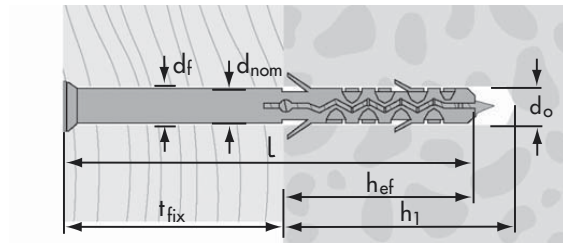
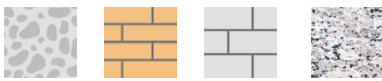


No.	Name	Material
1	Nylon Plug	Polyamide PA 6
A)	Screw T30 / T40	Zinc plated steel
B)	Screw Hexagon	Zinc plated steel



No.	Name	Material
C)	Screw PZ2 / PZ3	Zinc plated steel

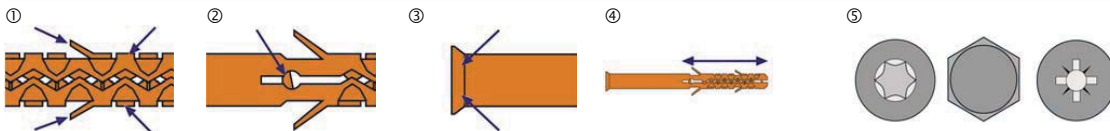
Building materials



Approvals



Characteristics



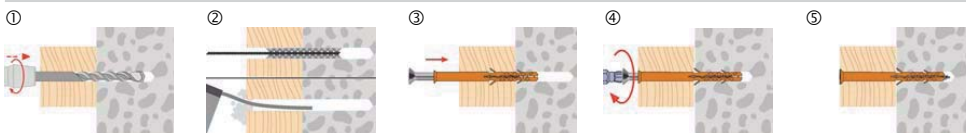
- ① Wings and block profile avoid rotation and hold plug firmly in position.
- ② Knock-in protection prevents premature expansion.
- ③ The countersunk collar prevents the plug from gliding into the hole.
- ④ Fixing with normal expansion zone for solid building materials.
- ⑤ From the left to the right: -Countersunk T / -Screw Hexagon / -Countersunk PZ

Applications



- ① Easy fastening through wooden building material in concrete.
- ② Easy fastening through metal in other solid building materials.
- Suitable for all through fixing applications.
- Outside and inside applications.
- For roof, wall and ceiling.
- For wood and metal.
- For all hand craft-sectors.

Installation



- ① Position the Building materials and drill the hole simultaneously through the Building materials into the building material. Take drill hole-Ø and -depth from the table.
- ② Clean the drill hole with a brush, then blow it out with a purging pump.
- ③ Insert the Nylon Frame Plug with a pre-assembled screw.
- ④ Fasten the Building materials with the screw.
- ⑤ Tighten the screw.

All information detailed in our data sheets is based on technical approvals, formulas and site and laboratory testing under optimum conditions and include a stated safety factor. As we have no direct or indirect control over where or how our products are applied or installed, we do not accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us and we recommend site testing of all products for suitability.

Plug size		6	8		10											
Approved tension loads:																
N _{Zul}	- Concrete ≥ C20/25	kN	-		0.5		0.8									
	- Brick		-		0.4		0.6									
	- Sandstone		-		0.4		0.6									
	- Natural stone		-													
Approved bending moment		Nm														
M _{Zul,s}	- Galvanised steel	kN	FZ = 0		-		5.7		7.9							
			FZ = 0.5		-		5.4									
			FZ = 0.8		-				7.3							
	- Stainless steel		FZ = 0		-		5.3		7.4							
			FZ = 0.5		-		5.0									
			FZ = 0.8		-				6.8							
h _{ef}	Effective anchorage depth	mm	50		50		50									
h ₁	Drill hole depth	mm	60		60		60									
d ₀	Drill hole-Ø in the building material	mm	6		8		10									
d _f	Drill hole-Ø in the extension part	mm	6		8		10									
l	Plug length	mm	55	60	80	100	120	140	60	80	100	120	140	160	200	240
d _{nom}	Plug-Ø	mm	6		8		10									
t _{fix}	Assembling length usable	mm	5	10	30	50	70	90	10	30	50	70	90	110	150	190



Nylon Frame Plug

1) Drive PZ2 / 2) Drive T30
FZ = existing central traction

Recommended loads

Plug length		6	8		10							
Recommended tension loads ¹⁾ :												
N _{Emp}	- Concrete ≥ C20/25	kN	1.6		1.6		2.1					
	- Brick		1.4		1.4		1.6					
	- Sandstone		1.2		1.2		1.5					
	- Natural stone											

1) Safety factor 3

Safety screws A4



Safety screws stainless A2 available on request.

Screws stainless steel / hot dip galvanised

Screws alloyed stainless or hot dip galvanised have to be ordered as single parts, available as T40 and Hexagon (see accessoires).

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