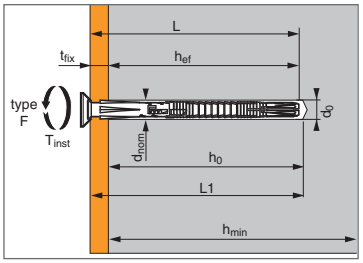
SPIT PROLONG



ETA
European Technical Approval

ETAG 020
n° 11/0035
PROLONG Ø10



APPLICATION

- Roofing clamps
- Sanitary equipement
- Fixing wall plates
- Timbers

MATERIAL

- **Body :** polyamid 6.6 (halogene free)
- **Screw :** grade 5.8, zinc coated steel 5 µm
- **Head type:**



F : Countersunk head
TORX 30 (Ø8)
TORX 40 (Ø10 & Ø14)

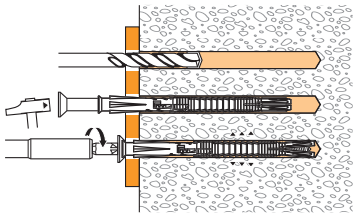


H : Hexagonal head + large washer
Ø8-Sw = 10 mm
Ø10-Sw = 13 mm
Ø12-Sw = 17 mm
Ø16-Sw = 19 mm



HS : Hexagonal head + integrated washer
Ø14-Sw = 17 mm

INSTALLATION



Spacing data

IN CONCRETE AND SOLID MASONRIES

SPIT PROLONG	Mini. distance between anchors and from edge (mm)				
	Scr,N	Ccr,N	Ccr,V	S mini	C mini
Ø 8	100	50	70	40	30
Ø10	140	70	70	50	60
Ø12	140	70	90	50	60
Ø14	140	70	105	50	60
Ø16	120	60	105	65	75

IN HOLLOW MASONRIES

The anchor must be installed at the minimum distance of:
- 200 mm from another anchor,
- 105 mm from one edge.

Universal frame fixing

Technical data

SPIT PROLONG	Anchor depth (mm)	Maximum thick of part to be fixed (mm)	Anchor ext. diameter (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 lenght (mm)	Tightening torque (Nm)	Code		
	h_{ef}	t_{fix}	d_{nom}	h_{min}	d_o	h_o	L1	L	T_{inst}	Head type F	Head type H	Head type HS
8x80		10					90	80		566650	566665	
8x100	70	30	8	140	8	85	110	100	10	566651	566666	
8x120		50					130	120		566652	566667	
10x80		10					90	80		566653	566668	
10x100		30					110	100		566654	566669	
10x115		45					125	115		566655	566670	
10x145	70	75	10	180	10	80	155	145	10	566656	566671	
10x160		90					170	160		566657	566672	
10x185		115					195	185		566658	566673	
10x 210		140					220	210		566659	566674	
12x120		50					135	120			566675	
12x145		75					160	145			566676	
12x165	70	95	12	200	12	85	180	165	10		566677	
12x185		115					200	185			566678	
12x210		140					225	210			566679	
14x120		50					140	120		566660		566685
14x145		75					165	145		566661		566686
14x165	70	95	14	200	14	90	185	165	20	566662		566687
14x185		115					205	185		566663		566688
14x210		140					230	210		566664		566689
16x145		55					165	145			566680	
16x165		75					185	165			566681	
16x185	90	95	16	200	16	110	205	185	20		566682	
16x200		110					220	200			566683	
16x240		150					260	240			566428	
16x270		180					290	270			566684	

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

TRACTION EN kN

Support \ Dimensions	Ø8	Ø10	Ø12	Ø14	Ø16
Concrete (C20/25)					
$N_{Ru,m}$	**4,0**	5,0	7,8	8,0	11,0
Solid bricks (fc = 30 N/mm²)					
$N_{Ru,m}$	**4,6**	5,75	7,4	7,5	10,4
Hollow concrete blocks type B40 not rendered					
$N_{Ru,m}$	**1,1**	1,4	2,2	3,0	4,2
Hollow clay bricks type Eco-30 not rendered					
$N_{Ru,m}$	**1,1**	1,4	1,2	1,2	1,2
Aerated concrete					
$N_{Ru,m}$	**1,0**	1,25	1,9	2,2	2,6

CISAILLEMENT EN kN

	Ø8	Ø10	Ø12	Ø14	Ø16
Concrete (C20/25)					
$V_{Ru,m}$	4,0	5,0	12,5	14,2	27,0
Solid bricks (fc = 30 N/mm²)					
$V_{Ru,m}$	4,6	5,75	11,2	12,8	24,3
Hollow concrete blocks type B40 not rendered					
$V_{Ru,m}$	1,1	1,4	3,4	4,0	4,8
Hollow clay bricks type Eco-30 not rendered					
$V_{Ru,m}$	1,1	1,4	3,5	4,5	5,1
Aerated concrete					
$V_{Ru,m}$	-	-	-	-	-

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

TENSILE IN kN

Support \ Dimensions	Ø8	Ø10	Ø12	Ø14	Ø16
Concrete (C20/25)					
N_{Rd}	1,1	1,4	2,23	2,28	3,14
N_{Rec}	0,8	1,0	1,56	1,60	2,20
Solid bricks (fc = 30 N/mm²)					
N_{Rd}	1,3	1,60	2,11	2,14	2,97
N_{Rec}	0,9	1,15	1,48	1,50	2,08
Hollow concrete blocks type B40 not rendered					
N_{Rd}	0,32	0,40	0,63	0,85	1,20
N_{Rec}	0,22	0,28	0,44	0,60	0,84
Hollow clay bricks type Eco-30 not rendered					
N_{Rd}	0,32	0,40	0,30	0,30	0,30
N_{Rec}	0,22	0,28	0,24	0,24	0,24
Aerated concrete					
N_{Rd}	0,28	0,35	0,54	0,63	0,74
N_{Rec}	0,2	0,25	0,38	0,44	0,52

SHEAR IN kN

	Ø8	Ø10	Ø12	Ø14	Ø16
Concrete (C20/25)					
V_{Rd}	1,1	1,4	3,57	4,05	7,71
V_{Rec}	0,8	1,0	2,50	2,84	5,40
Solid bricks (fc = 30 N/mm²)					
V_{Rd}	1,3	1,60	3,20	3,65	6,94
V_{Rec}	0,9	1,15	2,24	2,56	4,86
Hollow concrete blocks type B40 not rendered					
V_{Rd}	0,32	0,40	0,97	1,14	1,37
V_{Rec}	0,22	0,28	0,70	0,80	0,96
Hollow clay bricks type Eco-30 not rendered					
V_{Rd}	0,32	0,40	1,00	1,28	1,45
V_{Rec}	0,22	0,28	0,70	0,90	1,02
Aerated concrete					
V_{Rd}	-	-	-	-	-
V_{Rec}	-	-	-	-	-