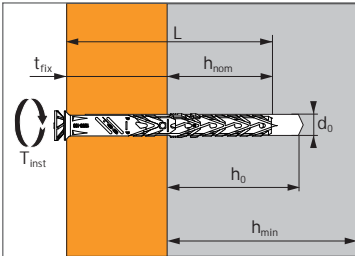


SPIT B-LONG



ETAG 020
ETA assessment
pending

B-LONG is included in
ITW Seismic Research
Program
<http://seismic.spit.it>



APPLICATION

- Roofing clamps
- Sanitary equipement
- Fixing wall plates
- Timbers
- Insulation
- Facade bracketing

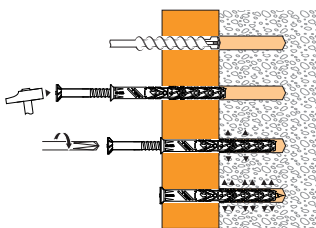
MATERIAL

- Body : polyamid 6.6 (Nylon)
- Screw :
Zinc coated steel: grade 6.8, 5 µm
Stainless steel: A4-80
- Head type:

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

HS : Hexagonal head
+ integrated washer

SETTING METHOD



Spacing data

IN CONCRETE

SPIT B-LONG		Mini. distance between anchors and from edge (mm)			
h _{ef}	Scr _N	C _{cr,N}	S _{min}	C _{min}	
Ø 8	50	60	50	50	
Ø 10	40	65	80	50	
Ø 10	50	90	100	60	

IN HOLLOW MASONRIES

The anchor must be installed at the minimum distance of:

- 100 mm from one edge.
- 200 mm from another anchor with spacing parallel to the edge.
- 400 mm from another anchor with spacing perpendicular to the edge.

Frame anchor for fixing in concrete, solid masonry, hollow block and aerated concrete

Technical data

B-LONG	Concrete		Structural clay block		Hollow clay brick/ Aerated concrete		Setting data and dimensions				Screw type				
	Emb. depth mm	Max. thickness to fix mm	Emb. depth mm	Max. thickness to fix mm	Emb. depth mm	Max. thickness to fix mm	Base mat. thickness mm	Drilling depth mm	Drilling Ø mm	Overall length mm	Tighten torque Nm	Code	Code	Code	Code
	h _{nom}	t _{fix}	h _{nom}	t _{fix}	h _{nom}	t _{fix}	h _{min}	h ₀	d ₀	L	T _{inst}	F	HS	F A4	HS A4
8X60/10		10		10		10				60		567950	-	-	-
8X80/30		30		30		30				80		567951	-	567942	-
8 X100/50	50	50	50	50	50	50	100	60	8	100	12	567952	-	567943	-
8X120/70		70		70		70				120		567953	-	-	-
8X150/100		100		100		100				150		567954	-	-	-
10X60/10		20		10		-				60		-	567969	-	567986
10X80/30		40		30		10				80		567957	567970	567987	567987
10X100/50		60		50		30				100		567958	567971	567982	567988
10X120/70		80		70		50				120		567959	567972	567983	567989
10X140/90		100		90		70				140		567960	567973	567984	-
10X160/110	40	120	50	110	70	90	h _{nom} x 2	h _{nom} +10 mm	10	160	16*	567961	567974	-	-
10X180/130		140		130		110				180		567962	567975	-	-
10X200/150		160		150		130				200		567963	567976	-	-
10X230/180		190		180		160				230		567964	567977	-	-
10X260/210		220		210		190				260		567965	567978	-	-
10X280/230		240		230		210				280		567966	567979	-	-
10X300/250		260		250		230				300		567967	567980	-	-

* in aerated concrete apply torque at 50% of nominal value

Products on special orders

Characteristic loads (N_{Rk}, V_{Rk})

TENSILE in kN (Temperature : -40°C < T < +50°C ⁽²⁾)

SHEAR in kN

Size Material	h _{ef}	Ø8	Ø10	Ø10	Ø10	h _{ef}	Ø8	Ø10	Ø10	Ø10
		50	40	50	70		50	40	50	60
Concrete (C20/25)										
N _{Rk}		3,0	3,5	5,5	-	V _{Rk}	6,9	9,1	9,1	9,1
Solid clay brick type Wienerberger MZ 28-1,8 - f _{ck} = 28 Mpa ⁽¹⁾										
N _{Rk}		7,5	-	6,9	-	V _{Rk}	2,8	-	3,0	-
Hollow clay brick type Wienerberger Porotherm BIOPLAN - f _{bk} = 2 Mpa ⁽¹⁾										
N _{Rk}		2,0	-	2,1	-	V _{Rk}	-	-	-	-
Hollow concrete block type B40 - f _{ck} = 4 Mpa ⁽¹⁾										
N _{Rk}		1,5	-	1,2	-	V _{Rk}	-	-	-	-
Autoclaved aerated concrete type low strength YTONG «Clima» Block - f _{bk} = 2,4 Mpa										
N _{Rk}		-	-	0,6	0,6	V _{Rk}	-	-	1,3	1,3
Autoclaved aerated concrete type high strength YTONG «Sismico» Block - f _{bk} = 5 Mpa										
N _{Rk}		-	-	1,5	2,0	V _{Rk}	-	-	1,7	1,8

Design loads (N_{Rd}, V_{Rd}) and Recommended loads (N_{Rec}, V_{Rec})

TENSILE in kN (Temperature : -40°C < T < +50°C ⁽²⁾)

SHEAR in kN

Size Material	h _{ef}	Ø8	Ø10	Ø10	Ø10	h _{ef}	Ø8	Ø10	Ø10	Ø10
		50	40	50	70		50	40	50	60
Concrete (C20/25)										
N _{Rd}		1,7	1,9	3,1	-	V _{Rd}	1,7	1,9	3,1	-
N _{Rec}		1,2	1,4	2,2	-	V _{Rec}	1,2	1,4	2,2	-
Solid clay brick type Wienerberger MZ 28-1,8 - f _{bk} = 28 Mpa ⁽¹⁾										
N _{Rd}		1,2	-	1,2	-	V _{Rd}	1,2	-	1,2	-
N _{Rec}		0,9	-	0,9	-	V _{Rec}	0,9	-	0,9	-
Hollow clay brick type Wienerberger Porotherm BIOPLAN - f _{bk} = 2 Mpa ⁽¹⁾										
N _{Rd}		0,8	-	0,8	-	V _{Rd}	0,8	-	0,8	-
N _{Rec}		0,6	-	0,6	-	V _{Rec}	0,6	-	0,6	-
Hollow concrete block type B40 - f _{bk} = 4 Mpa ⁽¹⁾										
N _{Rd}		0,6	-	0,5	-	V _{Rd}	0,6	-	0,5	-
N _{Rec}		0,4	-	0,3	-	V _{Rec}	0,4	-	0,3	-
Autoclaved aerated concrete type low strength YTONG «Clima» Block - f _{bk} = 2,4 Mpa										
N _{Rd}		-	-	0,30	0,30	V _{Rd}	-	-	0,30	0,30
N _{Rec}		-	-	0,21	0,21	V _{Rec}	-	-	0,21	0,21
Autoclaved aerated concrete type high strength YTONG «Sismico» Block - f _{bk} = 5 Mpa										
N _{Rd}		-	-	0,75	1,00	V _{Rd}	-	-	0,75	1,00
N _{Rec}		-	-	0,54	0,71	V _{Rec}	-	-	0,54	0,71

⁽¹⁾ Other material references have been specified in the ETA

⁽²⁾ Suitable for «range b» temperatures (-40°C < T < +80°C) : figures above must be reduced, refer to ETA for data.

