

FZGXL - FZGXLWT - FZGXLB - FZGXLBWT : Frame Anchors

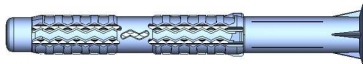
FZGXL



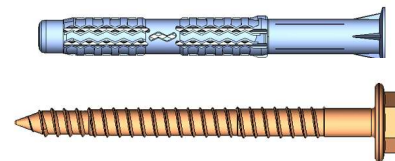
FZGXLWT



FZGXLB



FZGXLBWT



Features

The FZGXL series collared anchor is an extended anchor for multiple frame fixing with great versatility. Thanks to the presence of 4 expansion elements and its particular "shape" it is capable of creating a homogeneous expansion along the entire circumference and allows excellent anchoring even on perforated supports. It is made of PA6 nylon, which gives it excellent durability and resistance to atmospheric agents. It is also supplied with a TORX type screw with a three-diameter countersunk head, with zinc plating treatment (for the FZGXLWT codes).

The FZGXLB series collar plug has the same features with a larger collar diameter. It is suitable for use with flanged screws that can be supplied in kits on request.

Vantaggi

- The expansion of the dowel sectors in four directions optimally distributes the hold on the support.
- The collar prevents the plug from penetrating too far into the hole during installation.
- The zinc plating of the screw provides good resistance to oxidation and environmental agents.
- Wide operating temperature range.
- Speed and ease of installation.

Base Materials

- Concrete.
- Brick.
- Hollow brick.
- Empty walls.
- Stone.
- Aerated concrete blocks.

Applications

- Wooden or metal substructures.
- Connection profiles.
- Panels.
- Sheets.
- Pipe brackets.
- Metal frames for plasterboard sheets.

Material

Dowel : Polyamide PA6 (compliant with REACH and RoHS directives), standard colour Grey RAL 7035.

Screw : Zinc plated steel with countersunk head TORX key for items FZGXLWT.

Zinc plated steel with hexagonal flange and TORX key for items FZGXLBWT.

Installation (application with through-bolt on the object to be fixed)

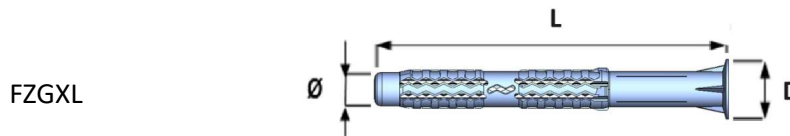
- 1 - Check the dimensions of the support (thickness and distance from the edges) to ensure that the dimensions of the anchor are correct.
- 2 - Make the hole of the correct diameter and with the method indicated for the type of support.
- 3 - Drill to a depth sufficient to ensure that the expansion zone of the anchor penetrates completely inside the support.
- 4 - Clean the hole seat thoroughly. The presence of dust and loose materials reduces the holding performance of the anchor.
- 5 - Position the object to be fixed correctly.
- 6 - Insert the anchor.
- 7 - Insert the screw and tighten until the object is securely tightened.

DoP : RECOMMENDED loads

(1kN = 100 kgF)

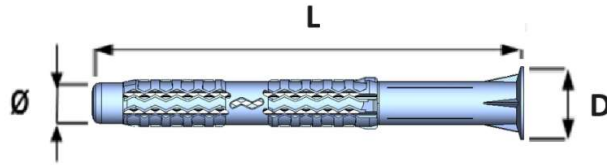
CODE	Compressive strength fb [N/mm ²]	Density ρ [kg/dm ³]	Minimum anchoring depth h nom [mm]	Minimum thickness of the substrate h min [mm]	Drilling Method	Pull-out Recommended Nracc [kN]	Effective edge distance Ccr [mm]	Minimum wheel-base Smin [mm]	Minimum recommended edge distance Cmin [mm]
Concrete C20/25 (EN 206)									
FZGXL...8	≥25	≥2,5	≥70	100	rotazione - percussione	2,1	80	50	80
FZGXL...10	≥25		≥70			2,5	100	70	100
Hollow Brick UNI 12.12.25									
FZGXL...8	≥15	≥0,9	≥70	120	rotazione	0,27	100	100	100
FZGXL...10	≥15		≥70			0,38	100	100	120

The recommended resistance values have been determined through tensile tests carried out in the internal laboratory of BARTOLUCCI s.r.l.. The FZGXL articles are in the process of being certified EAD 330284-00-0604.

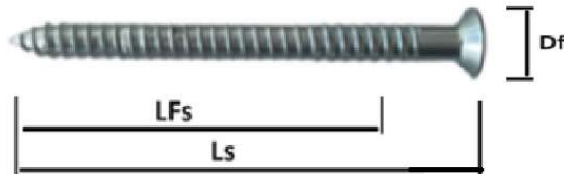


CODE	Anchor ØxL	D	Drilling hole	Maximum fixable thickness
	mm	mm	mm	mm
FZGXL8X80 - FZGXLWT8X80	8x80	13	8	10
FZGXL8X100 - FZGXLWT8X100	8x100	13	8	30
FZGXL8X120 - FZGXLWT8X120	8x120	13	8	50
FZGXL8X140 - FZGXLWT8X140	8x140	13	8	70
FZGXL8X160 - FZGXLWT8X160	8x160	13	8	90
FZGXL10X80 - FZGXLWT10X80	10x80	15	10	10
FZGXL10X100 - FZGXLWT10X100	10x100	15	10	30
FZGXL10X120 - FZGXLWT10X120	10x120	15	10	50
FZGXL10X140 - FZGXLWT10X140	10x140	15	10	70
FZGXL10X160 - FZGXLWT10X160	10x160	15	10	90
FZGXL10X200 - FZGXLWT10X200	10x200	15	10	130
FZGXL10X240 - FZGXLWT10X240	10x240	15	10	170
FZGXL10X260 - FZGXLWT10X260	10x260	15	10	190

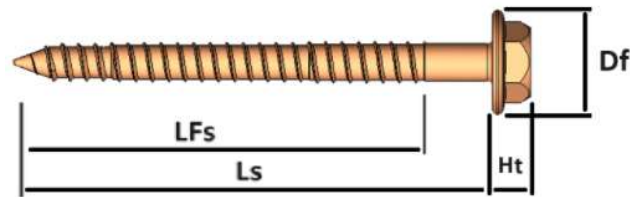
FZGXLB
(larger collar)



CODE	Anchor $\varnothing \times L$	D	Drilling hole	Maximum fixable thickness
	mm	mm	mm	mm
FZGXLB 8X80 - FZGXLBWT 8X80	8x80	16	8	10
FZGXLB 8X100 - FZGXLBWT 8X100	8x100	16	8	30
FZGXLB 8X120 - FZGXLBWT 8X120	8x120	16	8	50
FZGXLB 8X140 - FZGXLBWT 8X140	8x140	16	8	70
FZGXLB 8X160 - FZGXLBWT 8X160	8x160	16	8	90
FZGXLB 10X80 - FZGXLBWT 10X80	10x80	19	10	10
FZGXLB 10X100 - FZGXLBWT 10X100	10x100	19	10	30
FZGXLB 10X120 - FZGXLBWT 10X120	10x120	19	10	50
FZGXLB 10X140 - FZGXLBWT 10X140	10x140	19	10	70
FZGXLB 10X160 - FZGXLBWT 10X160	10x160	19	10	90
FZGXLB 10X200 - FZGXLBWT 10X200	10x200	19	10	130
FZGXLB 10X240 - FZGXLBWT 10X240	10x240	19	10	170
FZGXLB 10X260 - FZGXLBWT 10X260	10x260	19	10	190



CODE	Torx	LFs	Ls	Df
	mm	mm	mm	mm
FZGXLWT 8X80	T30	76	85	12
FZGXLWT 8X100	T30	76	105	12
FZGXLWT 8X120	T30	76	125	12
FZGXLWT 8X140	T30	76	145	12
FZGXLWT 8X160	T30	76	165	12
FZGXLWT 10X80	T40	76	85	14
FZGXLWT 10X100	T40	76	105	14
FZGXLWT 10X120	T40	76	125	14
FZGXLWT 10X140	T40	76	145	14
FZGXLWT 10X160	T40	76	165	14
FZGXLWT 10X200	T40	76	205	14
FZGXLWT 10X240	T40	76	245	14
FZGXLWT 10X260	T40	76	265	14



CODE	Hex key	Torx	LFs	Ht	Df
	mm	mm	mm	mm	mm
FZGXLBWT 8X80	10	T30	76	5	15
FZGXLBWT 8X100	10	T30	76	5	15
FZGXLBWT 8X120	10	T30	76	5	15
FZGXLBWT 8X140	10	T30	76	5	15
FZGXLBWT 8X160	10	T30	76	5	15
FZGXLBWT 10X80	13	T40	76	7	19
FZGXLBWT 10X100	13	T40	76	7	19
FZGXLBWT 10X120	13	T40	76	7	19
FZGXLBWT 10X140	13	T40	76	7	19
FZGXLBWT 10X160	13	T40	76	7	19
FZGXLBWT 10X200	13	T40	76	7	19
FZGXLBWT 10X240	13	T40	76	7	19
FZGXLBWT 10X260	13	T40	76	7	19

Notes for a correct installation method

The installation method significantly influences the sealing performance expressed by a dry fastening system.

DIAMETER AND EXECUTION OF THE HOLE. The diameter of the hole for housing a plug is indicated in the technical data sheet. Poor stability of the drilling operations can cause oscillations during the execution of the hole, which could result in an excessively ENLARGED, CONICAL and/or OVALIZED hole, and consequently compromise the sealing performance of the fastening.

QUALITY OF THE SUPPORT. Since plugs are generally used to fix objects with various construction materials, the quality and condition of the materials themselves is fundamental. If the support material is CRACKED or has VOIDS, the sealing action of an expansion plug will be compromised.

DIAMETER AND LENGTH OF THE SCREW. Since the expansion is determined by the insertion of the screw inside the dowel, the interference that occurs between this and the internal diameter of the dowel determines the expansion and therefore the sealing action of the dowel. Screws with smaller diameters determine lower expansions and therefore lower axial sealing performance. In terms of shear resistance, the performance is determined by the resistant section and the characteristics of the material of the screw used. **PRELOAD.** In order to avoid unwanted movements following the application of the load, it is necessary during installation to eliminate the play between the fixed elements and apply an adequate tightening torque so that the plastic dowel is adequately preloaded.

CLEANING OF THE SEAT. Even if dry systems are less sensitive to the presence of dust and particulate matter inside the installation seat of the dowel compared to connection systems that use adhesives and/or reactive resins, the installation hole must still be thoroughly cleaned before inserting the dowel. The presence of dust and particulate matter has a negative influence on the adhesion capacity of the fixing with the support.

NON-INTERFERENCE WITH OTHER STRUCTURAL ELEMENTS. During the drilling phases, it is necessary to pay attention to the point where the hole is made, especially in reinforced concrete. If any reinforcement elements, such as reinforcing bars, are intercepted, this may cause damage to the static and/or dynamic performance of the structure itself.

Packaging

Plastic dowel + screw item boxes



Code	Pcs / box	Box / Carton	Carton / Pallet	Pcs / Pallet
	NR.	NR.	NR.	NR.
FZGXL...WT 8X80	50	24	30	36000
FZGXL...WT 8X100	50	24	30	36000
FZGXL...WT 8X120	50	24	30	36000
FZGXL...WT 8X140	50	11	30	16500
FZGXL...WT 8X160	50	11	30	16500
FZGXL...WT 10X80	50	24	30	36000
FZGXL...WT 10X100	50	11	30	16500
FZGXL...WT 10X120	25	11	30	8250
FZGXL...WT 10X140	50	11	30	16500
FZGXL...WT 10X160	50	11	30	16500
FZGXL...WT 10X200	25	11	30	8250
FZGXL...WT 10X240	25	11	30	8250
FZGXL...WT 10X260	25	11	30	8250

EURO Pallet 80x120 (maximum height < 1,95 meters).

Plastic dowel boxes



Code	Pcs / box	Box / Carton	Carton / Pallet	Pcs / Pallet
	NR.	NR.	NR.	NR.
FZGXL...8X80	100	24	30	72000
FZGXL...8X100	100	24	30	72000
FZGXL...8X120	100	24	30	72000
FZGXL...8X140	100	11	30	33000
FZGXL...8X160	100	11	30	33000
FZGXL...10X80	50	24	30	36000
FZGXL...10X100	100	11	30	33000
FZGXL...10X120	50	11	30	16500
FZGXL...10X140	100	11	30	33000
FZGXL...10X160	100	11	30	33000
FZGXL...10X200	50	11	30	16500
FZGXL...10X240	25	11	30	8250
FZGXL...10X260	25	11	30	8250

EURO Pallet 80x120 (maximum height < 1,95 meters).

Plastic dowel industrial Carton



Code	Pcs / Carton	Carton / Pallet	Pcs / Pallet
	NR.	NR.	NR.
FZGXL...I 8X80	4500	20	90000
FZGXL...I 8X100	4000	20	80000
FZGXL...I 8X120	2500	20	50000
FZGXL...I 8X140	2000	20	40000
FZGXL...I 8X160	1500	20	30000
FZGXL...I 10X80	2000	20	40000
FZGXL...I 10X100	1800	20	36000
FZGXL...I 10X120	1300	20	26000
FZGXL...I 10X140	1100	20	22000
FZGXL...I 10X160	1000	20	20000
FZGXL...I 10X200	800	20	16000
FZGXL...I 10X240	650	20	13000
FZGXL...I 10X260	600	20	12000

EURO Pallet 80x120 (maximum height < 1,45 meters).

Usage

Store in the original packaging in a covered and dry place.

Safety Instructions

According to the current European regulations, the articles in question do not require a Safety Data Sheet (Reg.1906/2007/CE - REACH). During application, the use of gloves, dust mask and protective glasses is recommended. Follow the safety regulations in place in the workplace.

Warnings

The data reported correspond to our current technical and applicative knowledge for an appropriate use of the product and are to be considered, in any case, indicative and general, therefore not binding for the same. It is recommended to carry out a preliminary practical test in order to verify the suitability of the product in relation to the intended use, purpose and its use. The purchaser is responsible for verifying the suitability of the products described in this document for the use and purposes it intends.