

Steel DryFix® 10 Connector

AISI 304 stainless steel “T” connector between the Steel Helibar® 6 stainless steel helical bar, installed inside the exposed wall surface joints, and the Steel DryFix® 10 stainless steel helical bars, installed to create the dry joining of masonry.

The Steel Dryfix® 10 connector is used to create an effective mechanical connection between the Steel DryFix® 10 helical bars and the Steel Helibar® 6 helical bar, maintaining the aesthetics of the exposed masonry and a connection between the various wall facings.



PRODUCT STRENGTHS

- Perfect bonding between the Steel DryFix® 10 Connector, the Steel Dryfix® 10 helical bars and the Steel Helibar® 6 helical bar
- Non-invasive system. Perfect preservation of the aesthetics of the masonry's exposed walls
- Excellent compatibility with mortars from the GeoCalce® and Biocalce® range, with GeoLite® mineral mortar and with GeoLite® Gel epoxy-based adhesive
- Quick and easy to install
- High durability guaranteed by AISI 304 stainless steel

AREAS OF USE

Use

- Connection of reinforced masonry on both surfaces made with Steel Helibar® 6 helical bars inserted into the masonry's joints.
- Connection of the reinforcement made in the joints of a new exposed walls masonry with Steel Helibar® 6 helical bars and the transversal binding of the same masonry, made with Steel DryFix® 10 helical bars.
- Connection of the reinforcement made in the joints of a new exposed walls masonry with Steel Helibar® 6 helical bars and the transversal binding of the same masonry, made with Steel DryFix® 10 helical bars.

INSTRUCTIONS FOR USE

Preparation of substrates

The masonry must be prepared following in the instructions dictated by the PM, if appropriate
Start by cleaning the joint and possibly mechanically removing the rendering mortar to an average depth of roughly ~ 3 cm. After removing all the mortar, the joint must be washed and clean appropriately, in order to eliminate dust or anything else that could compromise the adhesion of the chosen matrix for grouting the bars.

Preparation

The Steel DryFix® 10 Connector is ready-to-use. The Steel DryFix® 10 Connector is suitable for any length of Steel DryFix® 10.

Application

Dry joining of masonry in brick or tuff using Steel DryFix® 10 should be followed by drilling a pilot bore of an appropriate diameter compared to the consistency of the substrate and with a length equivalent to the length of the stapling bar that must be installed. In anticipation of the subsequent insertion of the Steel DryFix® 10 Connector on the Steel DryFix® 10 helical bar head, make the hole widening to 14 mm in diameter for the first 70 mm depth of the pilot bore. After placing the Steel DryFix® 10-12 Driver attachment into the SDS Plus drill to engage, put the Steel DryFix® 10 bar inside the pilot bore, tapping with percussion until it is completely inserted; after the helical bar has been completely inserted, insert the Steel DryFix® 10 Connector on the Steel DryFix® 10 helical bar head, by simple screwing. With a trowel or manual gun insert geo-mortar (GeoCalce® F Antisismico, GeoLite®) or epoxy-based mineral adhesive (GeoLite® Gel) for about 2/3 of the thickness of the stripped joint. Insert, by means of manual pressure, the Steel Helibar® 6 helical bar into the reconstructed joint portion; at the Steel DryFix® 10 Connector, insert the Steel Helibar® 6 helical bar into the innermost hole. The outermost hole can be used if a second Steel Helibar® 6 helical bar is required as reinforcement or as overlapping. After installing the Steel Helibar® 6 helical bar, completely fill the reinforced mortar joint so as to completely cover the intervention, guaranteeing the aesthetics of the masonry's exposed.

ABSTRACT

Dry connection between the exposed wall masonry reinforcement, carried out with Steel Helibar® 6, and the through break-fill work of the same masonry, made with Steel DryFix® 10.

Execution of a dry connection system of masonry made from brick, raw earth, tuff, wood and other material by installing Steel DryFix® 10 AISI 304/316 stainless steel helical bars, installed with Helifix® technology in specified pilot bore in the structure, subject to possible repair of weakened surfaces, by means of the appropriate chuck supplied Steel DryFix® 10-12 Driver attachment which is tapped into position. Subsequent insertion of the Steel DryFix® 10 Connector on the Steel DryFix® 10 helical bar head, by simple screwing.

The procedure is conducted as follows: (1) scarify the old mortars present in the joints of the masonry for a depth of at least 3 cm and make a pilot bore of suitable diameter, according to the bar and to the material from which the element to be reinforced is composed; (2) install the bar inside the bore by means of the appropriate Steel DryFix® 10-12 Driver attachment and possible extension dependent on the bar length; (3) insert the Steel DryFix® 10 Connector on the Steel DryFix® 10 helical bar head, by simple screwing; (4) with a trowel or manual gun insert geo-mortar (GeoCalce® F Antismico, GeoLite®) or epoxy-based mineral adhesive (GeoLite® Gel) for about 2/3 of the thickness of the stripped joint; (5) insert, by means of manual pressure, the Steel Helibar® 6 helical bar into the reconstructed joint portion; at the Steel DryFix® 10 Connector, insert the Steel Helibar® 6 helical bar into the innermost hole. The outermost hole can be used if a second Steel Helibar® 6 helical bar is required as reinforcement or as overlapping; (6) at the end of the installation of the Steel Helibar® 6 helical bar, completely fill the reinforced mortar joint so as to completely cover the intervention, guaranteeing the aesthetics of the masonry's exposed walls. The Steel DryFix® 10 break-fill work bar must guarantee the minimum performance characteristics of the plan, in other words: tensile breaking load ≥ 16.2 kN; shear breaking load ≥ 9.5 kN; modulus of elasticity ≥ 150 GPa; ultimate elongation at rupture $\geq 3\%$; nominal area 15.5 mm². Steel Helibar® 6, the helical bar for the reinforcement of the joints of exposed vertical walls, must guarantee the minimum performance characteristics of the project, i.e.: tensile breaking load ≥ 9.8 kN; shear breaking load ≥ 5.5 kN; modulus of elasticity ≥ 130 GPa; ultimate break warp $\geq 5.5\%$; nominal area 8 mm². The price is by unit of length of the reconstructed and reinforced masonry joint. delivery and installation of all the materials described above as well as everything else required to finish the job is included. The following are excluded: restoration of degraded areas and repair of the substrate; material acceptance tests; pre- and post-procedure testing, all aids required to perform the work.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Material		AISI 304 stainless steel
Head diameter	$\varnothing_{\text{head}}$	10 mm
Connector length	$L_{\text{connector}}$	70 mm

WARNING

- **Product for professional use**
- abide by any standards and national regulations
- when handling the material wear protective clothing and goggles, and follow the instructions regarding methods for applying the material.
- contact with the skin: no special measures required.
- storage on the work site: store under cover in a dry place, well away from substances that might damage it.
- the product is an item according to the definitions of the EC Regulation No. 1907/2006 and therefore does not require a Safety Data Sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com

The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2019 (ref. GBR Data Report - 12.19); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.



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