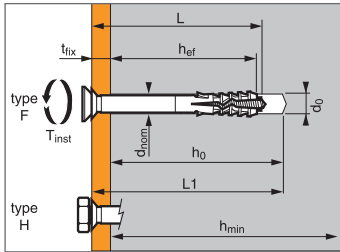




SOCOTEC

N° NPO 029



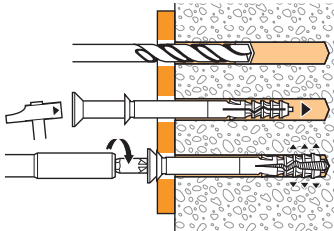
Applications

- Fixing wall plates
- Fixing frames and sub-frames
- Sanitary equipment

Material

- Body: polyamide 6
- Screw head type F (TORX n°40) or H

Installation



For aerated concrete, drill with a drill bit diameter equal to 9 mm

Spacing data

In Concrete

SPIT NYLONG	Minimum distance between anchors and from edges (mm)		
	Ccr,N	Ccr,V	Scr,N
10-60	mini	mini	
10-80			
10-100			50
10-115	50		
10-135	50	50	
10-160			

In Masonry

The anchor must be installed at the minimum distance of 100mm from another anchor or an edge.

Nylon frame anchor

Technical data

SPIT NYLONG	Anchor depth (mm)	Maximum thick of part to be fixed (mm)	Anchor OD (mm)	Minimum thick of base material (mm)	Ø drill bit (mm)	Drilling depth (mm)	Min. drill depth through part to be fixed (mm)	Total sleeve length (mm)	Tightening torque (Nm)	Eurocode	
	h_{ef}	t_{fix}	d_{nom}	h_{min}	d_o	h_o	L1	L	T_{inst}	Head type F	Head type H
10-60		10						70	60		057290
10-80		30						90	80		057210
10-100	50	50	10	100	10	60	110	100	8,5	057220	057160
10-115		65						125	115		057230
10-135		85						145	135		057240
10-160		110						170	160		057250

Ultimate loads ($N_{Ru,m}$, $V_{Ru,m}$)

TENSILE IN kN

Base material	Anchor size 10-60 ; 10-80 ; 10-100	10-115 ; 10-135 ; 10-160
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Concrete (C20/25)

$N_{Ru,m}$ 6,1

Solid concrete blocks type B120 ($f_c = 13,5 \text{ N/mm}^2$)

$N_{Ru,m}$ 5,2

Clay bricks ($f_c = 55 \text{ N/mm}^2$)

$N_{Ru,m}$ 6,1

Hollow concrete blocks type B40 not rendered ($f_c = 6,5 \text{ N/mm}^2$)

$N_{Ru,m}$ 1,12

Hollow clay bricks type Eco-30 not rendered ($f_c = 4,5 \text{ N/mm}^2$)

$N_{Ru,m}$ 1,64

Aerated concrete ($M_{vn} = 500 \text{ kg/m}^3$)

$N_{Ru,m}$ 1,35

SHEAR IN kN

10-60 ; 10-80 ; 10-100	10-115 ; 10-135 ; 10-160
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$V_{Ru,m}$ 13,0

$V_{Ru,m}$ 11,5

$V_{Ru,m}$ 13,0

$V_{Ru,m}$ 5,52

$V_{Ru,m}$ 2,58

$V_{Ru,m}$ 2,3

Design loads (N_{Rd} , V_{Rd}) and Recommended loads (N_{Rec} , V_{Rec}) for one anchor without edge or spacing influence

$$N_{Rd} = \frac{N_{Ru,m}^*}{3,5} ; N_{Rec} = \frac{N_{Ru,m}^*}{5}$$

$$V_{Rd} = \frac{V_{Ru,m}^*}{3,5} ; V_{Rec} = \frac{V_{Ru,m}^*}{5}$$

*Derived from test results

TENSILE IN kN

Base material	Anchor size 10-60 ; 10-80 ; 10-100	10-115 ; 10-135 ; 10-160
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Concrete (C20/25)

N_{Rd} 1,9

N_{Rec} 1,35

Solid concrete blocks type B120 ($f_c = 13,5 \text{ N/mm}^2$)

N_{Rd} 1,61

N_{Rec} 1,15

Clay bricks ($f_c = 55 \text{ N/mm}^2$)

N_{Rd} 1,9

N_{Rec} 1,35

Hollow concrete blocks type B40 not rendered ($f_c = 6,5 \text{ N/mm}^2$)

N_{Rd} 0,35

N_{Rec} 0,25

Hollow clay bricks type Eco-30 not rendered ($f_c = 4,5 \text{ N/mm}^2$)

N_{Rd} 0,5

N_{Rec} 0,35

Aerated concrete ($M_{vn} = 500 \text{ kg/m}^3$)

N_{Rd} 0,42

N_{Rec} 0,3

SHEAR IN kN

10-60 ; 10-80 ; 10-100	10-115 ; 10-135 ; 10-160
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V_{Rd} 3,6

V_{Rec} 2,6

V_{Rd} 3,2

V_{Rec} 2,3

V_{Rd} 3,6

V_{Rec} 2,6

V_{Rd} 1,54

V_{Rec} 1,1

V_{Rd} 0,72

V_{Rec} 0,5

V_{Rd} 0,64

V_{Rec} 0,46