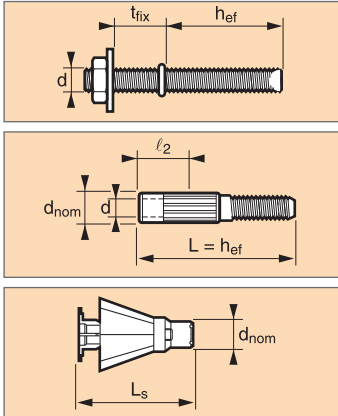




SOCOTEC
N° QX 0070



Chemical fixing of threaded and tapped studs in hollow materials

Technical data

SPIT SATELIS	Anchor depth (mm)	Max thick of part to be fixed (mm)	Ø drill bit (mm)	Drilling depth (mm)	Ø thread (mm)	Length of satelis without stress (mm)	External diameter of satelis (mm)	Stud length (mm)	External diameter of socket (mm)	Thread length of socket (mm)	Max tightening torque (Nm)	Eurocode
	h_{ef}	t_{fix}	d_o	h_o	d	L_s	d_{nom}	L	d_{nom}	l_2	T_{inst}	
Stud	M8	10			8			80		-	10	062300
	M10	18			10			90		-	20	062310
	M12	25	20	80	12	60	20	100		-	20	062320
Socket	M6	-			6			58	12	15	8	062340
	M8	-			8			58	12	20	10	062350
	M10	-			10			58	12	23	20	062360
EPOMAX resin		- vol. 150 ml - vol. 345 ml - vol. 380 ml										050883 050884 050885

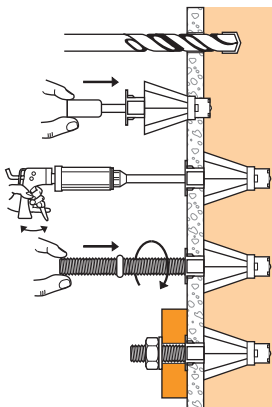
Applications

- Signs
- Scaffolding
- Electrical switchboards
- Radiators
- Frames
- Air conditioning ducts
- Rail guard returns
- Blinds
- Climbing walls
- Metal scales
- Hand rails
- Poles and ducts
- Demountable partitions
- Kitchen furniture
- Decoration

Material

- Container polypropylene
- Spring screen polyacetal
- Stud, zinc coated steel S300Pb EN 10087
- Nut, zinc coated steel stainless steel
- Washer zinc coated steel NF EN 10025

Installation



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

TENSILE in kN

SHEAR in kN

Base material	Anchor size	Stud M8-M10-M12		Socket M6 M10 M12			
		Stud M8-M10-M12	Socket M6-M8-M10	Stud M8 M12	Socket M6	M10	M12
Hollow concrete blocks type B40 not rendered ($f_c = 6,5 \text{ N/mm}^2$)							
		$N_{Ru,m}$ 4,4	$V_{Ru,m}$ 9,6	10,6	6,2	9,6	10,6
Hollow concrete blocks type B40 rendered ($f_c = 6,5 \text{ N/mm}^2$)							
		$N_{Ru,m}$ 7,6	$V_{Ru,m}$ 9,6	12,4	6,2	9,6	12,4
Hollow clay bricks type Eco-30 not rendered ($f_c = 4,5 \text{ N/mm}^2$)							
		$N_{Ru,m}$ 2,0	$V_{Ru,m}$ 6,2	6,2	6,2	6,2	6,2
Hollow clay bricks type Eco-30 rendered ($f_c = 4,5 \text{ N/mm}^2$)							
		$N_{Ru,m}$ 4,6	$V_{Ru,m}$ 8,6	8,6	6,2	8,6	8,6

Recommended loads (N_{rec} , V_{rec}) for one anchor without edge or spacing influence

$$N_{Rd} = \frac{N_{Ru,m}^*}{3} ; N_{Rec} = \frac{N_{Ru,m}^*}{4}$$

$$V_{Rd} = \frac{V_{Ru,m}^*}{3} ; V_{Rec} = \frac{V_{Ru,m}^*}{4}$$

*Derived from test results

*Derived from test results

TENSILE in kN

SHEAR in kN

Base material	Anchor size	Stud M8-M10-M12		Socket M6 M10 M12			
		Stud M8-M10-M12	Socket M6-M8-M10	Stud M8 M12	Socket M6	M10	M12
Hollow concrete blocks type B40 not rendered ($f_c = 6,5 \text{ N/mm}^2$)							
		N_{Rd} 1,45	V_{Rd} 3,2	3,5	2,0	3,2	3,5
		N_{Rec} 1,1	V_{Rec} 2,4	2,65	1,55	2,4	2,65
Hollow concrete blocks type B40 rendered ($f_c = 6,5 \text{ N/mm}^2$)							
		N_{Rd} 2,5	V_{Rd} 3,2	4,1	2,0	3,2	3,5
		N_{Rec} 1,9	V_{Rec} 2,4	3,1	1,55	2,4	2,65
Hollow clay bricks type Eco-30 not rendered ($f_c = 4,5 \text{ N/mm}^2$)							
		N_{Rd} 0,65	V_{Rd} 2,0	2,0	2,0	2,0	2,0
		N_{Rec} 0,5	V_{Rec} 1,55	1,55	1,55	1,55	1,55
Hollow clay bricks type Eco-30 rendered ($f_c = 4,5 \text{ N/mm}^2$)							
		N_{Rd} 1,5	V_{Rd} 2,85	2,85	2,0	2,85	2,85
		N_{Rec} 1,15	V_{Rec} 2,15	2,15	1,55	2,15	2,15