



TECHNICAL DATA SHEET

OLY STEEL CHAIN 304/316

AISI 304/316 steel helical bar

OLY STEEL CHAIN 304/316

AISI 304/316 steel helical bar



OLY STEEL CHAIN 304/316 is a helical bar in AISI 304 or 316 stainless steel with high mechanical performance suitable for reinforced joints and single-sided or through connections on masonry and reinforced concrete. Easy to cut, suitable for work on buildings including those of historical and cultural interest, it can be installed dry or by grouting with mortars or resins. **OLY STEEL CHAIN 304/316** is CE marked according to EN 845-1:2013 + A1:2016.



Property OLY STEEL CHAIN 304/316	Ø 6	Ø 8	Ø 10	Ø 12
Standard length [m]	10	10	10	1
Diameter [mm]	6	8	10	12
Pull-out force from brick support (dry installation) [kN]. Residual deformation < 5 mm. Anchorage length > 130 mm.	> 3	> 6	> 8	> 8
Extraction force from brickwork support (dry installation) [kN]. Residual deformation < 1 mm. Anchorage length > 130 mm.	> 2,5	> 2,5	> 2,5	> 2,5
Extraction force from C16/20 concrete support (dry installation) [kN]. Residual deformation < 1 mm. Anchorage length > 130 mm.	> 0,9	> 0,9	> 0,9	> 0,9
Ultimate tensile breaking load [kN]	-	> 11,0	> 14,5	-
Tensile strength [MPa]	-	> 1.000	> 1.100	-
Ultimate breaking load in shear [kN]	-	> 8,5	> 11,5	-
Shear strength [MPa]	-	> 800	> 900	-
Elastic modulus [GPa]	-	125	125	-

Installation instruction

For dry application, drill a pre-hole with a diameter of 2 mm less than that of the bar inside the support. Insert the **OLY STEEL CHAIN** bar into the hole using the special bar pusher mandrel.

Fields of application

Reinforced reinforcement of joints in masonry
Earthquake protection on masonry panels
Seam sealing of cracks in stone, brick, tuff or mixed masonry
Connection of unconnected masonry panels
Limitation of cracking phenomena
Reinforcement of damaged or cracked lintels and vaults

Packaging

10 ml rolls, 1 m bars.

Storage and safety conditions

Store in a dry place. Use appropriate precautions during handling, transport and storage to avoid damage. Wear personal protective equipment (head, gloves, goggles and dust masks) when preparing and installing the product. The product must be cleaned of dust, oils, grease, etc. before application.

General warnings

This technical datasheet supersedes and cancels previous versions.

The information in this datasheet reflects our current knowledge and experience. The data has been processed with the utmost care, though without guaranteeing its accuracy and completeness, and without assuming responsibility for further decisions made by the user. The data do not impose any legal commitment or secondary obligations of any kind. The data do not relieve the customer from independently verifying the product's suitability for the intended use. Our products undergo continuous quality checks on both raw materials and finished products to ensure consistent quality. Our technicians and consultants are available to provide information, clarification, and answers regarding the use and processing of our products, as well as on-site inspections. Updated technical datasheets can be found on the internet at www.olympus-italia.com or can be requested from our offices. Marking obligations are not related to the intrinsic nature of a product but to its intended use: before placing an order, it is the customer's responsibility to submit all available documentation to the project manager to establish the material's suitability (in terms of certifications and performance) for its intended use.

The product is an article according to the definitions of Regulation (CE) n. 1907/2006 and therefore does not require a Safety Data Sheet.

To verify the latest version of this technical datasheet, for information, technical support, and additional structural reinforcement systems, contact Olympus Technical Office:

email: ufficiotecnico@olympus-italia.com – tel: 800.910272 – web: www.olympus-italia.com

Product for Professional Use