

## TCS TWIST 9A2

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TCS TWIST 9A2 is the innovative stainless steel helical bar A2 class used for anchorages, connections and dry seams. 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
- Pollution
- Resistant



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### Features

The helical bars TCS TWIST 9A2 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 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.

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### Fields Of Application

TCS TWIST 9A2 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 protections and anti-rolling systems.

## Application

The installation of the helix bar TCS TWIST 9A2 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 9 mm bars, 6 mm pilot perforations for brick, tuff and wood substrates are recommended, while 8 mm pilot perforations for stone substrates are recommended. Using the plugger in percussive 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.

## Technical Data

**PRODUCT TYPE** Helical connector for dry insertion

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**TRACTION STRENGTH** > 1110 MPa

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**SHEAR STRENGTH AT TRACTION** > 16.7 kN

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**SHEAR STRENGTH AT BREAK** > 8 kN

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**ELASTIC MODUL** >160 GPa

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**DEFORMATION AT BREAK** 0,56%

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**EQUAL MASS SECTION** > 14,9 mm<sup>2</sup>

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**NOMINAL DIAMETER** > 9 mm

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**DENSITY** 7850 kg/m<sup>3</sup>

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**PACKAGING** pz 20

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**LENGHT** 200, 400, 600, 800, 1000 mm (other lengths on request)

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**STORAGE** In a dry place