

HELINK

Stainless Steel Helical Anchor

PRODUCT INFORMATION

Helink is developed as a supplementary product in strengthening of historical buildings. With specially designed surface texture, it exhibits high adherence and load bearing characteristics. It is applied without requiring additional labor costs thanks to its structure that allows quick application.

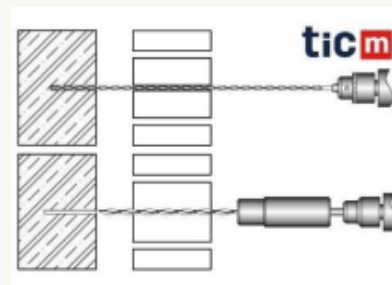
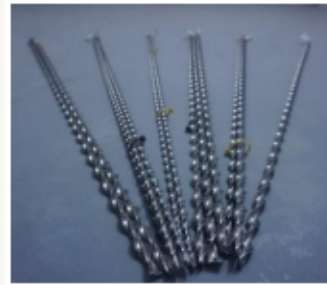
AREAS OF USAGE

- In strengthening historical buildings with textile reinforcements,
- In masonry walls,
- In vaults and domes,
- In strengthening applications of concrete buildings with carbon fabric,
- In strengthening of slabs with textile reinforcement.

Physical Properties	Helink
Material	Stainless Steel
Shape	Helical
Length	20-150 cm

ADVANTAGES

- It exhibits perfect harmony with the textile reinforcement it is used with.
- It allows small deformations, which will meet the elastic behavior of the wall and showing a complete harmony with masonry buildings.
- It is ready to use. Its save time from anchor preparation processes reducing labor thanks to its special design.
- It exhibits high adherence with lime-based mortars with special surface properties; therefore, there is no need to use any kind of epoxy to fix the anchors to the wall. This allows being in harmony with the authentic characteristics of the historical buildings



Technical Properties	Helink							
Grade	304				316			
Diameter (mm)	6	8	10	12	6	8	10	12
Cross-sectional Area (mm ²)	8,9	10,4	12,9	15,1	8,9	10,4	12,9	15,1
Ultimate Tensile Load (kN)	8,85	12	16	18,9	8,7	12,1	14,5	18,76
Ultimate Tensile Strength (MPa)	994,38	1153,84	1240,03	1251,65	977,53	1163,46	1124,03	1242,38
Elongation (%)	4,1	4,8	5,7	n/m	4,1	4,8	5,7	n/m
Yield Point Strength (ϵ =%0,2) (MPa)	919,30	1038,46	1038,75	1066,22	917,97	1028,84	945,74	1063,57
Elasticity Modulus (GPa)	122	122	122	122	125	125	125	125
Ultimate Shear Load (kN)	7,5	n/m	13,3	n/m	7,5	8,7	11,7	n/m
Ultimate Shear Strength (MPa)	842,69	n/m	906,97	n/m	842,69	826,53	797,86	n/m
Thermal Conductivity (W/mK)	16,2	16,2	16,2	16,2	16,3	16,3	16,3	16,3
Thermal Expansion (1x10 ⁻⁶ /K)	17,2	17,2	17,2	17,2	15,9	15,9	15,9	15,9
Melting Point (°C)	1450	1450	1450	1450	1400	1400	1400	1400

*n/m: not measured