

Kimisteel FIOCCO GLV

ST3-0221

Unidirectional steel fibres cord with high tensile resistance to be used as anchoring system.



DESCRIPTION

Kimisteel FIOCCO GLV is made out of galvanized steel micro-strands with high tensile resistance, rolled up and wrapped in a tissue sleeve. The product is used in both residential and monumental buildings to create mechanical anchoring systems.

Kimisteel FIOCCO GLV can be used as independent anchoring system or in combination with reinforcing systems involving Kimitech meshes or steel fabric from Kimisteel range.

USES

- Anchoring the reinforcing systems involving Kimitech and Kimisteel products to the existing masonry structures;
- Consolidation of existing masonry structures using transversal connection;
- Consolidation of existing masonry structures using a reticulated reinforcing system.

APPLICATION

- On the support clean and solid. Drill the required holes with adequate diameter and length (minimum 20 cm and maximum length in function of design requirements). Clean the holes from dust;
- Cut the cord respecting the length required (minimum 40 cm).
- Fill the holes with the adequate anchoring product like Kimitech resins or mortars from Betonfix or Limepor ranges, depending on the nature of the support and position of the holes.
- Insert the connector and remove the injection product getting out from the hole.
- Open, forming like a disk, the portion of Kimisteel FIOCCO GLV that is outside the hole and fix this part using a Kimitech resin or a mortar from Betonfix or Limepor ranges. In case of using resins

as matrix, spread quartz aggregates all over the treated surface while the matrix is still fresh in order to guarantee an adequate roughness for next skimming coats.

PACKAGING

Roll 10 m.

Diameters 3, 5, 8, 10 and 12 mm

Strand characteristics	Typical value				
Fibre	Galvanized steel				
Aspect	Galvanized steel fibres cord rolled up and wrapped in a tissue sleeve				
Density [g/cm ³]	7,85				
Strand section [mm ²]	0,300				
Strand resistance at failure [KN]	0,800				
Steel mechanical resistance [MPa]	2700				
Steel elastic modul [GPa]	200				
Elongation ϵ (%)	0,88				
Connector characteristics	Kimisteel FIOCCO GLV				
Diameter [mm]	$\phi 3$	$\phi 5$	$\phi 8$	$\phi 10$	$\phi 12$
Number of strand per cord	15	26	42	52	63
Cord resistant section [mm ²]	4,44	7,70	12,44	15,4	18,53
Cord resistance at failure [KN]	12	20,8	33,60	41,60	50,04
Correlated hole diameter [mm]	8-12	10-14	12-16	14-18	16-20

STORAGE

Stock in a dry and covered place.

WARNING

Product intended for professional use.

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

The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.