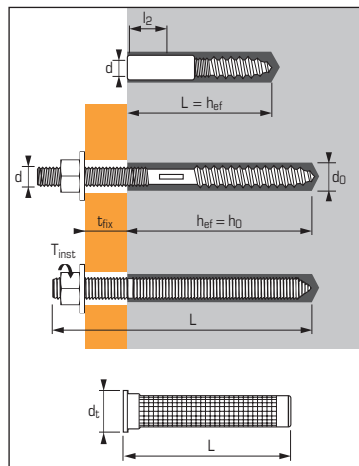


Polyester resin for fixing in concrete and hollow and solid masonries

Technical
Assessment
SOCOTEC

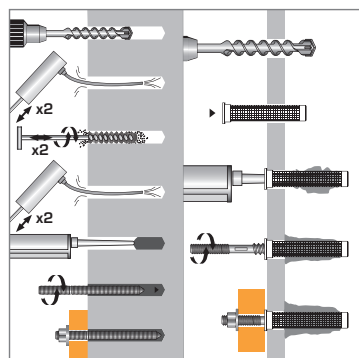
n°18056808000007



APPLICATION

- Signs
- Scaffolding
- Electrical switchboards
- Radiators
- Air conditioning ducts
- Rail guard returns
- Blinds
- Climbing walls
- Metal scale
- Hand rails
- Pole and ducts
- Demountable partitions
- Kitchen furniture
- Decorations

INSTALLATION



Technical data

Anchor size		Min. anchor depth (mm) h_{ef}	Max. thick. part to be fixed (mm) t_{fix}	Thread Ø (mm) d	Thread length (mm) l₂	Sleeve Ø (mm) d_t	Thread Ø		Drilling depth		Total anchor length (mm) L	Tighten torque (Nm) T_{inst}	Code
							hollow	solid	hollow	solid			
		(mm) d₀	(mm) h₀										
Male stud	M8X100	75	12	8	-	-	15	10	80	75	100	5	061650
	M10X100	75	20	10	-	-	15	12	80	75	100	8	061660
	M12X100	75	20	12	-	-	20	14	80	75	100	8	061670
Female stud	M8X58	58	-	8	20	-	20	14	80	58	58	8	061740
	M10X58	58	-	10	23	-	20	14	80	58	58	8	061750
	M12X75	75	-	12	23	-	20	20	100	75	75	8	061760
Sleeve (1)	Ø15X85	-	-	-	-	15	15	-	85	-	85	-	061600
	Ø20X85	-	-	-	-	20	20	-	90	-	85	-	061490
	Ø15X130	-	-	-	-	15	20	-	135	-	130	-	557080
Threaded stud	M8X110	80	15	8	-	-	-	10	-	80	110	10	050950
	M10X130	90	20	10	-	-	-	12	-	90	130	20	050960
	M12X160	110	25	12	-	-	-	14	-	110	160	30	050970
	M16X190	125	35	16	-	-	-	18	-	125	190	60	050980

CMIX PLUS Polyester resin (grey) 380 ml

CMIX PLUS Polyester resin (stone) 380 ml

CMIX PLUS Polyester resin (grey) 300 ml

CMIX PLUS Polyester resin (stone) 300 ml

(1) Plastic sleeve Ø15X85 for male studs M8 and M10 in hollow material.

Plastic sleeve Ø20X80 and Ø20X85 for male studs M12 and female studs M8, M10 and M12 in hollow material.

Plastic sleeve Ø15X130 for threaded stud M8X170 - Using standard threaded rods.

Setting time

Temperature	Max. time for installation		Curing time	
	300ml	380/410ml	300ml	380/410ml
30°C < T ≤ 40°C	3 min	1 min	20 min	20 min
20°C < T ≤ 30°C	5 min	2 min	30 min	25 min
10°C < T ≤ 20°C	9 min	4 min	60 min	40 min
0°C < T ≤ 10°C	20 min	10 min	90 min	75 min
-5°C < T ≤ 0°C	40 min	-	180 min	-

Recommended loads (N_{rec}, V_{rec}) in concrete C20/25 in kN

$$N_{rec} = \frac{N_{Rk}}{\gamma_M \cdot \gamma_F}$$

$$V_{rec} = \frac{V_{Rk}}{\gamma_M \cdot \gamma_F}$$

TENSILE

Anchor size	M8*	M10*	M12*	M16*
N _{rec}	4,48	6,30	9,25	14,00

* threaded stud

Anchor size	M8*	M10*	M12*	M16*
Minimum spacing distances (mm)				

S _{min}	160	180	220	250
C _{min}	80	90	110	125

* threaded stud

SHEAR

Anchor size	M8*	M10*	M12*	M16*
V _{rec}	2,85	4,60	6,65	12,60

* threaded stud

Recommended loads (N_{rec}, V_{rec}) in masonries in kN

TENSILE

Anchor size	Sleeve + male stud			Sleeve + female stud			Sleeve Ø15X130 + Stud* M8
	M8	M10	M12	M8	M10	M12	

Solid clay bricks BP 400

N_{rec} 1,3 1,3 -

Solid concrete blocks B 80

N_{rec} 5,0 5,0 -

Hollow clay bricks C 40 rendered

N_{rec} 1,0 1,0 0,6

Hollow clay bricks C 40 not rendered

N_{rec} 0,6 0,6 0,6

Hollow concrete blocks B 40 rendered

N_{rec} 1,6 1,6 1,0

Hollow concrete blocks B 40 not rendered

N_{rec} 0,9 0,9 0,9

* Sleeve Ø15X130 + threaded stud M8X170

SHEAR

	Sleeve + male stud			Sleeve + female stud			Sleeve Ø15X130 + Stud* M8
	M8	M10	M12	M8	M10	M12	

V_{rec} 1,8 2,5 4,0 2,0 2,5 4,0 -

V_{rec} 1,8 2,2 3,2 1,8 2,2 3,2 -

V_{rec} 2,0 2,0 2,0

V_{rec} 1,3 1,3 1,3

V_{rec} 2,0 2,0 2,0

V_{rec} 1,8 1,8 1,8

* Sleeve Ø15X130 + threaded stud M8X170