## ANY WALLS



concrete



brick



hollow  
brick



plasterboard,  
timber-based boards



aerated  
concrete



Ø 6 mm



Ø 5 mm

Kit:

sleeve - 4 pcs.; cup - 4 pcs.;  
MULTI PLUG 6x25 mm - 4 pcs.;  
screw 3,5x30 mm - 4 pcs.



Delivery options:

- multi plug and screw kit;
- without kit.

TYPE	Ø
	mm
<b>Mirror mounts kit (matt chrome, smooth)</b>	<b>18</b>
<b>Mirror mounts kit (chrome, smooth)</b>	<b>18</b>
<b>Mirror mounts kit (chrome, ribbed)</b>	<b>18</b>
<b>Mirror mounts kit (gold, smooth)</b>	<b>18</b>
<b>Mirror mounts kit (gold, ribbed)</b>	<b>18</b>
<b>Mirror mounts kit (white, smooth)</b>	<b>18</b>
<b>Mirror mounts kit (white, ribbed)</b>	<b>18</b>
<b>Mirror mounts kit (black, smooth)</b>	<b>18</b>
<b>Mirror mounts kit (black, ribbed)</b>	<b>18</b>

Ø - diameter

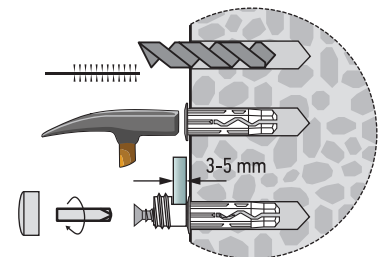
## APPLICATIONS

The cap is coated with one-component enamel. The coating is resistant to alcoholic, creams, detergents and abrasion.

The MULTI PLUG allows fixing in any materials. One attachment kit is designed to fit a mirror up to 5 mm thick and 1 m<sup>2</sup> a total area.

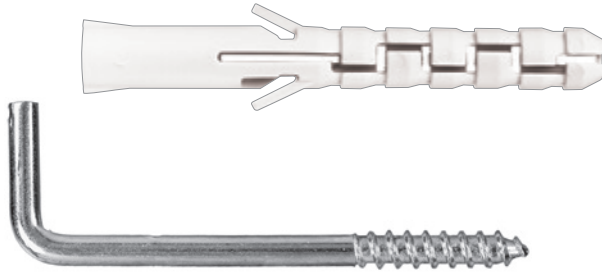
## INSTALLATION

1. Drill the hole Ø 6 mm for solid material (Ø 5 mm for aerated concrete). Minimum drilling depth 30 mm.
2. Clean the hole.
3. Install the plug.
4. Tighten the screw push-through a sleeve.
5. Tighten the cap.

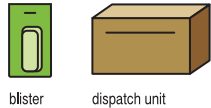


## Boiler mounting

### PWB 100

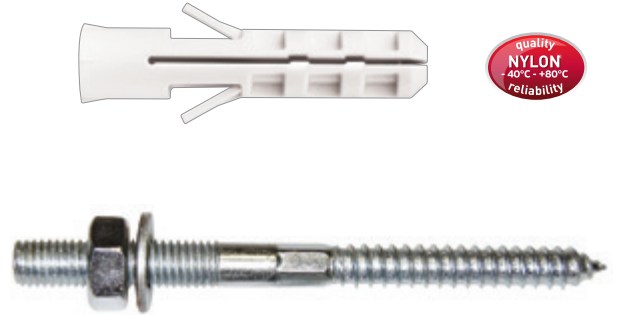


plug material: nylon  
hook material: steel, zinc plated

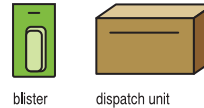


Kit PWB 100:  
nylon plug - 2 pcs.;  
hook - 2 pcs.

### PWB 200



plug material: nylon  
hanger bolt material: steel, zinc plated  
washer, nut material: steel, zinc plated



Kit PWB 200: nylon plug - 2 pcs.;  
hanger bolt - 2 pcs.; washer - 2 pcs.;  
nut - 2 pcs.  
Flange TORX T25.

## TECHNICAL DATA

TYPE	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	SW	Recommended boiler volume
	mm	mm	mm	mm	mm	lit
PWB 100	80	10	2 - 10	85	13	up to 100
PWB 200	70	14	2 - 30	75	13	up to 200

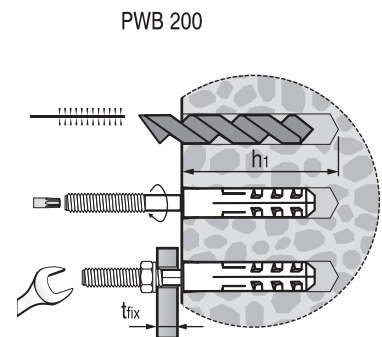
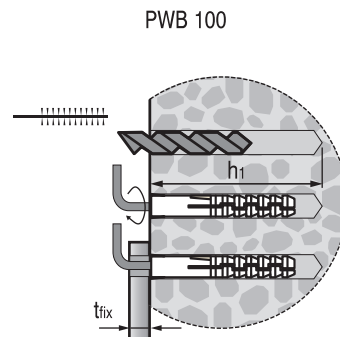
L - plug length  
d<sub>0</sub> - drill diameter  
t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - min. drilling depth  
SW - wrench size

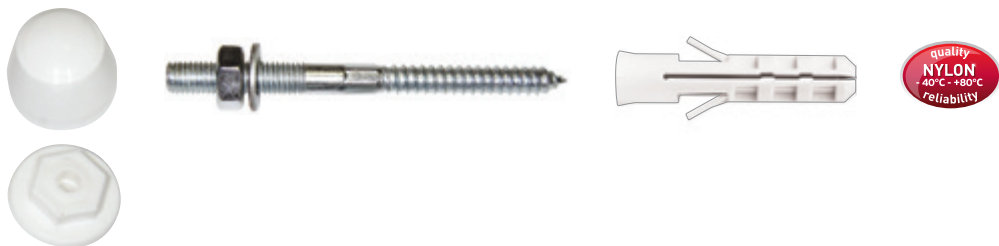


## INSTALLATION

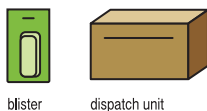
1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install the plug.
4. Tighten the hook (PWB 100) | Tighten the hanger bolt (PWB 200).
5. Install the boiler | Tighten the nut.



## PWR Shell mounting



plug material: nylon  
hanger bolt, washer, nut  
material: steel, zinc plated  
sleeve, cap material: polyethylene



### TECHNICAL DATA

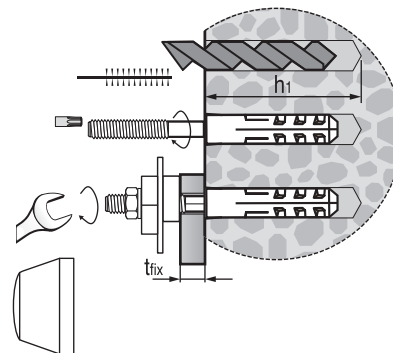
ТИП	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	SW	Recommended loads
						tension load concrete
						kg
PWR 20	50	10	10 - 20	55	13	100
PWR 30	50	10	10 - 30	55	13	100
PWR 50	60	12	10 - 50	65	13	150
PWR 70	60	12	30 - 70	65	13	150

L - plug length  
d<sub>0</sub> - drill diameter  
t<sub>fix</sub> - max. fixture thickness

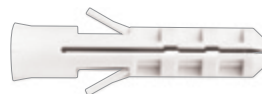
h<sub>1</sub> - min. drilling depth  
SW - wrench size

Attachment kit PWR: nylon plug - 2 pcs.,  
hanger bolt - 2 pcs.; washer - 2 pcs.; nut - 2 pcs.;  
sleeve and cap - 2 pcs.  
TORX T25 flange.

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install the plug.
4. Tighten the hanger bolt.
5. Install a shell. Tighten the sleeve.
6. Tighten the nut. Push the cap.



## PWC WC and urinal mounting

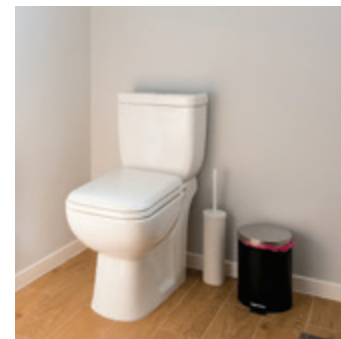


white cup



chrom cup

plug material: nylon  
screw, washer: stainless steel  
sleeve, cap material: polyethylene



concrete

stone

brick



blister



dispatch unit

### TECHNICAL DATA

Тип	L	d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>	SW	Recommended loads
						tension load
						concrete
						kg
PWC 20	65	8	10 - 20	75	10	60
PWC 40	40	8	20 - 40	65	10	60

L - plug length

d<sub>0</sub> - drill diameter

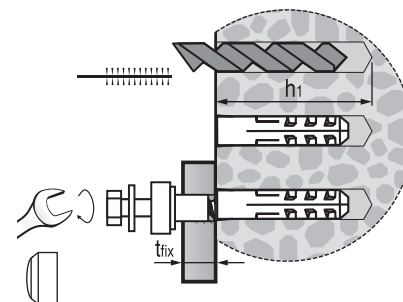
t<sub>fix</sub> - max. fixture thickness

h<sub>1</sub> - min. drilling depth

SW - wrench size

Kit PWC:  
nylon plug - 2 pcs.;  
hanger bolt - 2 pcs.; washer - 2 pcs.;  
sleeve - 2 pcs.; cap - 4 pcs.

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install the plug.
4. Install the WC. Push the sleeve.
5. Tighten the screw. Push the cap.





## Installer's kit

MULTI SCREW



MULTI PLUG



+

TORX bit



plug material: nylon  
screw material: steel, zinc plated

## ANY WALLS



concrete



stone



brick



hollow  
brick



aerated  
concrete



plasterboard,  
timber-based boards



blister



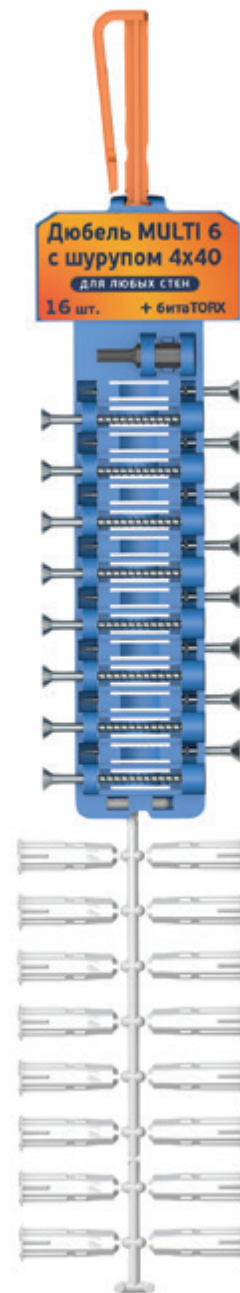
dispatch unit

Installer's kit:  
nylon plug - 16 pcs.;  
screw - 16 pcs.; bit - 1 pcs.

## APPLICATIONS



The design plug features provides to attaching to any walls.



## ADVANTAGES

- Easy to use;
- the hexagonal shape prevents from twisting plug;
- collar prevents from slipping plug into the hole;
- professional screws provide secure and easy installation;
- torx screw;
- zinc plated of screw.


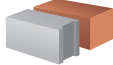



## TECHNICAL DATA

TYPE	Plug	Screw	Install		
			d <sub>0</sub>	t <sub>fix</sub>	h <sub>1</sub>
	Ø x L mm	Ø x L mm	mm	mm	mm
multi 6 / 4x40	6x25	4x40	6(5*)	10	30
multi 6 / 4x45	6x25	4x45	6(5*)	20	30
multi 8 / 4x40	8x32	4x40	8(6*)	10	37
multi 8 / 4x50	8x32	4x50	8(6*)	20	37

Ø - diameter  
 L - length  
 d<sub>0</sub> - drill diameter

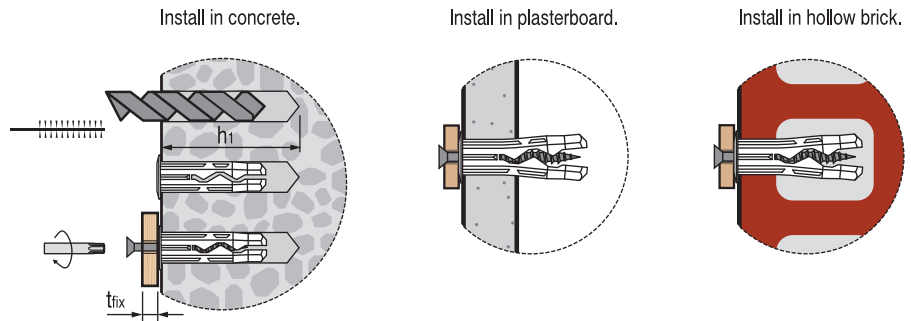
t<sub>fix</sub> - max. fixture thickness  
 h<sub>1</sub> - min. drilling depth  
 \* - for expanded clay and aerated concrete

## RECOMMENDED TENSION LOAD

	 kg	 concrete, brick	 hollow brick	 expanded clay/aerated concrete	 plasterboard 1 sheet / 2 sheets
multi 6		60	40	12 / 15 / 25	15 / 25
multi 8		90	60	20 / 30 / 35	18 / 30

## INSTALLATION

1. Drill the hole in accordance with table ( d<sub>0</sub>, h<sub>1</sub> ).
2. Clean the hole.
3. Install a plug.
4. Tighten the screw through the attached material.



# Hole plug

## Decorative hole plug



plug material: polyethylene



dispatch unit



White



Light grey



Birch



Grey



Pine



Mahogany



Beech



Light brown



Cherry



Brown



Oak



Dark brown



Rustic oak



Black

## Decorative hole plug for hexagonal socket confirmat screw



plug material: polyethylene



dispatch unit

Decorative hole plug  
for wooden surfaces.

### Hole plug

TYPE	hole Ø
	mm
D 8	8
D 10	10
D 12	12
D 14	14

Ø - diameter

### Decorative hole plug for hexagonal socket confirmat screw

TYPE	hole Ø
	mm
ST 5	3
ST 7	4

Ø - diameter

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Mitutoyo Crysta-Apex V7106

EA125

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Toolroom Lathes CNC **HAAS TL-1**;

Horizontal Machining Center **QUASER MK60**;

Electro-erosion copy-piercing machines **Mitsubishi EA12S**, **Sodick AM3L LN2**;

EDM Wire Cutting machines **Mitsubishi MV2400R**;

Electroerosion start-hole drilling CNC machine **Mitsubishi Start 43C**;

Coordinate measuring machine **Mitutoyo Crysta-Apex V7106**;

Flat grinding machine;

High-precision cut-off and grinding machine **Meusburger GMT-6000**;

Multifunctional laser machining machine **HTS PORTAL S**.



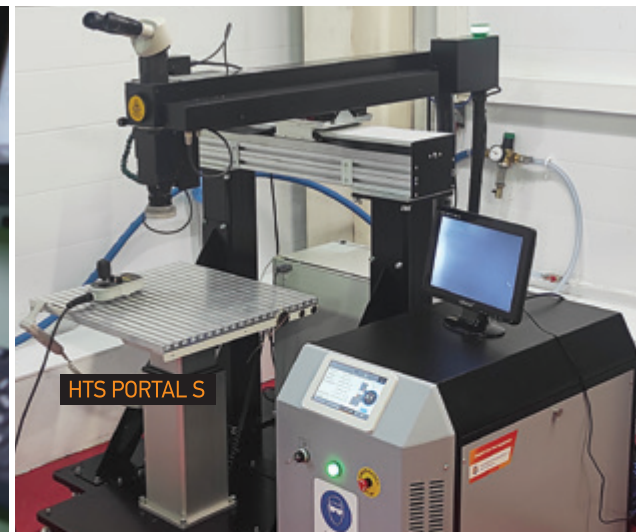
Haas VF3



Mitsubishi EA12S



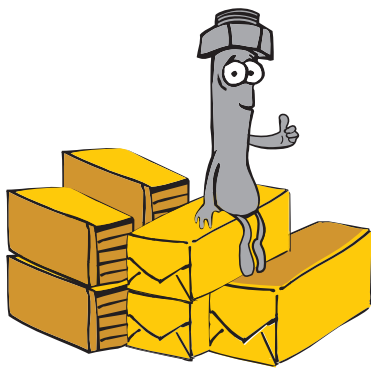
Mitsubishi SG-8S



HTS PORTAL S



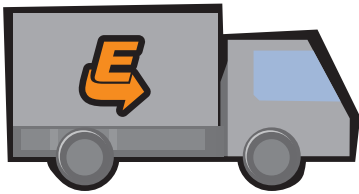
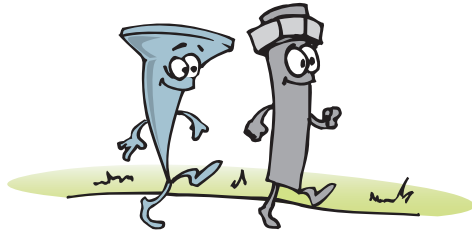
# KANBAN



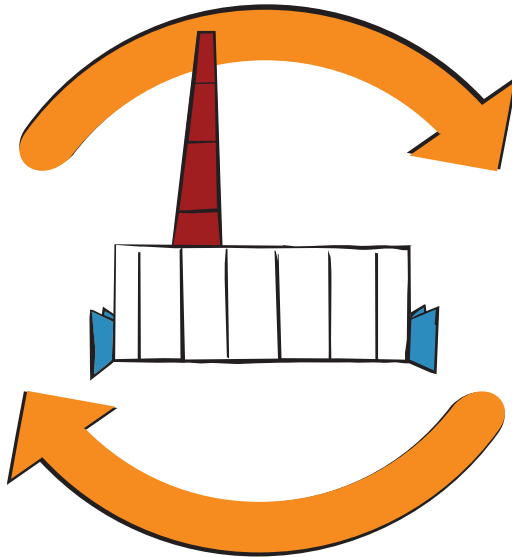
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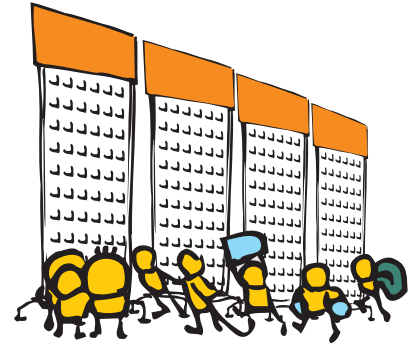
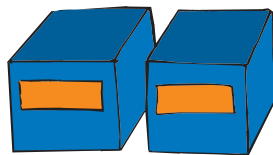
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for him

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drill

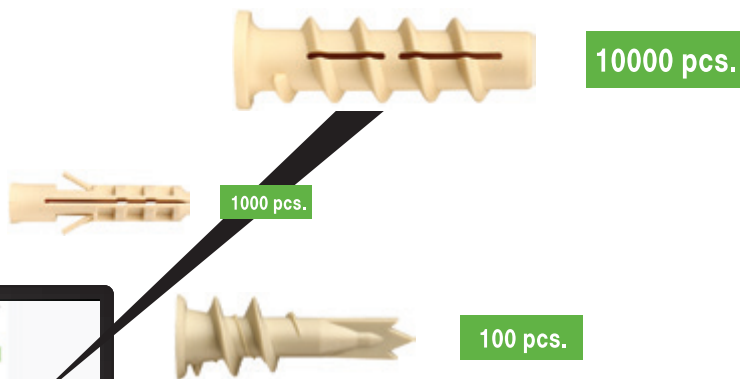


screw-driver



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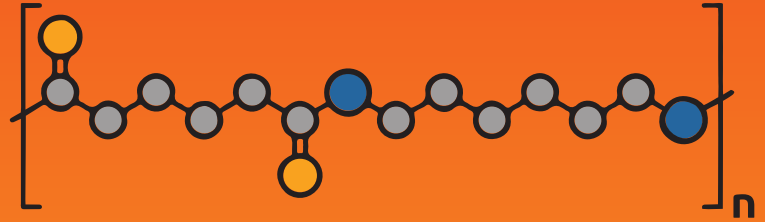


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