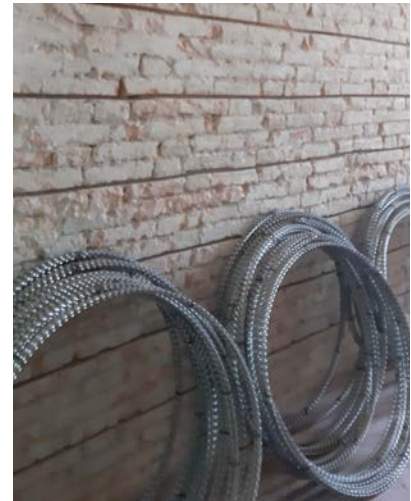


TCS TWIST 6A2

TCS TWIST 6A2 is the innovative stainless steel helical bar A2 class used for anchorages, connections and dry seams and reinforced joints. The helix shape and strongly hardened steel give the bar a high strength and hardness, thus allowing a mechanical connection.

- Restoration
- Resistant
- Versatile
- Highly Adhesive
- Quick
- Light
- Reversible
- Easy
- Facile
- Pollution Resistant



Features

The helical bars TCS TWIST 6A2 thanks to the special shape and the strongly hardened stainless steel allow for a totally dry connection without the use of resins or mortars for installation. For the installation in the substrates to be consolidated and/or to connect, a pilot perforation must be made for the entire insertion depth.

The bar, during insertion, generates an incision similar to a thread with a constant pitch which allows the interlock of the same to the substrate. The seal of the bar to the substrate is easily verifiable by a pull test with the instrument TCS 3T Tie Twist Tester and based on the type and consistency of the substrate, of the pilot perforation size and the depth of insertion.

The helical bar TCS TWIST 6A2 thanks to the special shape and therefore high adhesion is also used inside the mortar joints of the masonry. The system is called NSM (Near Surface Mounted) which is able to build a reinforced masonry.

The application of dry bars or in mortar joint is particularly suitable for preserving the exposed face of the masonry

Fields of Application

TCS TWIST 6A2 is ideal for making connections and seams of masonry elements of solid or semi-solid bricks, tuff, stone, raw earth, and wood. Insertions are also possible in concrete or mixed element substrates.

Then generating the innovative bondstones and connections of consolidation systems through reinforcement fabrics and meshes of the TCS consolidation Line. The realisation of the protections and anti-rolling systems.

Application

DRY APPLICATION: The installation of the helix bar TCS TWIST 6A2 will have to be preceded by the realisation of a proper calibrated diameter of the pilot perforation depending on the consistency and type of substrate to be consolidated.

Where required for 6 mm bars, 4 mm pilot perforations for brick, tuff and wood substrates are recommended, while 5 mm pilot perforations for stone substrates are recommended. Using the plugger in percussion mode (excluding rotation if possible) equipped with a special TCS DRIVER adapter, the connection bar will be inserted. Go forward with the insertion, up to the depth of the project. It is possible to interrupt the insertion phase and restart it later without affecting the final result. A bar insertion and sealing test directly on the structure to be consolidated in order to better calibrate the amounts and consolidation methods is recommended.

NSM APPLICATION: The installation of the helical link TCS TWIST 6A2 should be preceded by the removal of the existing mortar joint. The mortar joint to be filled for 2/3 of the depth by means of structural mortar B-STRUCTURE and installation of the bar in a fresh matrix condition. Then the application of the second layer of structural mortar B-STRUCTURE to be completed.

Technical Data

PRODUCT TYPE Helical connector for dry insertion

TRACTION STRENGTH > 950 MPa

SHEAR STRENGTH AT TRACTION > 7.20 KN

SHEAR STRENGTH AT BREAK > 4 KN

ELASTIC MODUL >160 GPa

DEFORMATION AT BREAK 0.56%

EQUAL MASS SECTION > 7,55 mm²

NOMINAL DIAMETER > 6 mm

DENSITY 7850 kg/m³

PACKAGING roll

LENGHT 7 m