Steel Dryfast 6

AISI 304/316L stainless steel helical bar, with a 6 mm diameter, with high mechanical performance stainless steel helical bar for reinforced grouting of joints using the dry installation system.

Thanks to its particular geometry and manufacturing process, Steel Dryfast 6 guarantees high levels of mechanical and chemical adhesion to the grouting mortar used. The bar can be used for shear and flexural reinforcement of wall coverings in hollow clay blocks, raw earth, tuff, architraves and in the break-fill consolidation process to increase the adhesion of disconnected or cracked portions of wall. This makes it ideal for surface consolidation of visible wall coatings, without in any way altering their appearance.

1. **CE mark**
2. **Excellent durability guaranteed by AISI 304/316L stainless steel**
3. **High speed and ease of installation in joints in all weather conditions**
4. **No invasiveness and aesthetic impact**
5. **Excellent mechanical adherence to the matrix used for grouting, thanks to the helix shape of the bar**
6. **High tensile and shear strength**
7. **Connectable to Steel Dryfast 10 bars using the Steel Dryfast 10 connector**

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Areas of application

→ Intended use
- Connecting wall panels, in cases in which the teeth are not attached together well
- Strengthening damaged or cracked architraves
- Break-fill work of cracks in the masonry structure, made of brick, raw earth, tuff
- Reinforced grouting of joints
- Limitation of the crack
- Seismic improvement and structural reinforcement of the walls, in the context of shear reinforcement

Instructions for use

→ Preparation
The bars are supplied in 10 m reels ready for installation. It will be necessary to cut to the length of bar required in the consolidation operation by using an angle grinder or suitable shears.

→ 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 ≈ 2 cm. Once removal is complete, clean and wash to remove dust and anything else that may compromise the adhesion of the matrix chosen for grouting the bars.

1. For masonry, tuff and natural stone substrates:
   - if necessary, a universal consolidating adhesion promoter for mortars and plasters/renders, such as Primer Uni, can be applied to saturation, diluted with clean water at a ratio of up to 1:4;
   - possible extensive bed joint reconstruction, beyond that necessary for the installation of the bar, with breathable structural geo-mortar based on pure natural lime NHL and geo-binder, such as Geocalce F Antisismico;.
2. For supports made from cement blocks in modern masonry and industrial buildings:
   - Possible extensive joint reconstruction, beyond that necessary for the installation of the bar, using Geolite, a type of geo-mortar based on mineral geo-binder.

→ Application
Strengthen the joint with the Steel Dryfast 6 stainless steel helical bar by scarifying approximately 2 cm deep into the joint, using a circular angle grinder or manually removing the rendering mortar along the entire length of the stapling bar to be installed. Start by cleaning and restoring the joint according to the instructions given above. Using a trowel or manual sealant applicator gun, insert geo-mortar or the epoxy mineral adhesive (Geocalce F Antisismico, Geolite or Geolite Gel), chosen to grout the bar for about 2/3 depth of the prepared joint. Insert the bar by means of manual pressure, ensuring that the mortar or rendering resin leaks from the sides of the bar; after, plaster it with the same mortar or resin employed in the previous phase, and in a manner that guarantees perfect joint sealing and bar grouting, which guarantees perfect adhesion of the bar to the substrate and gives the appearance of a completed job.

Certificates and marks

CE EN 845-1

3015-EPD-030066928

Abstract

The Steel Dryfast 6 AISI 304/316L stainless steel helical bar.
Execution of shear and flexural reinforcement, and break-fill work of masonry made from brick, clay, tuff, cement blocks or other materials using Steel Dryfast 6 AISI 304/316L stainless steel helical bars, inserted into mortar joints, subject to possible repair of weakened surfaces, implemented using grouting with breathable structural geo-mortar, a pure natural lime NHL 3.5 and geo-binder such as Geocalce F Antisismico or geo-mortar based on mineral geo-binder, type Geolite, otherwise with epoxy organic mineral matrix, type Geolite Gel, all supplied by Kerakoll Spa, to be applied directly to the surface requiring reinforcement and without the need for an adhesion primer. They include: (1) the mechanical or manual scarification of the joint for an average depth of at least 2 cm; (2) insertion using a trowel or manual sealant applicator gun for the mortar or resin chosen for grouting the first 2/3 joint; (3) insertion of the bar using manual pressure, ensuring that the mortar or resin used in phase (2) leaks from the edges of the bar and results in perfect integration of the bar; (4) plastering the joint until the bar is completely covered to the depth required by the specification. The break-fill work bar must guarantee the minimum performance characteristics of the plan, in other words: tensile breaking load ≥ 8.7 kN; shear breaking load ≥ 7.5 kN; modulus of elasticity ≥ 125 GPa; ultimate elongation at rupture ≥ 4.1%; nominal area 8.9 mm².
The price is by unit of bar length actually laid.
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; pre- and post-procedure testing, all aids required to perform the work.

Technical Data compliant with Kerakoll Quality Standard			
Material		AISI 304/316L stainless	
Nominal diameter	ø	6 mm	
Nominal area of the bar	A_{bar}	8.9 mm²	
Tensile breaking load	N	≥ 8.7 kN	UNI EN ISO 6892-1:2016
Shear breaking load	T	≥ 7.5 kN	UNI EN 846-7
Elastic tensile strength (ε = 0.2%)	$\sigma_{0,2\%}$	≥ 915 MPa	UNI EN ISO 6892-1:2016
Elastic modulus of the bar	E_{bar}	≥ 125 GPa	UNI EN ISO 6892-1:2016
Deformation at rupture of the bar	ε_{bar}	≥ 4.1%	UNI EN ISO 6892-1:2016
Pack			10 m roll

Warning

- → Abide by any standards and national regulations
- → handle the material while wearing protective clothing and goggles and follow the instructions on how to apply the material
- → store in a dry place and away from substances that may compromise the integrity
- → 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, please contact the Kerakoll Worldwide Global Service +39 0536 811 516

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