

FZTASS : Universal Fixing

FZTASS



FZTASSW



Features

FZTASS anchors are universal anchors for fixing non-passing objects. They are suitable for fixing both on solid and hollow materials. Thanks to the expansion of the sectors in four directions, the FZTASS anchor is a universal anchor that guarantees excellent resistance on all types of support, both solid and hollow. It can also be supplied with a standard chipboard screw (DIN 7505) white zinc-plated with a countersunk head and with a PZ2 cross cut.

Advantages

- Optimal distribution of the tensions on the support, thanks to the expansion of the sectors in four directions.
- The rim prevents the anchor from penetrating too far into the hole during installation.
- Wide range of temperatures (between -40°C and +80°C).
- Fast and easy installation.

Applications

Materials

- Concrete.
- Lightweight concrete.
- Bricks.
- Hollow bricks.
- Stones.
- Wood.

Sectors

- Lights and chandeliers.
- Bathroom accessories and fixtures.
- Switchboards.
- False ceilings.
- Built-in wardrobes.
- Console for TV.

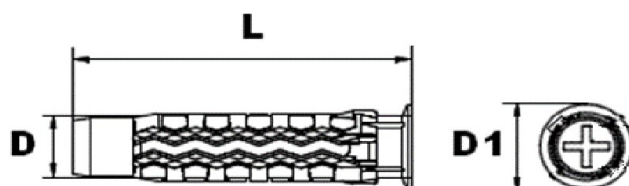
Technical data

Fixing: Polyamide PA6 (according to REACH and RoHS directives) color grey RAL7035.

Screw: Galvanized Steel C1006-1008 (3-5 µm).

Installation

- 1 - Check the dimensions of the support (length and distance from the edges) to ensure that the fixing dimensions are correct.
- 2 - Make the hole of the correct diameter and with the method indicated for the type of support.
- 3 - Drill deep enough to ensure that the expansion area of the anchor completely penetrates in the support.
- 4 - Clean the hole carefully. Dust and loose materials reduce the sealing performance of the fixing.
- 5 - Insert the fixing.
- 6 - Place the object to fix.
- 7 - Insert the screw and screw until the object is secure fixing.



Quote	FZTASS05	FZTASS06	FZTASS08	FZTASS10
	[mm]	[mm]	[mm]	[mm]
D	5	6	8	10
D1	7	8	11	14
L	25	30	40	50
Hole depth	30	35	45	55
Screw provided	chipboard screw 3,5x30	chipboard screw 4,5x40	chipboard screw 5,0x50	chipboard screw 6,0x60
Max thickness fixable with screw	5	10	10	10

Loads

The anchorage holding loads depend on the combination of the type of anchor, screw and support. The limit resistance values have been determined through tests carried out in the internal BARTOLUCCI laboratory with the screws supplied by Bartolucci. The recommended values take into account a precautionary safety coefficient (SPECIFIED IN THE TABLE REPORTED) considering static load conditions. The resistance capacity of an isolated anchor to bending stresses is poor, therefore its application is not recommended.

If there are situations subjected to dynamic stresses, the application must be tested for each specific situation.



Recommended Loads [kN] (safety factor = 3)

(1kN ≈ 100 kgf)

RECOMMENDED AXIAL LOADS (Static loads)	FZTASS05	FZTASS06	FZTASS08	FZTASS10
	self-tapping screw D 3,5 x 30 mm	self-tapping screw D 4,5 x 40 mm	self-tapping screw D 5 x 50 mm	self-tapping screw D 6 x 60 mm
Concrete C20/25	0,14	0,24	0,30	0,46
Brick (fb≥43MPa)	0,14	0,23	0,28	0,43
Hollow brick (fb≥8MPa)	0,12	0,21	0,26	0,35
Lightweight concrete (fb≥5MPa)	0,01	0,03	0,12	0,16

RECOMMENDED SHEAR LOADS (Static loads)	FZTASS05	FZTASS06	FZTASS08	FZTASS10
	self-tapping screw D 3,5 x 30 mm	self-tapping screw D 4,5 x 40 mm	self-tapping screw D 5 x 50 mm	self-tapping screw D 6 x 60 mm
All Materials with fb≥10MPa	0,18	0,22	0,24	0,38

Notes for a correct installation:

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

DIAMETER AND EXECUTION OF THE HOLE. The diameter of the hole for housing a dowel is indicated in the technical data sheet. In practice, the tips for building materials are almost always slightly larger: a 6 mm diameter tip has a 6.2 mm tip insert. Furthermore, when drilling a building material (bricks, cement, etc.) it is generally done with manual tools that do not have a support for perfect orthogonality of the tip to the surface. The poor stability of the drilling operations can cause oscillations during the execution of the hole. As a result, the hole will be ENLARGED, CONICAL and/or OVALIZED.

DIAMETER AND LENGTH OF THE SCREW. Since the expansion is determined by the insertion of a 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. Smaller diameters determine lower expansions and therefore lower axial sealing performance. **SHEAR RESISTANCE.** In terms of shear resistance, performance is generally determined by the screw used, i.e. by the characteristics of the type of steel and the resistant section of the screw. In the case of very fragile support materials with poor compressive strength performance, failures of the support itself may occur due to the shear loads.

SUPPORT QUALITY. Since anchors are generally used to fix objects to various building materials, the quality and condition of the materials themselves is fundamental. For example, if the support material is CRACKED or has VOIDS, the sealing action of an expansion anchor is compromised.

SEAT CLEANING. Even if dry systems are less sensitive to the presence of dust and particulate matter inside the installation seat of the anchor compared to connection systems that use adhesives and/or reactive resins, the installation hole must still be thoroughly cleaned before inserting the anchor. The presence of dust and particulate matter negatively affects friction and therefore the adhesion that will occur at the dowel/support material interface.

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, damage to the static and/or dynamic performance of the structure itself may occur.

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.

Packaging

Packaging items only for plastic fixing

Code	Packaging	Pieces/Box	Boxes/ Carton	Cartons/ Pallet	Pieces/ Pallet
FZTASS05	Box	300	72	30	648000
FZTASS06	Box	200	72	30	432000
FZTASS08	Box	100	72	30	216000
FZTASS10	Box	100	36	30	108000

Pallets are EURO 80x120 that develop in height for a maximum of 1.95 meters.

Packaging items for plastic fixing with screw

Code	Packaging	Screw	Pieces/Box	Boxes/ Carton	Cartons/ Pallet	Pieces/ Pallet
FZTASSW05	Box	3,5x30	200	72	30	432000
FZTASSW06	Box	4,5x40	100	72	30	216000
FZTASSW08	Box	5,0x50	50	72	30	108000
FZTASSW10	Box	6,0x60	25	72	30	54000

Pallets are EURO 80x120 that develop in height for a maximum of 1.95 meters.

Industrial packaging only for plastic fixings

Code	Packaging	Pieces/Box	Cartons/ Pallet	Pieces/ Pallet
FZTASSI05	Carton	30.000	36	1080000
FZTASSI06	Carton	25.000	24	600000
FZTASSI08	Carton	12.500	24	300000
FZTASSI10	Carton	5000	24	120000

Pallets are 80x120 that develop in height for a maximum of 1.45 meters.