



OLY STEEL 1200 G is a unidirectional steel fiber fabric with a total weight of 1200 g/m² with high resistance specific for structural consolidation works.

OLY STEEL 1200 G guarantees excellent tensile strength characteristics, allows you to easily remedy precarious situations affecting both vertical structures and horizontals, allowing, unlike interventions made with traditional materials, reduced invasiveness, as they allow to maintain almost the dimensions of the previous elements and their own weight and therefore of the entire structure remain unchanged. **OLY STEEL** systems have undoubted advantages: very high tensile strength, low specific weight, high resistance to environmental stress. Furthermore, they have the advantage of being applicable quickly and minimally invasively. The suitably installed reinforcement can subsequently be plastered with traditional plasters on the market.

Mechanical properties dry fabric

| Technical Features | Value |
|---|------------------------|
| Density | 7,85 g/cm ³ |
| Ultimate deformation ply, ϵ_{fk} | > 1,6% |
| Wires x cm (warp) | 1,59 |
| Resistant area of the strand | 0,353 mm ² |
| N ° strands / cm | 3,14 |
| Equivalent thickness of the tape | 0,154 mm |
| Total weight | 1293 g/m ² |
| Warp weight 0 ° steel | 1206 g/m ² |
| Warp weight 0 ° glass | 33 g/m ² |
| Warp weight 90 ° glass | 54 g/m ² |
| Tensile strength of the strand | > 2.500 MPa |
| Elastic modulus, E_f | 200 GPa |
| Breaking deformation of the belt | |
| Belt height | 10-30 cm |

Package

The fabric is available in rolls of 50 m, standard length between 10 cm and 30 cm.

Installation of the FRCM system

1. Demolition of the existing plaster until reaching the surface for the portion to be reinforced;
2. Thorough cleaning of dusts, oils and paints of the support on which the reinforcement system must be applied;
3. Washing and wetting of the surface until saturation;
4. Application of a first layer of **OLY WALL STRUKTURA-F** type mortar with a trowel or spray with a suitable plastering machine, following the instructions given in the respective technical data sheets;
5. Application on the previous “fresh” layer of mortar of the **OLY STEEL 1200 G** mesh, taking care to ensure an overlap between adjacent strips of at least 15 cm;
6. Application of a second layer of **OLY WALL STRUKTURA-F** type mortar with a trowel or spray with a suitable plastering machine, following the instructions given in the respective technical data sheets. The total thickness of the mortar must be included, in the case of a single mesh, between 5 and 15 mm, net of the leveling of the substrate. In the case of several nets, the maximum thickness cannot exceed 30 mm.

Note: in the case of reinforcement on a single face of masonry or on two faces but in the presence of sack walls or facing that are not connected or not properly connected, it is necessary to use connectors from the **OLYMPUS** line at the rate of 2-4 connectors per m².

Installation of the SRP system

1. Demolition of the existing plaster until reaching the surface for the portion to be reinforced;
2. Thorough cleaning from dust, oils and paints of the support on which the reinforcement system is to be applied;
3. Apply the **OLY RESIN PRIMER (A + B)** primer on the surfaces subject to the reinforcement following the instructions in the relevant technical sheet;
4. Apply a layer of **OLY RESIN 10 (A + B)** on the “fresh” primer following the instructions in the relative technical data sheet;
5. Installation of the **OLY STEEL 1200 G** fabric with fibers oriented as per the project, taking care to ensure an overlap between adjacent strips of at least 15 cm;
6. Apply a second layer of **OLY RESIN 10 (A + B)** “fresh”;
7. Carry out a manual dusting with quartz sand on the still “fresh” system to increase the useful surface of adhesion for the subsequent laying of civil plaster.

Note: in the case of reinforcement on a single face of masonry or on two faces but in the presence of sack walls or facing that are not connected or not properly connected, it is



necessary to use connectors from the **OLYMPUS** line at the rate of 2-4 connectors per m².

Storage and safety conditions

Store in a covered and dry place;

Use appropriate precautions in handling, transport and storage activities in order to avoid damage;

During the preparation and installation of the reinforcement systems, wear personal protective equipment (head, gloves, goggles and dust masks);

Before installation, the product must be cleaned of dust, oils, greases, etc. ;

For more information, refer to the technical sheets of the mortar and resins.

Warnings

The technical specifications and installation methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product. It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the products is suitable for the intended use

Product for professional use

Rev. 001-20

For information, technical assistance and more system for structural reinforcement system, visit the website:

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