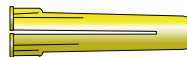


# Screw plug TP

## General information:

The plug is colour marked to make it easier to find the right dimension.



## Field of application:

The TP plug is a screw plug meant for fastening in concrete, brick and light concrete.

## Material:

Polyethylene.

Range of temperature: -50°C to +80°C.

**Table 157 Technical data**

Product denomination	Colour	Plug length mm	Drill Ø Concrete/light concrete mm	Min drilling depth mm	Wood screw no/Ø mm	Practical load capacity with largest screw*) Shear load/pull load		
						Concrete K25 kN	Solid brick kN	Light concrete 500 and haydite kN
TP 0	White	17	5,5/-	20	6-10/3,5-5	0,4/0,15	0,3/0,15	-
TP 1	Yellow	22	5,5/5	25	6-10/3,5-5	0,5/0,25	0,4/0,2	0,1/0,05
TP 2	Red	35	5,5/5	40	6-10/3,5-5	0,6/0,4	0,5/0,3	0,15/0,05
TP 2B	Brown	40	8/7	45	10-14/5-6	1,2/0,8	0,7/0,4**)	0,25/0,1
TP 3	Blue	46	10/9	50	10-16/5-7	1,4/1,0	-	0,3/0,15
TP 4	Green	59	12/10	65	- /8-10	3,0/2,0	-	0,5/0,25
TP 14	Grey	70	14/-	78	- /10-12	4,0/2,5	-	-
TP 16	Orange	80	16/-	88	- /12	5,0/3,0	-	-
TP 20	Black	100	20/-	108	- /16	6,0/4,5	-	-

\*) A weaker screw gives lower values.

\*\*) Screw no. 12.

If long-time load with pulling load or if temperatures are above normal, choose a larger number of, or, fasteners made of metal.

# Nylon plug

## General information:

The nylon plug is suitable for cut-off assemblage because it has no collar.

Outward flanges prevent rotation in porous materials.



## Field of application:

The nylon plug is meant for fastening in concrete, natural stone, brick, light concrete and leca.

## Material:

Polyamide.

Range of temperature: -40°C to +85°C.

**Table 158 Technical data**

Dimension d	Drilling diameter	Screw diameter mm	Breaking value kN Brick	Concrete
5 x 25	5	2,5-4,0	2,0	2,2
6 x 30	6	3,5-5,0	3,2	3,6
8 x 40	8	4,5-6,0	5,0	5,5
8 x 65 (long)	8	4,5-6,0	5,0	5,5
10 x 50	10	6,0-8,0	7,0	10
10 x 80 (long)	10	6,0-8,0	7,0	10
12 x 60	12	8,0-10,0	8,5	14

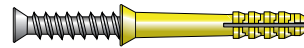
The screw has to be screwed 0,8-1,0 times the length of the plug. The value presented in the table above is actual

rupture limits. To compute an allowed load we suggest a safety factor of 3-6 times the values in the table.

# Nail plug

## General information:

The plug is delivered as a complete assembly kit where the nail is fastened in the plug. The nail plug is driven in with a hammer and is possible to screw off when disassembling.



## Field of application:

The nail plug is used for assembly of bases, mouldings, kitchen cabinet making etc. The plug is used in concrete, brick and natural stone.

## Material:

Plug: Polyamide.

Nail: Steel, zincplated or laquered.

Range of temperature: -40°C up to +80°C.

**Table 159 Practical carrying capacity**

Dimension mm	Installation depth mm	Concrete/Brick Pull load kN	Shear load kN
5	20	0,20	0,28
6	30	0,26	0,40
8	40	0,40	0,64
10	45	0,50	0,78

# Facade plug

## General information:

The facade plug consists of a screw and a nylon plug. Outward placed clips prevent the plug from rotating in holes or porous material.



## Field of application:

The facade plug is available in two performances, the first for assembly in concrete, brick and calcareous sandstone. The second is suitable for assembly in light concrete, light clinker (leca) and hollow block.

## Material:

Plug: Polyamide.

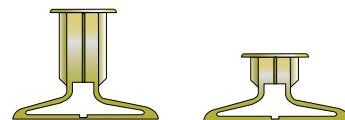
Screw: Steel, zincplated, hot dip galvanized or stainless/acid-proof.

Range of temperature: -40°C up to +85°C.

# Drywall plug

## General information:

The plug has a plane head and collar with lock levers. It is available in various dimensions with grip area 3 mm - 27 mm.



## Field of application:

The drywall plug is meant for assembly in gypsum and particle boards.

## Material:

Plug: Polyamide.

Range of temperature: -30°C to +120°C.

## Withdrawing values

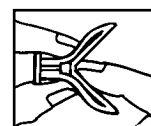
Values below are measured in laboratory tests. Usable values are gained by dividing the actual value by four; i.e. the usable value is 25% of the table value. When testing screw 10 has been used.

**Table 160**

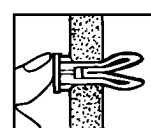
Material	Gross loads kN	
	Shearing force	Pulling force
Gypsum 13 mm	0,37 (10 kg)	0,16 (4,5 kg)
Gypsum 26 mm (2x13)	0,65 (17,5 kg)	0,26 (7 kg)
Particle board 12 mm	0,66 (17,5 kg)	0,26 (7 kg)

Safety factor 2,5 for shearing force, 3,0 for pulling force.

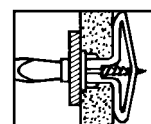
## Assembly instruction



1. Drill hole Ø 8 mm. Press the drywall plug together.



2. Press the plug in.



3. Tighten the screw until it touches the surface. Then turn the screw another 360°, not more.