



## **ABOUTUS**

Olympus<sup>®</sup> has been operating for 20 years in the field of technologies for the consolidation and seismic consolidation technologies.

Services for construction sites of all sizes.

Olympus is an Italian company that has been operating for 20 years in the field of innovative technologies and composite materials for the seismic and structural and structural consolidation of monumental buildings and of strategic interest. Working with passion and professionalism and thanks to the profitable collaborations with universities and research institutes of great of great prestige, today we are an important point of point of reference in the construction sector, holders of numerous patents and publications. After having collaborated in large projects on the national territory, today we have expanded our market in Europe and Central America.

#### We invest in research

**Olympus** not only produces seismic and structural seismic and structural consolidation systems investments in research and development every year. Research and Development. The objective is not only to adapt to a sector in continuous evolution from a regulatory point of view, but also to realize technologically innovative solutions to improve the safety of buildings, facilitate the installation for the workers and contain the costs of the works.

Professionalism
and concreteness from research
to construction site

#### We offer services to construction companies of all sizes

In addition to high-quality seismic and structural reinforcement solutions, **Olympus** also offers numerous value-added services added value, diversified according to the size of the sites to be addressed:







## General contractor

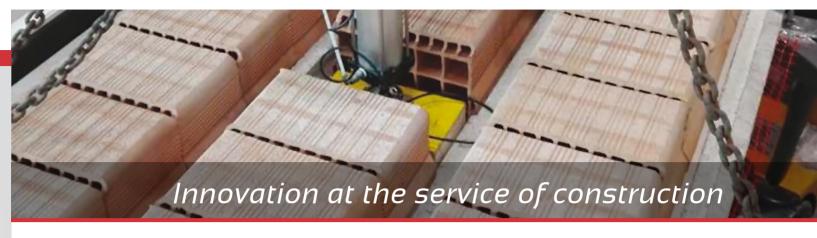
To large construction sites we offer fast shipment of large orders with an exceptional quality/price ratio, including installation, site on-site investigations and testing.

## | Companies | Construction

For SMEs in the construction industry we are a point of reference not only for the supply of ad hoc certified solutions but also for the assistance that we know how to provide in the design phase, for the acceptance of materials and installation.

## Professionals

We work side by side with surveyors, architects and engineers throughout the national territory providing not only our quality solutions but also personnel and resources for design and professional updating.





## RESEARCH AND DEVELOPMENT

Olympus® has been in the construction industry for 20 years. In its research and development department produces innovative materials and machinery.

pproaching the industry with rigor and passion, and thanks to the collaboration with the universities of the territory and with the historical Giordano Institute and its laboratories of the Division of Building Science of Construction, our Research and Development works daily to find innovative solutions innovative solutions at the service of the construction industry.



Olympus' investment in research and development is substantial and makes us a company reference company in the construction industry, on the national and international territory, and in particular in Europe and Central America.

#### **Patents**

proposed by **Olympus** and patented machines, new and structural consolidation a cutting-edge company oriented to a safe and

## Certifications

**Olympus** operates according and professionalism. and innovative equipment. certifications of quality required in which we are active.

#### **Pubblications**

carried out by **Olympus** has



## SERVICES FOR COMPANIES



## GENERAL CONTRACTOR

Quality products, guaranteed services and competitive prices for your works Services for construction sites of all sizes.

**lympus** is an Italian company that boasts 20 years of experience in the production of solutions dedicated to the seismic and structural consolidation of civil, industrial and monumental buildings.

We interface with companies of all sizes, with an offer of high quality products and services at competitive prices, able to meet the needs of large construction sites as well.





#### The certainty of always competitive prices

**Olympus** always manages to give you the certainty of the guaranteed price per square meter

Furthermore, we are well aware that in large construction sites, the choice of materials capable of offering the right balance between quality and price is fundamental. That's why, in addition to our high-level seismic and structural consolidation solutions, we combine a pricing policy capable of making us particularly competitive on the market.

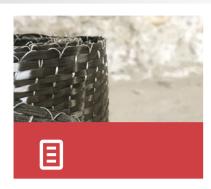


#### Fast delivery even for large orders

**Olympus** is able to perfectly respect the timing and methods of delivery of the materials required by your purchase plan. With us you will be sure to receive the supply of material on site exactly on the days foreseen by your supply program, even for large orders.

And in all cases where you need to receive urgent materials, we guarantee delivery in 24/48 hours!

#### A complete offer of products and services



## | Certified solutions

The certifications obtained by our company and our products are the guarantee of our reliability and of the high quality of the proposed solutions. This is how we ensure the compliance of our solutions with the regulations in force in the sector, and the achievement of the highest quality standards.



## In situ investigations

Olympus can also guarantee the service of diagnostic investigations on civil, industrial and monumental building structures, and a punctual control of the materials arriving on site.



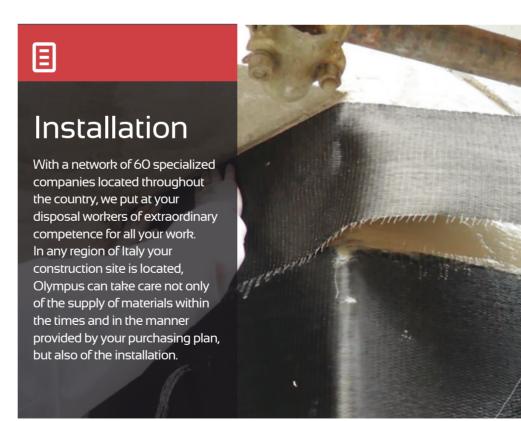
## | Patented products

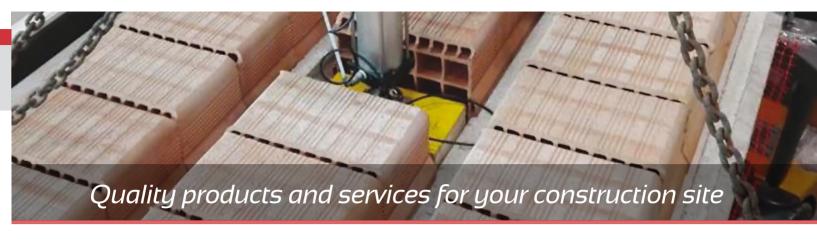
Our solutions are technologically advanced and patented. The patents guarantee that the high quality of our products is unique on the market. This is how we effectively deal with different structural and safety measures for buildings, even in large and complex construction sites.



## Acceptance tests

Olympus can also support your construction company for the testing of materials for structural reinforcement interventions. Thanks to the collaboration with important partner laboratories, in fact, you will be able to carry out your diagnostic tests quickly and effectively.





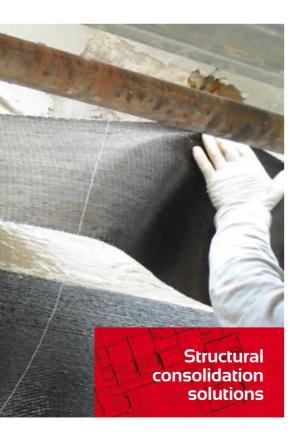


## Assistance in installation

Our technicians reach you on site to provide your workers with all the instructions and information necessary for the perfect installation of seismic and structural consolidation systems. Your construction company will have a full day of practical training available, but you can also request additional days.

## Training

We put all our skills at the disposal of professionals and workers of construction companies, for a better use of the most innovative seismic and structural consolidation systems, both from a design and a practical point of view.



# Technical design assistance

Our technical office offers free support to the designer to define the best structural solution. Our technical office will show you all the possibilities available to you to proceed with work in line with your budget, implementation times and your objectives. You will also be able to access our calculation software that allows you to easily verify each type of intervention.

## Acceptance of materials

Together with all the products requested by you on site,
Olympus will also send you a kit that makes accepting materials a quick and easy process. You can also request the intervention of one of our technicians on site who will offer you all the assistance you need!



## SERVICES FOR PROFESSIONALS

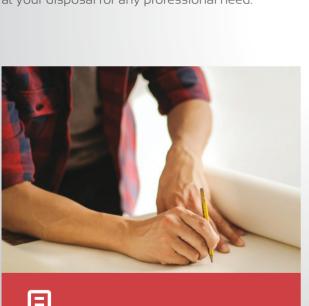


## Everything you need to make your next construction project

ven the smallest structural consolidation works require great precision in the calculation phase, a high quality of the products used and a perfect installation, in order for the work to be carried out in a workmanlike manner.

**This is why Olympus** works side by side with surveyors throughout the country, creating the best solutions on a case by case basis, even in small construction sites.

Our highly specialized team of engineers is at your disposal for any professional need.





## Design assistance

We have developed calculation software that allow all technicians to easily verify each type of intervention. In addition, our team can help you carry out the project, taking care of sizing the intervention and producing the technical reports you need.





By contacting **Olympus** you will be guaranteed to always use patented and optimized systems for your work, optimized over time and in line with all industry regulations and technical requirements. Our patents guarantee the uniqueness of our products and the commitment to always create innovative solutions, capable of adapting to different needs.



## Certified solutions

**Olympus** is active throughout the country following strict criteria of safety, quality and professionalism, guaranteeing not only precision, reliability and punctuality, but also certified solutions created specifically for each of your projects.







## Training

**Olympus** organizes professional training events dedicated to designers on the national territory. In particular, our conferences and seminars are professional updating events on seismic reinforcement interventions with FRP and FRCM systems and structural consolidation to maximize the safety of buildings.





## Technical Application Course for the formation of a CCE LIST OF COMPANIES SPECIALIZED IN THE LAYING OF FRP SYSTEMS

Technical Application Course for the formation of a CCE LIST OF SPECIALIZED COMPANIES in the laying of FRP reinforcement systems on structures in reinforced concrete and masonry

PREPARE FOR THE 110% SUPERBONUS WITH THE COURSE FOR COMPANIES SPECIALIZING IN FRP CONSOLIDATION SYSTEMS

he CNR Technical Document CNR-DT 200 R1/2013 at paragraph 2.3.1 defines that "The contractors and applicators of FRP reinforcement systems FRP reinforcement systems must have specific and proven proven skills in the application of composite materials on concrete and masonry structures masonry structures, to be documented through previous experience. In particular, the personnel in charge of to the installation must possess a specific and proven demonstrated ability in the application of FRP reinforcement systems for structural purposes. Contractors must also verify that the products comply with the prescriptions indicated by the Designer and, in the case of unavailability of materials with the requirements indicated, they must agree on possible alternatives with the designer and/or the Director of Works."

It is therefore required an increasing competence to companies and technicians on the use of FRP systems that must be properly proven.



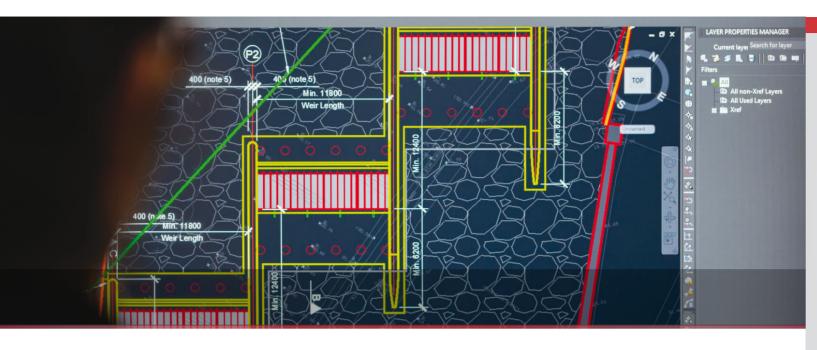


#### **Professional Technical Training**

In order to form a CCE list of companies specialized in the installation of systems of FRP reinforcement systems on reinforced concrete and masonry structures, the CCE - Composite Center in building, has organized the first Italian course addressed to technicians and operators of companies in the sector. "Upon completion of the course the participants will perform a theoretical and practical examination by Istituto Giordano, Certification Body for the professional figures. The exam consists of a multiple choice assessment test for technicians and a test of correct installation of reinforcement systems for applicators of reinforcement for the applicators. Upon passing of the exam by both representatives of the company, Istituto Giordano will issue certificates of Qualification to prove the experience of the course participants and the company will be included within the CCE list of specialized companies which will be accessible on the website

www.centrocompositiedilizia.it.

See the "training courses" section on the www.centrocompositiedilizia.it to be updated on the next available dates





## Free software to support the design of interventions of reinforcement with FRP, FRCM and CRM

In order to collaborate with technicians involved in structural consolidation projects with FRP, FRCM and CRM systems, **Olympus** has developedseveral calculation softwares that enable professionals to easily perform structural tructural calculation of reinforced concrete and masonry structures. The software has been developed on the **Olympus'** experience of more than 20 years in the years of experience in the field of structural consolidation.



#### ur Experience

In 2005 **Olympus** developed the first calculation sheets for the design of structural consolidation with composite materials FRP. In 20 years the spreadsheets have been used by hundreds of professionals by hundreds of professionals in Italy and in many European countries that have allowed the company to verify and perfect the functioning of the spreadsheets that have represented the basis for the development of new software.

In 2013 **Olympus** was the first company in the world to develop **three iPhone apps "OLYMPUS iFRP"** apps that enabled designers to elaborate the dimensioning of the intervention on site with their iPhone.

#### The new software

In 2019 **Olympus** has developed its new calculation software in full compliance with the current technical standards for construction, the CSLLPP Guidelines of the CSLLPP and the Technical Documents of the CNR

The software was developed by an experienced team of structural engineers and computer programmers with proven experience in the field of structural consolidation and have been tested on hundreds consolidation interventions, also comparing the results with those of the main structural consolidation software on the market.

The software developed by **Olympus** is based on the results of numerous research projects carried out by the company for over 20 years, in collaboration with Universities and Research Institutes.

The software dedicated to structural reinforcement with FRP are in particular two, **OLY CONCRETE APP** that allows the dimensioning of structural elements in reinforced concrete and **OLY MASONRY APP** which allows the dimensioning of structural elements reinforced with FRP systems of the OLYMPUS FRP line.

The software dedicated to structural reinforcement with FRCM is **OLY STONE APP** that allows the dimensioning of structural elements inasonry reinforced with FRCM.



Oly Concrete App



Oly Masonry App



Oly Safe App



Oly Stone App



Oly Floor App



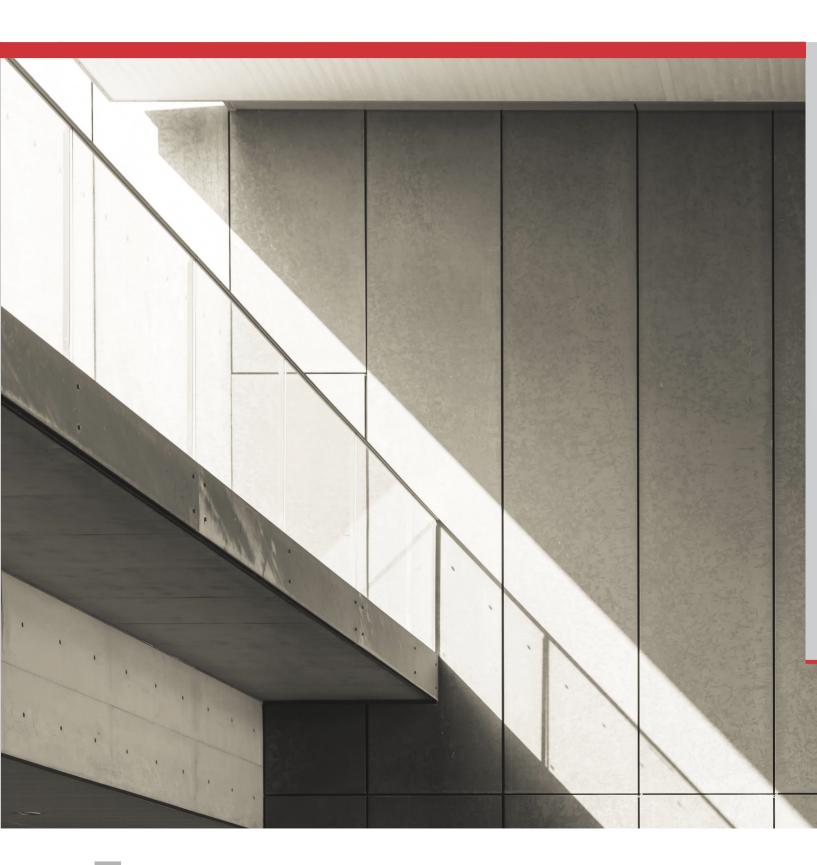
Sisma Bonus 110%

#### Advantage of new calculation software

The use of a calculation software developed by a company that has been certifying and engineering and engineers composite materials for structural for structural consolidation and develops applications and calculation software based on consolidated experience in this sector, represents for the professional a guarantee of safety and professionalism.

The great advantage of calculation software for FRP, FRCM and CRM systems offered by **Olympus** is the ability to automatically generate a calculation report downstream of the structural verification which is automatically drawn up by the software.

The technician can then use the calculation reports calculation reports prepared by the software to integrate their design drawings.



## PRODUCT AND SOLUTIONS



#### Olympus FRP

Structural consolidation and seismic adaptation with CVT certified FRP systems - Technical evaluation certificate



## Olympus SAFE Anfounding

Anti-punching systems certified at the testing laboratories of Istituto Giordano SpA



#### Olympus SAFE Anti-tip

Anti-tipping systems applicable on reinforced concrete buildings for the connection of perimeter and internal cladding



#### **Olympus STONE**

Structural reinforcement of historic and valuable walls with FRCM and CRM systems



## Olympus STONE FACE VIEW

Reinforced facing masonry restyling systems



#### Olympus FLOOR

Collaborating insoles lightened with GFRP fiberglass reinforcing mesh





## **OLYMPUS FRP**

## **STRUCTURAL CONSOLIDATION** and SEISMIC ADAPTATION with CVT certified FRP systems

ructural safety and seismic adaptation of masonry buildings are issues of current and significant importance within civil society. There are numerous structures that require structural reinforcement and many seismic events have affected and continue to affect the Italian territory over the years. Therefore, the need has emerged to quarantee the structures adequate performance in accordance with current regulations and numerous seismic phenomena.

OLYMPUS FRP fits into this context with the use of composite materials made up of fibers with high mechanical strength and polymeric resins, which represent an innovative technology compared to traditional consolidation systems, guaranteeing countless advantages both from a technical and practical point of view.

FRP materials, in fact, thanks to their high mechanical strength and reduced impact on structures in terms of weight, rigidity and geometry, represent an effective solution for the consolidation of structures in reinforced concrete, masonry, wood and steel. Furthermore, the absence of oxidation phenomena guarantees a high durability of these systems over time, eliminating the typical problems of traditional interventions.



Structural consolidation solutions just a click away: www.olympus-international.com



#### The Olympus FRP line of solutions

The OLYMPUS FRP line offers a wide range of resins and fabrics in carbon fiber, glass, basalt, aramid and steel available in various weights and different warping. The pultruded carbon fiber sheets are available in numerous sizes and elastic modules and the pultruded carbon fiber, glass fiber and aramid bars are also present with a wide range of products.

**Drapery** Oly Tex e Oly Steel

**\*** 

The FRP systems are configured as kits as they consist of several components which, during application, are joined to form the FRP system which will be used for structural consolidation.

**Grid** Oly Grid

**\*** 

**Pultruded**Oly Plate e
Oly Rod

**\*\*** 

**Resins**Oly Resin

**Mortars** Oly Grout e Wall

\*

**Connection system** Oly Rod

\*

Accessories

The Oympus-FRP systems are **certified** according to the Guidelines of the Superior Council of Public Works with **Technical Assessment Certificate**.







#### The possible uses

The composite materials of the OLYMPUS-FRP line can be used in the structural consolidation of existing buildings. Thanks to the mechanical properties of the systems it is possible to use them in the seismic adaptation of masonry buildings or in local repairs to remedy deficiency situations The application of FRP systems must take place on suitable substrates which can be in reinforced concrete, load-bearing masonry, wood and steel. The following are the most common possible uses according to the structural type of elements to be reinforced.

The following are the most common possible uses according to the structural type of elements to be reinforced.

#### a) Consolidation works on reinforced concrete elements

- Pillars > shear reinforcement, flexion and normal effort
- Beams > shear and bending reinforcement
- Brick-cement floors > flexural reinforcement
- Full reinforced concrete slabs > flexural reinforcement

#### b) Consolidation works on masonry elements

- Masonry panels > reinforcement for actions in the plane of the masonry
- Masonry panels > reinforcement for off-plan actions

#### c) Consolidation works on wooden elements

- Beams > bending reinforcement
- Heads of wooden beams > restoration and consolidation with FRP

#### c) Consolidation works on steel elements

- Beams > bending reinforcement
- Floors with metal beams > flexural reinforcement
- Trusses > reinforcement of tense elements







#### OLY TEX CARBO 300 UNI-AX HR

*OLY TEX CARBO 300 UNI-AX HR SYSTEM* is a structural FRP reinforcement system qualified according to LG-2015CVT n. 247-2019 in class 21OC and in compliance with CNR DT 200 RI/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements.





#### OLY TEX CARBO 400 UNI-AX HR

*OLY TEX CARBO 400 UNI-AX HR SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 CVT 247-2019 in class 210C and in compliance with CNR DT 200 RI/2013 specific for the structural consolidation of elements in reinforced concrete, prestressed concrete, masonry, steel and wood elements.

## OLY TEX CARBO 600 UNI-AX HR

*OLY TEX CARBO 600 UNI-AX HR SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 CVT 247-2019 in class 210C and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements.



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| Article code        | CU300HR  | CU400HR  | CU600HR  |
|---------------------|--|--|--|
| Product             | OLY TEX CARBO 300<br>UNI-AX HR                   | OLYTEX CARBO 400<br>UNI-AX HR                    | OLYTEX CARBO 600<br>UNI-AX HR                    |
| Packaging           | L = 50 ml H = variable                           | L = 50 ml H = variable                           | L = 50 ml H = variable                           |
| Description         | Uniaxial fabric<br>carbon fiber<br>high strength | Uniaxial fabric<br>carbon fiber<br>high strength | Uniaxial fabric<br>carbon fiber<br>high strength |
| Weight              | 300 g/sqm  | 400 g/sqm  | 600 g/sqm  |
| Class of resistence | 210C Class                                       | 210C Class                                       | 210C Class                                       |

#### Carbon fiber textiles



#### OLY TEX CARBO 300 UNI-AX HM

*OLY TEX CARBO 300 UNI-AX HM SYSTEM* is a FRP structural reinforcement system specific for specifically designed for structural consolidation of reinforced concrete, prestressed reinforced reinforced concrete, prestressed reinforced concrete, masonry, steel and wood.

#### OLY TEX CARBO 400 UNI-AX HM

OLY TEX CARBO 400 UNI-AX HR SYSTEM is a FRP structural reinforcement system qualified according to LG-2015 CVT 247-2019 in class 210C and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements.





#### OLY TEX CARBO 600 UNI-AX HM

OLY TEX CARBO 600 UNI-AX HR SYSTEM is a FRP structural reinforcement system qualified according to LG-2015 CVT 247-2019 in class 210C and in compliance with CNR DT 200 R1/2013.

| es       |                     |  |  |  |
|----------|---------------------|--|--|--|
| textiles | Article code        | СИЗООНМ  | CU400HM  | CU600HM  |
| n fiber  | Product             | OLY TEX CARBO 300<br>UNI-AX HM                 | OLY TEX CARBO 400<br>UNI-AX HM                 | OLY TEX CARBO 600<br>UNI-AX HM                 |
| arbon    | Packaging           | L = 50 ml H = variable                         | L = 50 ml H = variable                         | L = 50 ml H = variable                         |
| U        | Description         | Uniaxial fabric<br>carbon fiber<br>high module | Uniaxial fabric<br>carbon fiber<br>high module | Uniaxial fabric<br>carbon fiber<br>high module |
|          | Weight              | 300 g/sqm                                      | 400 g/sqm                                      | 600 g/sqm                                      |
|          | Class of resistence | 210C Class                                     | 210C Class                                     | 210C Class                                     |

#### Carbon fiber textiles



## OLY TEX CARBO 380 QUADRI-AX HR

OLY TEX CARBO 380 QUADRI-AX HR SYSTEM is a qualified FRP structural reinforcement system according to LG-2015 CVT 247-2019 in class 210C and in compliance with CNR DT 200 R1/2013 specific for interventions of structural consolidation of elements in reinforced concrete, prestressed concrete, masonry, steel and wood.

| 52                    |                     |   |
|-----------------------|---------------------|---|
| Carbon fiber textiles | Article code        | CQ380HR   |
| n fiber               | Product             | OLY TEX CARBO 380<br>QUADRI-AX HR                   |
| arbo                  | Packaging           | L = 50 ml H = 127 cm                                |
| Ú                     | Description         | Quadriaxial fabric<br>carbon fiber<br>high strength |
|                       | Weight              | 380 g/sqm   |
|                       | Class of resistence | 210C Class  |
|                       |                     |   |





## OLY TEX ARAMID 400 UNI-AX HM

The OLY TEX ARAMIDE 400 UNI-AX HM SYSTEM is a qualified FRP structural reinforcement system according to LG-2015 CVT n. 247-2019 in class 100A and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of reinforced concrete elements, prestressed reinforced concrete, masonry, steel and wood.

| S                    |                     |  |
|----------------------|---------------------|--|
| Aramid fiber fabrics | Article code        | AU400HM  |
| id fibe              | Product             | OLYTEX ARAMID 400<br>UNI-AX HM                 |
| rami                 | Packaging           | L = 50 ml H = variable                         |
| <                    | Description         | Uniaxial fabric<br>aramid fiber<br>high module |
|                      | Weight              | 400 g/sqm                                      |
|                      | Class of resistence | 100A Class                                     |
|                      |                     |  |

#### Fiberglass fabrics

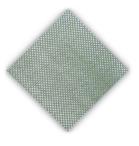


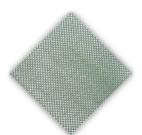
## OLY TEX GLASS 300 UNI-AX HR

*OLY TEX GLASS 300 UNI-AX HR HR* is a unidirectional fiberglass fabric with a weight of 300 g/m² and high grammage 300 g/m² with high mechanical resistance, specific for interventions of structural consolidation of masonry, wood and in some cases reinforced concrete elements.

#### OLY TEX GLASS 600 UNI-AX HR

*OLY TEX GLASS 600 UNI-AX HR* is a unidirectional fiberglass fabric with a weight of 600 g/m² and high grammage 600 g/m² with high mechanical resistance specific for interventions of structural consolidation of structural consolidation of masonry, wood and in some cases reinforced concrete elements.



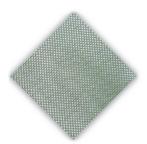


## OLY TEX GLASS 900 UNI-AX HR

OLY TEX GLASS 900 UNI-AX HR is a unidirectional glass fiber fabric with a weight of grammage 900 g/m² with high mechanical resistance specific for interventions of structural consolidation of structural consolidation of masonry, wood and in some cases reinforced concrete elements.

| DVICS    |                     |   |   |   |
|----------|---------------------|---|---|---|
| D        | Article code        | GU300HR   | GU600HR   | GU900HR   |
| Derglass | Product             | OLY TEX GLASS 300<br>UNI-AX HR                      | OLY TEX GLASS 600<br>UNI-AX HR                      | OLYTEX GLASS 900<br>UNI-AX HR                       |
| <u>L</u> | Packaging           | L = 50 ml H = variable                              | L = 50 ml H = variable                              | L = 50 ml H = variable                              |
|          | Description         | Uniaxial fabric<br>fiberglass ad<br>high resistence | Uniaxial fabric<br>fiberglass ad<br>high resistence | Uniaxial fabric<br>fiberglass ad<br>high resistence |
|          | Weight              | 300 g/sqm   | 600 g/sqm   | 900 g/sqm   |
|          | Class of resistence | 60G Class   | 60G Class   | 60G Class   |

#### Fiberglass fabrics



## OLY TEX GLASS 1140 QUADRI-AX HR

OLY TEX GLASS 1140 QUADRI-AX HR is a balanced four-axial balanced glass fiber fabric grammage 1140 g/m² with high mechanical resistance specific for the interventions of structural consolidation of masonry elements, wood and in some cases in reinforced concrete.

Fiberglass fabri GQ1140HR Article code Product **OLY TEX GLASS 1140 QUADRI-AX HR** Packaging L = 50 ml H = variableDescription Uniaxial fabric fiberglass ad high resistence Weight 1140 g/sqm Class of resistence 60G Class



#### Steel fiber fabrics



#### OLY STEEL 750 G

*OLY STEEL 750 G* is a structural reinforcement fabric consisting of micro strands of galvanized steel galvanized steel UHTSS (Ultra High Tensile Strength Steel) with high resistance, specific for structural consolidation. The fabric can be used in FRP systems in combination with epoxy resins of OLY RESIN line. OLY STEEL systems have undoubted advantages: very high tensile strength, low specific weight, high specific weight, high resistance to environmental stresses.

#### OLY STEEL 1200 G

OLY STEEL 1200 G is a structural reinforcement fabric made of micro strands of galvanized steel UHTSS (Ultra High Tensile Strength Steel) galvanized steel, specific for structural consolidation. The fabric can be used in FRP systems in combination with epoxy resins of the OLY RESIN line. OLY STEEL systems have undoubted advantages: high tensile strength, low specific tensile strength, low specific weight, high resistance to environmental stress.





### OLY STEEL 2000 G

OLY STEEL 2000 G is a structural reinforcement fabric made of micro strands of galvanized steel UHTSS (Ultra High Tensile Strength Steel) galvanized steel, specific for structural consolidation. The fabric can be used in FRP systems in combination with epoxy resins of OLY RESIN line. OLY STEEL systems have undoubted advantages: very high tensile strength, low specific weight, high specific weight, high resistance to environmental stresses.

| ics       |                     |  |  |  |
|-----------|---------------------|--|--|--|
| r fabrics | Article code        | SU750G   | SU1200G  | SU2000G  |
| el fiber  | Product             | OLY STEEL 750 G  | OLY STEEL 1200 G   | OLY STEEL 2000 G                                   |
| Steel     | Packaging           | L = 25 ml H = variable                                   | L = 25 ml H = variable                                   | L = 25 ml H = variable                             |
|           | Description         | Unidirectional fabric<br>steel fiber<br>galvanized UHTSS | Unidirectional fabric<br>steel fiber<br>galvanized UHTSS | Unidirectional fabric steel fiber galvanized UHTSS |
|           | Weight              | 727 g/sqm  | 1200 g/sqm   | 2000 g/sqm   |
|           | Class of resistence | 200 GPa Module   | 200 GPa Module   | 200 GPa Module                                     |

#### Basalt fiber textiles

## OLY TEX BASALT 400 UNI-AX HR

OLY TEX BASALT 400 UNI-AX HR is a structural reinforcement fabric in basalt fiber for FRP systems.basalt fiber reinforcement fabric for FRP systems in compliance with CNR DT 200 RI/2013 specifically for interventions structural consolidation of reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements, masonry, steel and wood.





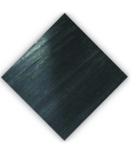
## OLY TEX BASALT 600 UNI-AX HR

*OLY TEX BASALT 600 UNI-AX HIR* is a structural reinforcement fabric in basalt fiber for FRP systems. basalt fiber reinforcement fabric for FRP systems in compliance with CNR DT 200 RI/2013 specifically for the structural reinforcement of reinforced concrete, prestressed concrete, masonry, steel elements. reinforced concrete, prestressed concrete, masonry, steel and wood elements.

| es            |                     |                                 |                                 |
|---------------|---------------------|---------------------------------|---------------------------------|
| textiles      | Article code        | BU400HR                         | BU600HR                         |
| lt fiber      | Product             | OLY TEX BASALT 400<br>UNI-AX HR | OLY TEX BASALT 600<br>UNI-AX HR |
| <b>3asalt</b> | Packaging           | L = 50 ml H = variable          | L = 50 ml H = variabile         |
|               | Description         | Uniaxial fabric<br>basalt fiber | Uniaxial fabric<br>basalt fiber |
|               | Weight              | 400 g/sqm                       | 600 g/sqm                       |
|               | Class of resistence | 60B class                       | 60B class                       |
|               |                     |                                 |                                 |

### OLY PLATE CARBO HR 50X1,4

OLY PLATE CARBO HR SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 in class CI50/2300 and in compliance with CNR DT 200 RI/2013 specific for structural consolidation of reinforced concrete elements, prestressed reinforced reinforced concrete, prestressed concrete, masonry, steel and wood elements. The system consists of a pultruded high-strength carbon fiber sheet OLY PLATE CARBO HR and a two-component epoxy resin two-component epoxy resin OLY RESIN 10. Section 50 x 1,4 mm.



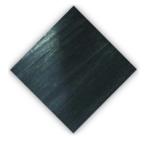


### OLY PLATE CARBO HR 50X1,2

OLY PLATE CARBO HR 50×1,2 (high resistance) is a pre-impregnated and prepolymerized carbon fiber available in width 50 mm and thickness 1.2 mm. 1,2 mm thickness, obtained by pultrusion processing specifically for structural consolidation interventions, structural consolidation. The foil has both faces with improved adherence with improved with double peel-ply. Section 50 x 1,2 mm.

#### OLY PLATE CARBO HR 60X1.4

OLY PLATE CARBO HR SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 in class C150/2300 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of reinforced concrete elements. prestressed reinforced reinforced concrete, prestressed concrete, masonry, steel and wood elements. The system consists of a pultruded high-strength carbon fiber sheet OLY PLATE CARBO HR and a two-component epoxy resin two-component epoxy resin OLY RESIN 10. Section 60 x 1,4 mm.



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| Article code        | CL50HR  | CL51HR  | CL60HR  |
|---------------------|---|---|---|
| Product             | OLY PLATE CARBO HR<br>50X1,4                                | OLY PLATE CARBO HR<br>50X1,2                                | OLY PLATE CARBO HR<br>60X1.4                                |
| Packaging           | 25/50/100 ml  | 25/50/100 ml  | 25/50/100 ml  |
| Description         | High pultruded carbon fiber with high mechanical resistance | High pultruded carbon fiber with high mechanical resistance | High pultruded carbon fiber with high mechanical resistance |
| Dimension           | Section 50 x 1,4 mm   | Section 50 x 1,2 mm   | Section 50 x 1,4 mm   |
| Class of resistence | C150/2300 Class   | C150/2300 Class   | C150/2300 Class   |



### OLY PLATE CARBO HR 80X1,4

*OLY PLATE CARBO HR SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 in class C150/2300 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of reinforced concrete elements, prestressed reinforced reinforced concrete, prestressed concrete, masonry, steel and wood elements. The system consists of a pultruded high-strength carbon fiber sheet OLY PLATE CARBO HR and a two-component epoxy resin two-component epoxy resin OLY RESIN 10. Section 80 x 1,4 mm.

#### OLY PLATE CARBO HR 100X1,2

*OLY PLATE CARBO HR 50×1,2* (high resistance) is a pre-impregnated and prepolymerized carbon fiber available in 50 mm width and 1,2 mm thickness. 1,2 mm thickness, obtained by pultrusion processing specifically for structural consolidation interventions. structural consolidation. The foil has both faces with improved adherence with improved with double peel-ply. Section 100 x 1,2 mm.





#### OLY PLATE CARBO HR 120X1.4

OLY PLATE CARBO HR SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 in class C150/2300 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of reinforced concrete elements, prestressed reinforced reinforced concrete, prestressed concrete, masonry, steel and wood elements. The system consists of a pultruded high-strength carbon fiber sheet OLY PLATE CARBO HR and a two-component epoxy resin two-component epoxy resin OLY RESIN 10. Section 120 x 1,4 mm.

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| Article code        | CL80HR  | CL100HR   | CL120HR   |
|---------------------|---|---|---|
| Product             | OLY PLATE CARBO<br>HR 80X1,4                                | OLY PLATE CARBO<br>HR 100X1,2                               | OLY PLATE CARBO<br>HR 120X1.4                               |
| Packaging           | 25/50/100 ml  | 25/50/100 ml  | 25/50/100 ml  |
| Description         | High pultruded carbon fiber with high mechanical resistance | High pultruded carbon fiber with high mechanical resistance | High pultruded carbon fiber with high mechanical resistance |
| Dimension           | Section 50 x 1,4 mm   | Section 100 x 1,2 mm  | Section 120 x 1,4 mm  |
| Class of resistence | C150/2300 Class   | C150/2300 Class   | C150/2300 Class   |

### OLY PLATE CARBO HR 150X1,4

OLY PLATE CARBO HR SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 in class C150/2300 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation of reinforced concrete elements, prestressed reinforced reinforced concrete, prestressed concrete, masonry, steel and wood elements. The system consists of a pultruded high-strength carbon fiber sheet OLY PLATE CARBO HR and a two-component epoxy resin two-component epoxy resin OLY RESIN 10. Section 150 x 1,4 mm.





## OLY PLATE CARBO HM 50X1,4

OLY PLATE CARBO HM SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 RI/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section 50 x 1,4 mm.

#### **OLY PLATE CARBO HM 50X1.2**

OLY PLATE CARBO HM SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 RI/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section  $50 \times 1,2 \, \text{mm}$ .

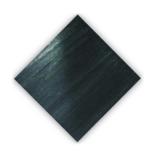


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| Article code        | CL150HR   | CL50HM  | CL51HM  |
|---------------------|---|---|---|
| Product             | OLY PLATE CARBO<br>HR 150x1,4                               | OLY PLATE CARBO<br>HM 50X1,4                          | OLY PLATE CARBO<br>HM 50X1,2                          |
| Packaging           | 25/50/100 ml  | 25/50/100 ml  | 25/50/100 ml  |
| Description         | High pultruded carbon fiber with high mechanical resistance | High pultruded carbon fiber with high elastic modulus | High pultruded carbon fiber with high elastic modulus |
| Dimension           | Section 150 x 1,4 mm  | Section 50 x 1,4 mm                                   | Section 50 x 1,2 mm                                   |
| Class of resistence | C150/2300 Class   | C200/1800 Class                                       | C200/1800 Class                                       |

### OLY PLATE CARBO HM 60X1,4

*OLY PLATE CARBO HM SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section 60 x 1.4 mm.





### OLY PLATE CARBO HM 80X1,4

*OLY PLATE CARBO HM SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 RI/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section 80 x 1,4 mm.

## OLY PLATE CARBO HM 100X1,4

OLY PLATE CARBO HM SYSTEM is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 RI/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section 100 x 1,4 mm.



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| Article code        | CL60HM  | CL80HM  | CL100HM   |
|---------------------|---|---|---|
| Product             | OLY PLATE CARBO<br>HM 60X1.4                          | OLY PLATE CARBO<br>HM 80X1.4                          | OLY PLATE CARBO<br>HM 100X1,4                         |
| Packaging           | 25/50/100 ml  | 25/50/100 ml  | 25/50/100 ml  |
| Description         | High pultruded carbon fiber with high elastic modulus | High pultruded carbon fiber with high elastic modulus | High pultruded carbon fiber with high elastic modulus |
| Dimension           | Section 60 x 1,4 mm                                   | Section 80 x 1,4 mm                                   | Section 100 x 1,4 mm                                  |
| Class of resistence | C200/1800 Class                                       | C200/1800 Class                                       | C200/1800 Class                                       |



## OLY PLATE CARBO HM 120X1,4

*OLY PLATE CARBO HM SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section 120 x 1.4 mm.

## OLY PLATE CARBO HM 150X1,4

*OLY PLATE CARBO HM SYSTEM* is an FRP structural reinforcement system qualified according to LG-2015 CVT n. 247-2019 in class C200/1800 and in compliance with CNR DT 200 R1/2013 specific for structural consolidation interventions of elements in reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements. The system consists of a pultruded high strength carbon fiber foil. Section 150 x 1,4 mm.



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| Article code        | CL120HM   | CL150HM   |
|---------------------|---|---|
| Product             | OLY PLATE CARBO<br>HM 120x1,4                         | OLY PLATE CARBO<br>HM 150x1,4                         |
| Packaging           | 25/50/100 ml  | 25/50/100 ml  |
| Description         | High pultruded carbon fiber with high elastic modulus | High pultruded carbon fiber with high elastic modulus |
| Dimension           | Section 120 x 1,4 mm                                  | Section 150 x 1,4 mm                                  |
| Class of resistence | C200/1800 Class                                       | C200/1800 Class                                       |

#### Bidirectional mesh



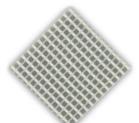
#### OLY GRID CARBO 170/300

OLY GRID CARBO BI-AX HR SYSTEM is a FRP structural reinforcement system in compliance with the CNR DT 200 RI/2013 specific for structural consolidation of reinforced concrete, prestressed concrete, reinforced concrete, prestressed concrete, masonry, steel and wood. Available in the 170g/sqm and 300g/sqm version.

#### **OLY GRID ARAMIDE 180**

OLY GRID ARAMIDE 180 BI-AX HM is a bi-directional aramid fiber net with a weight of 180 g/m² with a high elastic modulus specific for interventions structural consolidation of reinforced concrete, prestressed reinforced concrete, masonry, steel and wood elements, masonry, steel and wood.





#### **OLY GRID GLASS 300**

OLY GRID GLASS 300 BI-AX HR SYSTEM is a structural FRP reinforcement system in compliance with FRP structural reinforcement system in accordance with CNR DT 200 RI/2013 specifically for interventions structural consolidation of elements in reinforced concrete, prestressed concrete, masonry, steel and wood.

The system consists of a bidirectional network of high strength glass fiber OLY GRID GLASS 300 BI-AX HR two-way carbon fiber mesh with high resistance mortars such as OLY WALL STRUKTURA-F.

| Sh                 |                     |  |  |  |   |
|--------------------|---------------------|--|--|--|---|
| Bidirectional mesh | Article code        | CG170HR  | CG300HR  | AG180HM  | GG300HR   |
|                    | Product             | OLY GRID<br>CARBO 170                            | OLY GRID<br>CARBO 300                            | OLY GRID<br>ARAMIDE 180                          | OLY GRID<br>GLASS 300                           |
| Bio                | Packaging           | L=50 ml H=100 cm                                 | L=50 ml H=100 cm                                 | L=50 ml H=100 cm                                 | L=50 ml H=100 cm                                |
|                    | Description         | Balanced net<br>bidirectional in<br>carbon fiber | Balanced net<br>bidirectional in<br>carbon fiber | Balanced net<br>bidirectional in<br>aramid fiber | Balanced net<br>bidirectional in<br>glass fiber |
|                    | Weight              | 170 g/mq   | 300 g/mq   | 180 g/mq   | 300 g/mq  |
|                    | Class of resistence | 210C class                                       | 210C class                                       | 100A class                                       | 60G class                                       |



#### **OLY RESIN PRIMER**

OLY RESIN PRIMER is a two-component epoxy resin formulated to consolidate porous and friable substrates in concrete, lime, plaster, brick, making the surfaces compact, dustproof, ideal for good anchorage of subsequent coatings. It is water-based, odorless, solvent-free, ideal for use in enclosed, poorly ventilated rooms or where food products are processed. OLY RESIN PRIMER is supplied in two premeasured containers (A, resin + B, hardener). OLY RESIN PRIMER is CE marked as a protective coating according to 1504-2.





## OLY RESIN 10 (10kg)

*OLY RESIN 10 (A+B)* is a two-component thixotropic adhesive based on solvent-free epoxy resins, supplied in premeasured packages with ratio resin / hardener 1/1. It has an excellent adhesion to various substrates and does not undergo shrinkage in the hardening that takes place by chemical reaction without emission of substances volatile substances. Pack 10 Kg.

### OLY RESIN 10 (20kg)

*OLY RESIN 10 (A+B)* is a two-component thixotropic adhesive based on solvent-free epoxy resins, supplied in premeasured packages with ratio resin / hardener 1/1. It has an excellent adhesion to various substrates and does not undergo shrinkage in the hardening that takes place by chemical reaction without emission of substances volatile substances. Pack 20 Kq.



|              |  | <b>₩</b>                                       | <b>↔</b>                                       |
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| Article code | PRIMO1                                     | RES10-1  | RESIO  |
| Product      | OLY RESIN PRIMER                           | OLY RESIN 10                                   | OLY RESIN 10                                   |
| Packaging    | Kg 6 (4,7+1,3)                             | Kg 10 (5+5)                                    | Kg 20 (10+10)                                  |
| Description  | Epoxy primer two-<br>component water based | Epoxy adhesive two-component                   | Epoxy adhesive two-component                   |
| Use          | Consolidation support                      | Pultruded bonding / regularization of supports | Pultruded bonding / regularization of supports |
| Performance  | 0,25 - 0,3 kg/mq                           | 1,0 - 2,0 kg/mq                                | 1,0 - 2,0 kg/mq                                |

#### Resins



#### **OLY RESIN 20**

#### **OLY RESIN I**

*OLY RESIN I* is a two-component styrene-free polyester resin for medium and light loads for fastenings in concrete, solid masonry and hollow bricks. The resin, due to its high adhesion value and ease of penetration into the porosity and hollow areas, allows a secure fixing without expansion and therefore without tension in the base material. Mix ratio 1 (catalyst) to 10 (polyester resin).





#### **OLY RESIN EPO-I**

*OLY RESIN EPO-I (A+B)* is a two-component, solvent-free epoxy resin, specifically designed for the grouting of iron, steel, carbon, glass and aramid bars. It is supplied in two premeasured packages (A resin + B hardener). OLY RESIN EPO-I (A+B) is CE marked as a structural bonding agent according to EN 1504-4.

| Resins |              |  |  |   |
|--------|--------------|--|--|---|
|        | Article code | RES20  | RES-I  | RES10I                                  |
|        | Product      | OLY RESIN 20                                 | OLY RESIN I  | OLY RESIN EPO-I                         |
|        | Packaging    | Kg 6 (4+2)                                   | Cartdriges 380 ml                                  | Cartdriges600 g                         |
|        | Description  | Epoxy resin<br>two-component                 | Styrene-free polyester resin styrene in cartridges | Two component epoxy resin in cartridges |
|        | Use          | Impregnation/Bonding FRP impregnated in situ | Structural anchors                                 | Structural anchors                      |
|        | Performance  | 0,6 - 1,2 kg/mq                              | 1 kg/dmc   | l kg/dmc                                |

# OLY ROPE CARBO 6-8-10-12

OLY ROPE CARBO is a structural element with circular section in carbon fibre carbon fiber, in compliance with CNR DT 200 RI/2013, consisting of mono-directional carbon filaments mono-directional carbon filaments that are put together to form a "strand"; is widely used in the consolidation of building structures, both new and historical-monumental buildings, for the realization of reinforced nails, chains, intradossal reinforcement of vaults, reinforcement of masonry or anchorage on masonry. The strand is available in diameters 6-8-10-12 mm.



| Article code | ROPO6C                                    | ROP08C  |
|--------------|---|---|
| Product      | OLY ROPE CARBO 6                          | OLY ROPE CARBO 8  |
| Packaging    | 10 m roll                                 | 10 m roll   |
| Description  | Stranded wire<br>made of<br>high strength | Stranded wire<br>made of<br>high strength   |
| Diameter     | 6 mm                                      | 8 mm  |
| Fiber        | Carbon                                    | Carbon  |
|              | Product  Packaging  Description  Diameter | Product  OLY ROPE CARBO 6  Packaging  10 m roll  Description  Stranded wire made of high strength  Diameter  6 mm |

| Sp                     |              |   |   |
|------------------------|--------------|---|---|
| Unidirectional strands | Article code | ROPIOC                                    | ROP12C                                    |
| ectiona                | Product      | OLY ROPE CARBO 10                         | OLY ROPE CARBO 12                         |
| Unidire                | Packaging    | 10 m roll                                 | 10 m roll                                 |
|                        | Description  | Stranded wire<br>made of<br>high strength | Stranded wire<br>made of<br>high strength |
|                        | Diameter     | 10 mm                                     | 12 mm                                     |
|                        | Fiber        | Carbon                                    | Carbon                                    |



# OLY ROPE ARAMIDE 6-8-10-12

OLY ROPE ARAMIDE is an FRP structural reinforcement element compliant with CNR DT 200 RI/2013 with a circular section made up of mono-directional aramid filaments that are put together to form a "strand"; it is widely used in the consolidation of building structures, both new and historic-monumental, for the realization of reinforced nails, chains, intrados reinforcement of vaults, intrados reinforcement intradossale of vaults, reinforcement of masonry or anchorage on masonry. Available in diameters 6-8-10-12 mm.

| Sp                     |              |   |   |
|------------------------|--------------|---|---|
| Unidirectional strands | Article code | ROPO6A  | ROP08A  |
|                        | Product      | OLY ROPE ARAMIDE 6                                  | OLY ROPE ARAMIDE 8                                  |
|                        | Packaging    | 10 m roll   | 10 m roll   |
|                        | Description  | Stranded fiber of high elastic modulus aramid fiber | Stranded fiber of high elastic modulus aramid fiber |
|                        | Diameter     | 6 mm  | 8 mm  |
|                        | Fiber        | Aramid  | Aramid  |

| SD                     |              |   |   |
|------------------------|--------------|---|---|
| Unidirectional strands | Article code | ROPIOA  | ROP12A  |
|                        | Product      | OLY ROPE ARAMIDE 10                                 | OLY ROPE ARAMIDE 12                                 |
|                        | Packaging    | 10 m roll   | 10 m roll   |
|                        | Description  | Stranded fiber of high elastic modulus aramid fiber | Stranded fiber of high elastic modulus aramid fiber |
|                        | Diameter     | 10 mm   | 12 mm   |
|                        | Fiber        | Aramid  | Aramid  |

# OLY ROPE GLASS 6-8-10-12

OLY ROPE GLASS is a structural element with circular section in glass fiber, in compliance with CNR DT 200 RI/2013, consisting of mono-directional filaments which are put together to form a "strand"; it is widely used in the consolidation of both consolidation of building structures, both new and historical-monumental, for the realization of reinforced nails, chains, intrados reinforcement of vaults, reinforcement of masonry or anchorages on masonry. The strand is available in diameters 6-8-10-12.



| Unidirectional strands |              |                                      |                                      |
|------------------------|--------------|--------------------------------------|--------------------------------------|
|                        | Article code | ROP06G                               | ROP08G                               |
|                        | Product      | OLY ROPE GLASS 6                     | OLY ROPE GLASS 8                     |
|                        | Packaging    | 10 m roll                            | 10 m roll                            |
|                        | Description  | Fiber stranded<br>high<br>resistance | Fiber stranded<br>high<br>resistance |
|                        | Diameter     | 6 mm                                 | 8 mm                                 |
|                        | Fiber        | Glass                                | Glass                                |

| Unidirectional strands |              |                                      |                                      |
|------------------------|--------------|--------------------------------------|--------------------------------------|
|                        | Article code | ROPIOG                               | ROP12G                               |
|                        | Product      | OLY ROPE GLASS 10                    | OLY ROPE GLASS 12                    |
|                        | Packaging    | 10 m roll                            | 10 m roll                            |
|                        | Description  | Fiber stranded<br>high<br>resistance | Fiber stranded<br>high<br>resistance |
|                        | Diameter     | 10 mm                                | 12 mm                                |
|                        | Fiber        | Glass                                | Glass                                |



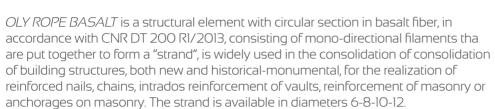
# OLY ROPE STEEL 8-10-12

OLY ROPE STEEL is a structural element with circular section in steel fiber, conforming to CNR DT 200 RI/2013, consisting of mono-directional filaments that are put together form a "strand", is widely used in the consolidation of consolidation of building structures, both new and historical-monumental, for the realization of reinforced nails, chains, intrados reinforcement of vaults, reinforcement of masonry or anchorages on masonry. The strand is available in diameters 8-10-12.

| Spu                    |              |                                 |                                 |
|------------------------|--------------|---------------------------------|---------------------------------|
| Unidirectional strands | Article code | ROP085                          | ROP10S                          |
|                        | Product      | OLY ROPE STEEL 8                | OLY ROPE STEEL 10               |
|                        | Packaging    | 10 m roll                       | 10 m roll                       |
|                        | Description  | Steel fiber stranded wire UHTSS | Steel fiber stranded wire UHTSS |
|                        | Diameter     | 8 mm                            | 10 mm                           |
|                        | Fiber        | Galvanized steel                | Galvanized steel                |
|                        |              |                                 |                                 |

| Sp                     |              |                                 |
|------------------------|--------------|---------------------------------|
| Unidirectional strands | Article code | ROP12S                          |
|                        | Product      | OLY ROPE STEEL 12               |
|                        | Packaging    | 10 m roll                       |
|                        | Description  | Steel fiber stranded wire UHTSS |
|                        | Diameter     | 12 mm                           |
|                        | Fiber        | Galvanized steel                |
|                        |              |                                 |

# OLY ROPE BASALT 6-8-10-12





| SD            |              |  |  |
|---------------|--------------|--|--|
| nal strands   | Article code | ROP06B                                   | ROР08В                                   |
| ctiona        | Product      | OLY ROPE BASALT 6                        | OLY ROPE BASALT 8                        |
| Unidirectiona | Packaging    | 10 m roll                                | 10 m roll                                |
|               | Description  | Basalt fiber stranded wire high strength | Basalt fiber stranded wire high strength |
|               | Diameter     | 6 mm                                     | 8 mm                                     |
|               | Fiber        | Basalt                                   | Basalt                                   |

| rticle code | ROP10B                                   | ROP12B   |
|-------------|--|--|
| roduct      | OLY ROPE BASALT 10                       | OLY ROPE BASALT 12   |
| ackaging    | 10 m roll                                | 10 m roll  |
| escription  | Basalt fiber stranded wire high strength | Basalt fiber stranded wire high strength                                       |
| iameter     | 10 mm                                    | 12 mm  |
| ber         | Basalt                                   | Basalt   |
| i           | ackaging<br>escription                   | OLY ROPE BASALT 10  10 m roll  Basalt fiber stranded wire high strength  10 mm |

### Pultruse bars



# OLY ROD CARBO 6-8-10-12-15-20

*OLY ROD CARBO* is a pultruded carbon fiber structural element pre-impregnated with epoxy resin with full circular section in accordance with CNR DT 200 R1/2013; rounds are available in diameters 6-8-10-12-15-20 mm.

| Article code | RODO6C                                    | ROD08C  |
|--------------|---|---|
| Product      | OLY ROD CARBO 6                           | OLY ROD CARBO 8   |
| Packaging    | 2 m bars                                  | 2 m bars  |
| Description  | Pultruded bar with improved adhesion      | Pultruded bar with improved adhesion  |
| Diameter     | 6 mm                                      | 8 mm  |
| Fiber        | Carbon                                    | Carbon  |
|              | Product  Packaging  Description  Diameter | Product  OLY ROD CARBO 6  Packaging  2 m bars  Pultruded bar with improved adhesion  Diameter  6 mm |

| ars           |              |                                      |                                      |
|---------------|--------------|--------------------------------------|--------------------------------------|
| Pultruse bars | Article code | RODIOC                               | RODI2C                               |
|               | Product      | OLY ROD CARBO 10                     | OLY ROD CARBO 12                     |
|               | Packaging    | 2 m bars                             | 2 m bars                             |
|               | Description  | Pultruded bar with improved adhesion | Pultruded bar with improved adhesion |
|               | Diameter     | 10 mm                                | 12 mm                                |
|               | Fiber        | Carbon                               | Carbon                               |

### Pultruse bars

| ars           |              |                                      |                                      |
|---------------|--------------|--------------------------------------|--------------------------------------|
| Pultruse bars | Article code | ROD15C                               | ROD20C                               |
|               | Product      | OLY ROD CARBO 15                     | OLY ROD CARBO 20                     |
|               | Packaging    | 2 m bars                             | 2 m bars                             |
|               | Description  | Pultruded bar with improved adhesion | Pultruded bar with improved adhesion |
|               | Diameter     | 15 mm                                | 20 mm                                |
|               | Fiber        | Carbon                               | Carbon                               |



## **OLY ROD ARAMIDE 10**

*OLY ROD ARAMIDE* is a pultruded structural element in aramid fiber pre-impregnated with epoxy resin with a full circular section compliant with CNR DT 200 RI / 2013; the diameter of the rounds is 10 mm.

| Article code | RODIOA                               |
|--------------|--------------------------------------|
| Product      | OLY ROD ARAMIDE 10                   |
| Packaging    | 2 m bars                             |
| Description  | Pultruded bar with improved adhesion |
| Diameter     | 10 mm                                |
| Fiber        | Aramid                               |



# OLY ROD GLASS 6-10-16-20

*OLY ROD GLASS* is a pultruded structural element made of fiberglass preimpregnated with epoxy resin with full circular section in accordance with the CNR DT 200 RI/2013; the rounds are available in diameters 6-10-16-20 mm.



| use bars |              |                                      |                                      |
|----------|--------------|--------------------------------------|--------------------------------------|
|          | Article code | RODO6G                               | ROD10G                               |
| Pultruse | Product      | OLY ROD GLASS 6                      | OLY ROD GLASS 10                     |
|          | Packaging    | 2 m bars                             | 2 m bars                             |
|          | Description  | Pultruded bar with improved adhesion | Pultruded bar with improved adhesion |
|          | Diameter     | 6 mm                                 | 10 mm                                |
|          | Fiber        | Glass                                | Glass                                |

| bars        |              |                                      |                                      |
|-------------|--------------|--------------------------------------|--------------------------------------|
| Pultruse ba | Article code | ROD16G                               | ROD20G                               |
|             | Product      | OLY ROD GLASS 16                     | OLY ROD GLASS 20                     |
|             | Packaging    | 2 m bars                             | 2 m bars                             |
|             | Description  | Pultruded bar with improved adhesion | Pultruded bar with improved adhesion |
|             | Diameter     | 16 mm                                | 20 mm                                |
|             | Fiber        | Glass                                | Glass                                |
|             |              |                                      |                                      |

### **OLY FER**

OLY FER is a single-component anti-corrosive hydraulic mortar for reinforcing bars. of reinforcement. It has a strong adhesion to concrete and iron, high alkalinity, excellent impermeability to water and impermeability to water and harmful atmospheric gases. The rapid setting of the product considerably simplifies the laying times in the restoration of reinforced concrete structures with visible reinforcement.





### **OLY GROUT F3**

OLY GROUT F3 is a structural cementitious plaster for interiors and exteriors. with high resistance. Suitable for anti-seismic structural reinforcement interventions with the technique of reinforced plaster in combination with GFRP nets, in renovations or restorations. Resistance class M30.

### **OLY GROUT T3**

OLY GROUT T3 is a ready-to-use thixotropic anti-shrinkage hydraulic mortar with added synthetic fibers and with synthetic fibers and corrosion inhibitors. It has high mechanical resistance to both short and long seasoning, strong adhesion to concrete, high resistance to sulfates and sulphates and excellent durability even in very aggressive conditions (marine areas, deicing salts, acid rain, etc.). thawing salts, acid rain). It does not contain metal particles and is chloride-free.



GR3OT3

**OLY GROUT T3** 

Thixotropic mortar fiberreinforced with controlled shrinkage controlled shrinkage class R3 Restoration of

Sacks 25 kg Pallets 1600 kg

| fortars for structural recovery and restoration | Article code | GOOFER   | GR30F3  |
|---|--------------|--|---|
| y and resto                                     | Product      | OLY FER  | OLY GROUT F3  |
| covery and                                      | Packaging    | Can 5 kg   | Sacks 25 kg<br>Pallets 1600 kg  |
| ructural reco                                   | Description  | Passivating Powder   | Fiber-reinforced structural fiber-reinforced class M30                        |
| dortars for structu                             | Use          | Protection of reinforced of reinforcement in reinforced concrete | Interior and exterior plasters also with CRM systems Protection of reinforced |

1,7 kg/mq/mm

Performance

works in concrete

15 kg/mq/cm

15 kg/mq/cm



### **OLY GROUT T4**

OLY GROUT T4 is a ready-to-use thixotropic anti-shrinkage hydraulic mortar with added synthetic fibers and corrosion inhibitors. with synthetic fibers and corrosion inhibitors. It has a high mechanical resistance both short and long curing, strong adhesion to concrete, high resistance to sulfates and excellent durability. to sulfates and excellent durability even in very aggressive conditions (marine areas, de-icing salts, acid rain). It does not contain metal particles and is chloride-free.

### **OLY GROUT MX**

OLY GROUT MX is a guick-setting thixotropic repair mortar with controlled shrinkage. suitable for the restoration of damaged concrete and as an inorganic matrix for the application of inorganic matrix for the application of FRCM systems with carbon fiber structural meshes, glass fiber, basalt fiber.





### **OLY GROUT COLABILE**

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OLY GROUT COLABILE is an anti-shrinkage cementitious concrete, enriched with corrosion inhibitors. corrosion inhibitors, fiber-reinforced, pourable consistency, with high mechanical resistance to short and long seasoning and high resistance to sulfates.

| OU                                |              |   |  |  |
|-----------------------------------|--------------|---|--|--|
| ery and restoration               | Article code | GR45T4  | GROOMX   | GROOCL   |
|                                   | Product      | OLY GROUT T4  | OLY GROUT MX   | OLY GROUT<br>COLABILE                                      |
| Mortars for structural recovery a | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   | Sacks 25 kg<br>Pallets 1600 kg                             |
|                                   | Description  | Thixotropic mortar fiber-reinforced with controlled shrinkage controlled shrinkage class R4 | Thixotropic mortar fiber-reinforced with controlled and rapid hardening class R4 | Pourable mortar fiber-reinforced with controlled shrinkage |
|                                   | Use          | Restoration of works in concrete  | Restoration of works in concrete   | Restoration of works in concrete                           |
| Š                                 | Performance  | 18 kg/mq/cm   | 19 kg/mq/cm  | 19 kg/mq/cm  |

### OLY GROUT MONO N

OLY GROUT MONO N is a ready-to-use, non-shrinking, normal setting mortar, thixotropic, with the addition of synthetic fibres. It has high mechanical resistance short and long seasoning, strong adhesion to concrete, high resistance to sulphates and excellent to sulphates and excellent durability even in very aggressive conditions (marine areas, thawing salts, acid rain). It is CE marked as R4 on the basis of UNI EN 1504-3 and for reinforcement iron protection systems (according to 1504-7). Among the advantages it is highly performing (final mechanical development required for R4 mortars within the within the first 7 days); it constitutes a 3-in-1 system (it passivates the reinforcements, restores and shaves the at the same time allowing the intervention to be completed in one working day and with a one single pass); it is versatile, as it is suitable for both structural (cortical) and non-structural (shaving) restorations. non-structural (shaving); it is easy to apply given its excellent workability and ease of application (manual or mechanized). application (manual or mechanized).





### OLY GROUT MONO R

OLY GROUT MONO R is a ready-to-use, non-shrinking, normal-setting mortar, thixotropic, with the addition of synthetic fibers. It has a high mechanical resistance short and long curing, strong adhesion to concrete, high resistance to sulfates and excellent to sulphates and excellent durability even in very aggressive conditions (marine areas, de-icing salts, rain, etc.).

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| טרטן מנוך                             | Article code | GROOMN  | GROOMR   |
| )                                     | Product      | OLY GROUT MONO N  | OLY GROUT MONO R   |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Packaging    | Sacks 25 kg<br>Pallets 1600 kg                                      | Sacks 25 kg<br>Pallets 1600 kg                                     |
| שנו מכנמו מו וכי                      | Description  | Thixotropic mortar fibre-reinforced, normal setting high resistance | Thixotropic mortar fiber-reinforced, quick-setting high resistance |
|                                       | Use          | Thixotropic mortar fiber-reinforced, quick-setting high resistance  | Cortical recovery of concrete and iron protection                  |
|                                       | Performance  | 17 kg/mq/cm   | 17 kg/mq/cm  |
|                                       |              |   |  |

### **OLY WALL STRUKTURA-F**

OLY WALL STRUKTURA-F is a ready-to-use mortar based on natural hydraulic lime, CE marked in compliance with the requirements of UNI EN 998-1/2 and/or UNI EN 1504-3 with the 2+ certification system for masonry mortar, fiber-reinforced, tested for the nonemission of gamma/radon radiations; it uses entirely recyclable natural materials, fired at low temperatures. recyclable, baked at low temperatures reducing emissions and energy consumption.





### **OLY WALL STRUKTURA**

OLY WALL STRUKTURA is a ready-to-use mortar based on natural, fiber-reinforced hydraulic lime. natural hydraulic lime, fiber-reinforced, using natural materials entirely recyclable, baked at low temperatures low temperatures reducing emissions and energy consumption; it is free from Chromium VI; it uses traditional materials, with a low content of soluble salts; in contact with water forms hydrated products very little soluble and very stable basic nature, high breathability, reduced transpirability; reduced hydraulic shrinkage.

### OLY WALL I

OLY WALL-I is an injection mix with high resistance to sulphates and low watersoluble salts. content of water-soluble salts, based on natural NHL hydraulic lime with the addition of natural addition of natural pozzolan and carbonate filler, specifically formulated to regenerate and consolidate, through injection, masonry and sack foundations in brick or in cut stone.



| OU                         |              |   |  |  |
|----------------------------|--------------|---|--|--|
| storati                    | Article code | WA15SF  | WA15ST   | WA15SIN  |
| and restoration            | Product      | OLY WALL<br>STRUKTURA-F   | OLY WALL<br>STRUKTURA  | OLY WALL I   |
| recovery                   | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   | Sacks 25 kg<br>Pallets 1600 kg   |
| Mortars for structural rec | Description  | Structural mortar<br>based on natural hydraulic<br>lime natural NHL 3,5<br>fine-grained | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 |
|                            | Use          | FRCM systems and structural smoothing   | CRM Systems<br>and structural plasters                                     | Injections and grouting in masonry   |
|                            | Performance  | 16 kg/mq/cm   | 15 kg/mq/cm  | 1,5 kg/dmc   |

### Accessories



### **OLY ROLL**

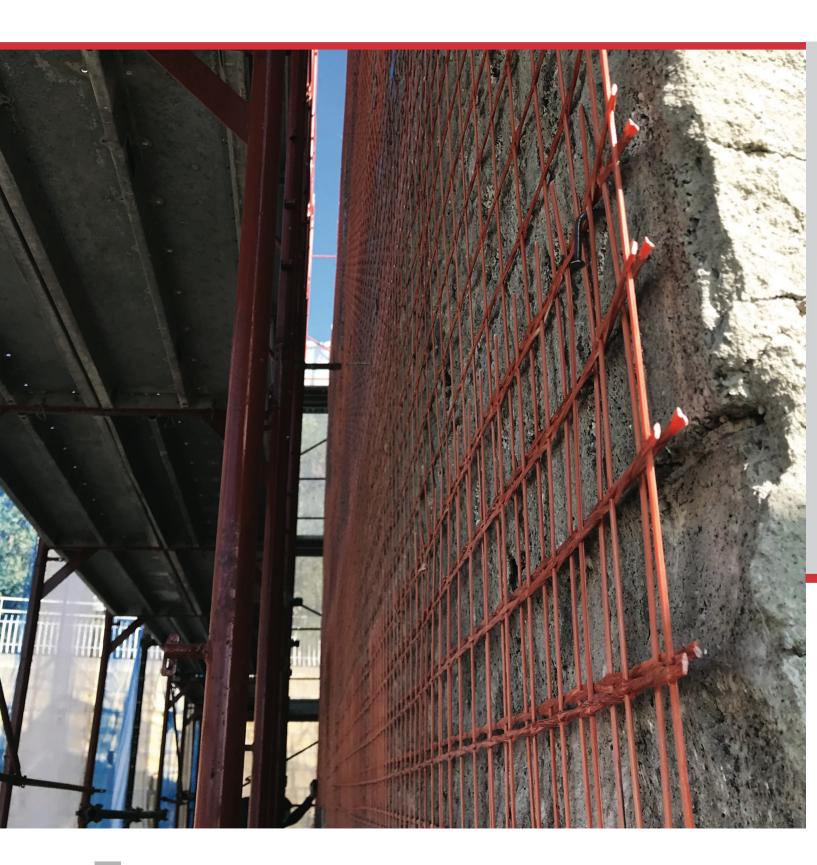
Aluminum roller with 20 cm width for the lamination of FRP systems.

# **OLYMPUS CUFFLINKS**

Carbon fiber cufflinks.

| Accessiories |              |                           |                                |
|--------------|--------------|---------------------------|--------------------------------|
|              | Article code | FRPROL                    | OLYGEM                         |
|              | Product      | OLY ROLL                  | CUFFLINKS<br>OLYMPUS           |
|              | Packaging    | 1 pcs                     | 1 pcs                          |
|              | Description  | Aluminum roller<br>20 cm  | Cufflinks made of carbon fiber |
|              | Use          | Lamination of FRP systems | Gadget and accessories         |





# **OLYMPUS STONE**

# STRUCTURAL REINFORCEMENT OF WALLS WITH FRCM AND CRM SYSTEMS

The historical and artistic heritage of our country is represented by numerous masonry structures, both as regards private buildings and for structures of monumental interest. There are numerous structures that require structural consolidation and there are many seismic events that have caused damage to buildings, making recovery interventions necessary.

In order to guarantee an adequate performance level to masonry structures, OLYMPUS proposes the new **Olympus STONE** system which, through the use of fiberglass nets, preformed in GFRP, allows the increase of the mechanical characteristics of the wall elements.

The consolidation systems obtained through the installation of fiberglass nets of the **OLY STONE** line, allow you to easily remedy situations of structural deficit affecting vertical structures, allowing, unlike interventions made with traditional materials, reduced invasiveness and high durability over time.



#### The line of solutions









# Olympus STONE reinforced plaster CRM

#### Structural reinforcement of masonry with CRM reinforced plaster systems

RM (Composite Reinforced Mortar) plaster systems represent the evolution of CRM. Reinforced Mortar represent the modern evolution of the traditional intervention of plaster reinforced. In the past decades, in fact, has spread the technique of reinforcement of structures in masonry structures through reinforced plasters made with concrete, often cement, reinforced with networks welded steel mesh. This technique, over the years, has shown its limits and has often proved to be also harmful for the pre-existing structure.

The CRM reinforced plaster systems of the **OLYMPUS STONE** comply with the specifications of the CSLLPP Guidelines "Guidelines for the identification, qualification and control of acceptance of preformed mesh systems in fiber-reinforced composite materials with polymeric matrix to be used for the structural consolidation of existing constructions with the plaster technique reinforced CRM (Composite Reinforced Mortar)."



With the new CRM reinforced plaster systems of the Olympus STONE line it is possible to carry out interventions that are compatible with the masonry and do not present particular criticalities. Per definition a CRM system has a thickness between 30 and 50 mm net of the possible leveling of the support.

CRM reinforced plaster reinforcement systems of the Olympus STONE line consist of:

- Preformed fiberglass nets 33×33 40×40 66×66 80×80 99×99, made by impregnation of alkali-resistant fiberglass. The nets have the function to provide an increase in tensile strength and confinement of the elements to be reinforcement;
- Glass fiber preformed mesh corner pieces, made with the same materials and production process production process of the nets, with the function of creating a structural continuity in correspondence corners;
- · Preformed glass fiber connection elements, alkali resistant and made with the same materials, with the function of creating a structural continuity at the corners. with the same materials, with the function of ensuring the connection of the reinforced plaster with the masonry element and with the reinforcement installed on the opposite face of the latter, where expected;
- Cementitious or lime-based mortars of guaranteed performance for structural use;
- Chemical anchors for the solidarization of the connectors with each other or the anchorage of the same in the wall support.

The CRM systems of the OLYMPUS STONE line comply with to the *Guideline for the identification*, *qualification and acceptance control of preformed mesh systems made of polymeric matrix fiber-reinforced composite materials to be used for the structural consolidation of existing buildings with the technique of reinforced plaster CRM (Composite Reinforced Mortar)*, issued by the Service Central Technical Service of the Superior Council of Works Public Works in May 2019.

All systems have been tested at laboratories accredited by the Ministry of Infrastructure and Transport for their mechanical performance and durability.

The structural mortars used for the realization of reinforced plasters are also CE marked in accordance with the Community Norms of reference.

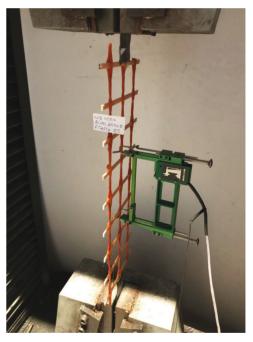


#### Possible uses

The composite materials of the Reinforced Plaster line CRM Olympus STONE can be used in the interventions of structural consolidation of existing buildings.

Thanks to the mechanical, physical and chemical properties of the systems, they are particularly indicated for the structural reinforcement of load-bearing masonry.

They can be used in seismic upgrades and improvements seismic upgrades and improvements or in local repair interventions remedy situations of structural deficit.



### The Olympus STONE CRM line of solutions

**Preformed Mesh**Oly Mesh

Connection
Systems
Oly Rod

**Resins** Oly Resin

Structural
Mortars
Oly Wall, Oly Grout



### **OLY MESH GLASS 33×33**

OLY MESH GLASS CRM CORNER 33X33 is a preformed rigid corner piece bidirectional AR alass fiber with anti-alkaline treatment mesh 33×33 mm. suitable for the connection of for the connection of the OLY MESH GLASS CRM line nets in the presence of intersections of masonry.





### OLY MESH GLASS 40×40

OLY MESH GLASS CRM 40 is a preformed structural mesh made of AR glass fiber, suitable for the structural reinforcement and consolidation of masonry by means of CRM systems of reinforced plaster embedded in OLY WALL STRUKTURA mortar.

### OLY MESH GLASS 66×66 W

OLY MESH GLASS CRM 66×66 W W is a preformed structural mesh in AR glass fiber, suitable for structural reinforcement and consolidation of masonry using CRM systems systems of reinforced plaster embedded in OLY WALL STRUKTURA and OLY GROUT T4/F3 mortar.



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| Inets for reinforced plasters |
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| Article code | GL33MS   | GL40MS   | GL66WMS  |
|--------------|--|--|--|
| Product      | OLY MESH<br>GLASS 33x33  | OLY MESH<br>GLASS 40x40  | OLY MESH<br>GLASS 66x66 W  |
| Packaging    | Roll 2x25 m  | Roll 2x20 m  | Roll 2x25 m  |
| Description  | Monolithic mesh preformed fiberglass AR glass fiber with matrix 920 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 980 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 760 g/sqm epoxy matrix |
| Use          | CRM Reinforced Plaster   | CRM Reinforced Plaster   | CRM Reinforced Plaster   |
| Mesh         | 33 x 33 mm   | 40 x 40 mm   | 66 x 66 mm   |

#### Preformed nets for reinforced plasters CRM



### OLY MESH GLASS 66×66 L

OLY MESH GLASS CRM 66×66 L is a preformed structural mesh made of AR glass fiber, suitable for AR glass fiber, suitable for structural reinforcement and consolidation of masonry through CRM systems of reinforced CRM systems of reinforced plaster embedded in mortar OLY WALL STRUKTURA and OLY GROUT T4/F3.

### **OLY MESH GLASS 80×80**

OLY MESH GLASS CRM 80×80 L is a preformed structural mesh made of AR glass fiber, suitable for AR glass fiber, suitable for structural reinforcement and consolidation of masonry by means of CRM systems of reinforced plaster embedded in mortar OLY WALL STRUKTURA and OLY GROUT T4/F3.





## OLY MESH GLASS 99×99

OLY MESH GLASS CRM 99×99 L is a preformed structural mesh made of AR glass fiber, suitable for AR glass fiber, suitable for structural reinforcement and consolidation of masonry through CRM systems of reinforced CRM systems of reinforced plaster embedded in mortar OLY WALL STRUKTURA and OLY GROUT T4/F3.

| plasters                        |  |
|---------------------------------|--|
| med nets for reinforced plaster |  |
| nets for                        |  |
| eformed                         |  |

| $\geq$            |              |  |  |   |
|-------------------|--------------|--|--|---|
| $\overline{\cup}$ | Article code | GL66LMS  | GL80MS   | GL99MS  |
| d plasters        | Product      | OLY MESH<br>GLASS 66x66 L  | OLY MESH<br>GLASS 80x80  | OLY MESH<br>GLASS 99x99   |
| reinforced        | Packaging    | Roll 2x25 m  | Roll 2x20 m  | Roll 2x25 m   |
| nets for          | Description  | Monolithic mesh preformed fiberglass AR glass fiber with matrix 465 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 490 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 3000 g/sqm epoxy matrix |
| med               | Use          | CRM Reinforced Plaster   | CRM Reinforced Plaster   | CRM Reinforced Plaster  |
| Preformed         | Mesh         | 66 x 66 mm   | 80 x 80 mm   | 99 x 99 mm  |

### OLY ROD GLASS L

OLY ROD GLASS L is a preformed L-shaped connector, made of GFRP glass fiber with 7 mm diameter and variable length depending on the thickness of the masonry to reinforce. The short side has a length of 10 cm, while the long side is available in the following lengths 10 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - 100 cm with improved adherence surface. The connector is suitable for the structural reinforcement of masonry, arches and vaults and suitable for the seismic upgrading of structures located in areas at risk. Among the advantages there are ease of installation, very low purchase costs and suitability to any type of masonry.



| 2          |              |  |  |   |
|------------|--------------|--|--|---|
| connectors | Article code | RODIOGL  | ROD20GL  | ROD30GL   |
| S          | Product      | OLY ROD<br>GLASS L 10  | OLY ROD<br>GLASS L 20  | OLY ROD<br>GLASS L 30   |
| glass      | Packaging    | 100 pcs  | 100 pcs  | 100 pcs   |
| Fiberglas  | Description  | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm | Preformed connector<br>L-shaped connector in<br>glass fiber with improved<br>adherence. Diameter 7 mm |
|            | Use          | Connections in reinforced masonry with CRM systems   | Connections in reinforced masonry with CRM systems   | Connections in reinforced masonry with CRM systems  |
|            | Dimension    | 10 + 10 cm   | 10 +20 cm  | 10 + 30 cm  |

| Ors         |              |  |  |
|-------------|--------------|--|--|
| -connectors | Article code | ROD40GL  | ROD50GL  |
|             | Product      | OLY ROD<br>GLASS L 40  | OLY ROD<br>GLASS L 50  |
| -iberglass  | Packaging    | 100 pcs  | 100 pcs  |
| Fibe        | Description  | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm |
|             | Use          | Connections in reinforced masonry with CRM systems   | Connections in reinforced masonry with CRM systems   |
|             | Dimension    | 10 + 40 cm   | 10 + 50 cm   |

### Fiberglass L-connectors

| Ors          |              |  |  |   |
|--------------|--------------|--|--|---|
| nnectors     | Article code | ROD60GL  | ROD70GL  | ROD80GL   |
| glass L-conr | Product      | OLY ROD<br>GLASS L 60  | OLY ROD<br>GLASS L 70  | OLY ROD<br>GLASS L 80   |
| Fiberglass L | Packaging    | 100 pcs  | 100 pcs  | 100 pcs   |
| Fiber        | Description  | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm | Preformed connector<br>L-shaped connector in<br>glass fiber with improved<br>adherence. Diameter 7 mm |
|              | Use          | Connections in reinforced masonry with CRM systems   | Connections in reinforced masonry with CRM systems   | Connections in reinforced masonry with CRM systems  |
|              | Dimension    | 10 + 60 cm   | 10 + 70 cm   | 10 + 80 cm  |

| ILS            |              |   |  |
|----------------|--------------|---|--|
| s L-connectors | Article code | ROD90GL   | RODIOOGL   |
|                | Product      | OLY ROD<br>GLASS L 90   | OLY ROD<br>GLASS L 100   |
| -iberglass     | Packaging    | 100 pcs   | 100 pcs  |
| Fibe           | Description  | Preformed connector<br>L-shaped connector in<br>glass fiber with improved<br>adherence. Diameter 7 mm | Preformed connector L-shaped connector in glass fiber with improved adherence. Diameter 7 mm |
|                | Use          | Connections in reinforced masonry with CRM systems  | Connections in reinforced masonry with CRM systems   |
|                | Dimension    | 10 + 90 cm  | 10 + 100 cm  |

# OLY MESH GLASS CRM CORNER

*OLY MESH GLASS CRM CORNER* is a rigid preformed bidirectional AR fiberglass corner piece in AR glass fiber with anti-alkaline treatment, suitable for the connection of the line OLY MESH GLASS CRM line in presence of masonry crossings. The angles are available in the mesh sizes 33x33 mm, 66x66 mm, 80x80 mm and 99x99 mm.



| <u> 1</u> 68     |              |   |   |
|------------------|--------------|---|---|
| er pieces        | Article code | GL33AN  | GL66AN  |
| s corner         | Product      | OLY MESH CORNER<br>GLASS 33-33                    | OLY MESH CORNER<br>GLASS 66-66                    |
| fiberglass       | Packaging    | 2m Bars   | 2m Bars   |
| Preformed fiberg | Description  | Preformed corner in glass fiber. Sides 30 + 30 cm | Preformed corner in glass fiber. Sides 30 + 30 cm |
| Prefc            | Use          | Corner reinforcement in CRM systems               | Corner reinforcement in CRM systems               |
|                  | Mesh         | 33 x 33 mm  | 66 x 66 mm  |

| <u> 1</u> 68   |              |   |   |
|----------------|--------------|---|---|
| er pieces      | Article code | GL80AN  | GL99AN  |
| s corner       | Product      | OLY MESH CORNER<br>GLASS 80-80                    | OLY MESH CORNER<br>GLASS 99-99                    |
| fiberglass     | Packaging    | 2m Bars   | 2m Bars   |
| Preformed fibe | Description  | Preformed corner in glass fiber. Sides 30 + 30 cm | Preformed corner in glass fiber. Sides 30 + 30 cm |
| Pref           | Use          | Corner reinforcement in CRM systems               | Corner reinforcement in CRM systems               |
|                | Mesh         | 80 x 80 mm  | 99 x 99 mm  |

### Breakdown tissues



# OLY MESH CONNECT

OLY MESH CONNECT is a load distribution patchwork for CRM systems to be used for load distribution at the connectors.

The handkerchiefs are available in 33x33 mm, 40x40 mm and 66x66 mm.

| es                |              |   |   |
|-------------------|--------------|---|---|
| 3reakdown tissues | Article code | GL33FZ  | GL30FZ  |
|                   | Product      | OLY MESH<br>CONNECT 33X33                       | OLY MESH<br>CONNECT 40x40                       |
| Brea              | Packaging    | 100 pcs   | 100 pcs   |
|                   | Description  | Breakdown handkerchief for CRM systems          | Breakdown handkerchief for CRM systems          |
|                   | Use          | Load distribution for connectors of CRM systems | Load distribution for connectors of CRM systems |
|                   | Mesh         | 33 x 33 mm                                      | 40 x 40 mm                                      |

| es                |              |   |
|-------------------|--------------|---|
| ı tissu           | Article code | GL66FZ  |
| 3reakdown tissues | Product      | OLY MESH<br>CONNECT 66X66                       |
| Brea              | Packaging    | 100 pcs   |
|                   | Description  | Breakdown handkerchief for CRM systems          |
|                   | Use          | Load distribution for connectors of CRM systems |
|                   | Mesh         | 66 x 66 mm                                      |

### Grouting resins

### **OLY RESIN I**

OLY RESIN I is a styrene-free, two-component polyester resin for medium and light loads. for fixing in concrete, solid masonry and perforated bricks. The resin, thanks to its high value of adhesion and ease of penetration in porosity and hollow areas, enables secure fastening without expansion and therefore without tension in the base material. Mix ratio I (hardener) to IO (polyester resin). Resin and hardener are only mixed during The resin and the hardener are mixed only during extrusion by passing the product through the mixer. It does not require pre-mixing. The cartridge can be reused at subsequent times by replacing the mixer at the time of reuse.





### GUN FOR OLY RESIN I

Single cartridge gun.

### **OLY RESIN EPO-I**

OLY RESIN EPO-I (A+B) is a two-component fluid epoxy resin, free from solvents, solvent-free, specifically designed for the bonding of iron, steel, carbon, glass, aramid bars, glass, aramid. It is supplied in two pre-dosed packages (A resin + B hardener). OLY RESIN EPO-I (A+B) is CE marked as structural bonding according to EN 1504-4. Its advantages include: high stability on vertical surfaces and ceilings; it can be applied even at low temperatures (up to + 5  $^{\circ}$ C).



| 5        |              |  |                        | <b>**</b>                               |
|----------|--------------|--|------------------------|---|
| ıg resii | Article code | RES-I  | PISOIR                 | RES10I                                  |
| Grouting | Product      | OLY RESIN I  | GUN FOR<br>OLY RESIN I | OLY RESIN<br>EPO-I                      |
|          | Packaging    | Cartridge 380 ml                                   | 1 pcs                  | Cartridge 600 g                         |
|          | Description  | Styrene-free polyester resin styrene in cartridges | Cartridge gun          | Two component epoxy resin in cartridges |
|          | Use          | Embedding of<br>L-connectors                       | With OLY RESIN I       | Embedding of<br>L-connectors            |
|          | Mesh         | 1 kg/dmc   | -                      | 1 kg/dmc                                |



### **GUN FOR OLY RESIN EPO-I**

Gun for double cartridge.





### **OLY RESIN 10**

*OLY RESIN 10 (A+B)* is a two-component thixotropic adhesive based on solvent-free epoxy resins without solvents, supplied in premeasured packages with resin/hardener ratio 1/1.

It has excellent adhesion to various substrates and does not undergo shrinkage in the hardening that occurs by chemical reaction without emission of volatile substances. OLY RESIN 10 (A+B) is CE marked as structural bonding according to EN 1504-4 and as anchorage of steel reinforcement according to EN 1504-6. The OLY RESIN 10 (A+B) is used for high-strength structural bonding of materials commonly used in construction such as concrete, bricks, stones, wood, metals, "Béton Plagué", structural reinforcement of vaults, masonry, reinforced concrete works through the use of composite systems. the use with composite systems of fabrics and foils of the OLYMPUS line and in the application of fabrics, where in addition to ensuring high adhesion to the support, it allows for optimal laying, eliminating the formation of dangerous air bubbles.

| Grouting resins |              |                            |                                  |
|-----------------|--------------|----------------------------|----------------------------------|
|                 | Article code | PISO2R                     | RES10                            |
|                 | Product      | GUN FOR<br>OLY RESIN EPO-I | OLY RESIN 10                     |
|                 | Packaging    | 1 pcs                      | Kg 20 (10+10)                    |
|                 | Description  | Cartridge gun              | Two component epoxy resin in tin |
|                 | Use          | With OLY RESIN EPO-I       | Embedding of<br>L-connectors     |
|                 | Mesh         | -                          | 1,5 kg/dmc                       |



### **OLY WALL STRUKTURA**

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OLY WALL STRUKTURA is a ready-to-use mortar based on natural hydraulic lime, fiberreinforced; it uses entirely recyclable natural materials, fired at low temperatures, reducing emissions and energy consumption. reducing emissions and energy consumption; it is free of Chromium VI; it uses traditional materials with a low tradition, with a low content of soluble salts; in contact with water it forms hydrated products very little soluble and very stable products of basic nature; high breathability; reduced hydraulic shrinkage.

### OLY WALL I

OLY WALL-I is an injection mix with high resistance to sulphates and low watersoluble salts. content of water-soluble salts based on NHL natural hydraulic lime with the addition of natural pozzolanic addition of natural pozzolan and carbonate filler, specially formulated to regenerate and , by injection, masonry and bagged foundations in brick or stone., by injection, masonry and bagged foundations in brick or stone cutting.



| OU                                |              |  |  |
|-----------------------------------|--------------|--|--|
| and restoration                   | Article code | WA15ST   | WA15SIN  |
|                                   | Product      | OLY WALL<br>STRUKTURA  | OLY WALL I   |
| Mortars for structural recovery a | Packaging    | Sacks 25 kg<br>Pallets 1600 kg   | Sacks 25 kg<br>Pallets 1600 kg   |
|                                   | Description  | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 |
|                                   | Use          | CRM Systems and structural plasters  | Iniezioni ed inghisaggi<br>in muratura                                     |
| Š                                 | Performance  | 15 kg/mq/cm  | 1,5 kg/dmc   |

### **OLY GROUT F3**

OLY GROUT F3 is a structural cementitious plaster for interior and exterior use with high resistance. Suitable for anti-seismic structural reinforcement interventions with the technique of reinforced plaster coupled with GFRP nets, in renovations or restorations.

Resistance class M30.





### **OLY GROUT T4**

OLY GROUT T4 is a ready to use thixotropic anti-shrinkage hydraulic mortar with added synthetic fibers and corrosion inhibitors. It has high mechanical resistance to both short and long seasoning, strong adhesion to concrete, high resistance to sulphates and excellent durability even in very aggressive conditions (marine areas, de-icing salts, acid rain). It does not contain metal particles and is chloride-free.

| OU                              |              |   |   |
|---------------------------------|--------------|---|---|
| and restoration                 | Article code | GR30F3  | GR45T4  |
|                                 | Product      | OLY GROUT F3  | OLY GROUT T4  |
| Mortars for structural recovery | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg  |
|                                 | Description  | Fiber-reinforced<br>structural fiber-reinforced<br>class M30                  | Thixotropic mortar fiber-reinforced with controlled shrinkage controlled shrinkage class R4 |
|                                 | Use          | Interior and exterior plasters also with CRM systems Protection of reinforced | Restoration of works in concrete  |
|                                 | Performance  | 15 kg/mq/cm   | 18 kg/mq/cm   |

# **Olympus STONE FRCM**

### Structural reinforcement of masonry with FRCM and CRM systems

Iympus STONE FRCM systems comply with the Guidelines of the Superior Council of Public Works. The FRCM systems are configured as kits as they are made up of several components which, during the application phase, are joined to form the FRCM system which will be used for structural consolidation. The system components are a fiber reinforcement (fabric or mesh) and an inorganic matrix based on natural hydraulic lime in addition to the possible presence of connectors.

By definition, an FRCM system has a thickness between 5 and 15 mm with fabrics or nets with a maximum mesh of 30 mm.

All Olympus STONE systems consist of:

- A fibrous component (e.g. steel fiber fabric or AR glass mesh)
- Inorganic matrix made up of structural mortar (e.g. lime-based)
- · Any connection devices



### The possible uses

The composite materials of the FRCM OLYMPUS-STONE line can be used in the structural consolidation of existing buildings.

Thanks to the mechanical, physical and chemical properties of the systems, they are

particularly suitable for the structural reinforcement of loadbearing walls.

It is possible to use them in adjustments and seismic improvements or in local repair interventions to remedy situations of structural deficit.



Solutions of structural consolidation OLYMPUS-STONE: CRM and FRCM systems



The FRCM systems of the OLYMPUS STONE line are conform to the *Guidelines* for identification qualification and acceptance control of fiber reinforced composites with inorganic matrix (FRCM) to be used for the structural consolidation of existing buildings issued by the Central Technical Service of the Superior Council of Public Works in December 2018.

OLYMPUS STONE FRCM systems have been tested in laboratories accredited by the Ministr of Infrastructure and Transport for their mechanical performance and durability, guaranteeing excellent adhesion qualities to tufa, brick and stone masonry supports as required by the Guidelines.

The structural mortars are also CE marked according to the according to the Community Standards of reference.







### The Olympus STONE FCRM line of solutions

**Preformed mesh**Oly Mesh



**Helicoidal bars** Oly Chain



**Resins**Oly Resin



**Structural mortars**Oly Wall





### OLY MESH BASALT & STEEL 200

OLY MESH BASALT&STEEL 200 is a biaxial and balanced structural mesh in basalt fiber and basalt fiber and stainless steel aisi 304 primed with a polyester based alkali resistant coating suitable for structural reinforcement and consolidation of reinforced concrete and masonry elements. Among the advantages it is quick and easy to apply, it is light, has a reduced thickness and is very easy to handle.

### OLY MESH BASALT & STEEL 400

OLY MESH BASALT&STEEL 400 is a biaxial and balanced structural mesh made of basalt fiber and basalt fiber and stainless steel aisi 304 primed with a polyester based alkali resistant coating suitable for structural reinforcement and consolidation of reinforced concrete and masonry elements. Among the advantages it is fast and easy to apply, it is light, has a reduced thickness and is very easy to handle.





### **OLY MESH GLASS 320**

OLY MESH GLASS 320 is a preformed structural mesh made of AR glass fiber (alkaline resistant, with at least 16% zirconium) leno woven and finished with PVA suitable for the structural reinforcement of reinforced concrete and masonry elements. Suitable for the anti-deflection of floors and for the anti-tilting of primary and secondary partitions.

| Its            |              |   |   |  |
|----------------|--------------|---|---|--|
| emer           | Article code | BS200MS   | BS400MS   | GL320MS  |
| reinforcements | Product      | OLY MESH<br>BASALT & STEEL 200                                      | OLY MESH<br>BASALT & STEEL 400                                      | OLY MESH<br>GLASS 320                            |
| $\geq$         | Packaging    | Rolls 1 x 50 m  | Rolls 1 x 50 m  | Rolls 1 x 50 m                                   |
| steel for FRC  | Description  | Preformed mesh in fiber of basalt and stainless steel from 240g/sqm | Preformed mesh in fiber of basalt and stainless steel from 420g/sqm | Preformed mesh<br>in glass fiber AR<br>320 g/sqm |
| and            | Use          | Reinforcement mesh in FRCM systems                                  | Reinforcement mesh in FRCM systems                                  | Reinforcement mesh in FRCM systems               |
| Meshes         | Mesh         | 20 x 20 mm  | 20 x 20 mm  | 20 x 20 mm                                       |

#### Meshes and steel for FRCM reinforcements

### **OLY STEEL 750 G SYSTEM**

OLY STEEL 750 G is a high resistance FRCM structural reinforcement system specific for the structural consolidation of masonry elements. The system is consisting of a unidirectional high strength steel fabric OLY STEEL 750 G and inorganic lime-based matrix OLY WALL STRUKTURA-F.





### **OLY STEEL 1200 G SYSTEM**

OLY STEEL 1200 G quarantees excellent tensile strength characteristics, makes it possible to easily remedy precarious situations affecting both vertical and vertical structures and horizons, allowing, unlike interventions made with traditional materials carried out with traditional materials, reduced invasiveness, as they allow to maintain almost unaltered the dimensions of the previous elements and the weight elements and the weight of the same and therefore of the entire structure.

## OLY STEEL 2000 G SYSTEM

OLY STEEL 2000 G guarantees excellent tensile strength characteristics, it allows to easily remedy precarious situations involving both vertical and both vertical structures and horizons, allowing, unlike interventions carried out with traditional materials, reduced invasiveness, as they allow you to maintain almost unaltered the dimensions of the previous elements and the weight elements and the weight of the same and therefore of the entire structure.



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| Article code        | SU750G   | SU1200G  | SU2000G  |
|---------------------|--|--|--|
| Product             | OLY STEEL<br>750 G                                       | OLY STEEL<br>1200 G                                      | OLY STEEL<br>2000 G                                      |
| Packaging           | L = 25 ml H = variable                                   | L = 25 ml H = variable                                   | L = 25 ml H = variable                                   |
| Description         | Unidirectional fabric<br>steel fiber galvanized<br>UHTSS | Unidirectional fabric<br>steel fiber galvanized<br>UHTSS | Unidirectional fabric<br>steel fiber galvanized<br>UHTSS |
| Weight              | 727 g/sqm  | 727 g/sqm  | 727 g/sqm  |
| Class of resistence | 200 GPa Module   | 200 GPa Module   | 200 GPa Module   |

### Stainless steel helical bars

### **OLY CHAIN 304**

*OLY CHAIN 304* is a cold-drawn AISI 304 stainless steel helical bar with high mechanical performance, suitable for reinforced joints and for one-sided or through connections one-sided or through connections on masonry, reinforced concrete, arches and vaults. Suitable for seismic upgrading of structures located in areas at risk. Available in diameters 6-8-10-12 mm.



| ars                          |                               |   |   |
|------------------------------|-------------------------------|---|---|
| Stainless steel helical bars | Article code                  | S304CH06  | S304CH08  |
|                              | Product                       | OLY CHAIN<br>304-6  | OLY CHAIN<br>304-8  |
| 355 St                       | Packaging                     | 10 m roll   | 10 m roll   |
| Stainle                      | Description                   | Helical bar in stainless steel stainless steel AISI 304   | Helical bar in stainless ste-<br>el stainless steel AISI 304  |
|                              | Use                           | Dry connections in masonry  | Dry connections in masonry  |
|                              | Diameter                      | 6 mm  | 8 mm  |
|                              |                               |   |   |
| oars                         |                               |   |   |
| ical bars                    | Article code                  | \$304CH10   | \$304CH12   |
| eel helical bars             | Article code  Product         | \$304CH10  OLY CHAIN 304-10   | \$304CH12  OLY CHAIN 304-12   |
| ess steel helical bars       |                               | OLY CHAIN   | OLY CHAIN   |
| Stainless steel helical bars | Product                       | OLY CHAIN<br>304-10   | OLY CHAIN<br>304-12   |
| Stainless steel helical bars | Product Packaging             | OLY CHAIN 304-10  10 m roll  Helical bar in stainless ste-  | OLY CHAIN 304-12  10 m roll  Helical bar in stainless ste-  |
| Stainless steel helical bars | Product Packaging Description | OLY CHAIN 304-10  10 m roll  Helical bar in stainless steel stainless steel AISI 304  Dry connections | OLY CHAIN 304-12  10 m roll  Helical bar in stainless steel stainless steel AISI 304  Dry connections |

#### Stainless steel helical bars



### **OLY CHAIN 316**

OLY CHAIN 316 is a cold-drawn AISI 316 stainless steel helical bar with high mechanical performance. suitable for reinforced joints and for one-side or through connections one-sided or through connections on masonry, reinforced concrete, arches and vaults. Suitable for seismic upgrading of structures located in areas at risk. Available in diameters 6-8-10-12 mm.

### CHUCK FOR OLY CHAIN

MANDRINO PER OLY CHAIN is a necessary element for the insertion of the of helical connectors in the supports. Diameter 8-10mm.

| ars                |              |   |   |   |
|--------------------|--------------|---|---|---|
| steel helical bars | Article code | S304CH12  | S316CH06  | S316CH08  |
| l hel              | Product      | OLY CHAIN 304-12  | OLY CHAIN 316-6   | OLY CHAIN 316-8   |
|                    | Packaging    | 10 m roll   | 10 m roll   | 10 m roll   |
| Stainless          | Description  | Helical bar in stainless steel stainless steel AISI 304 | Helical bar in stainless steel stainless steel AISI 316 | Helical bar in stainless steel stainless steel AISI 316 |
| U1                 | Use          | Dry connections in masonry                              | Dry connections in masonry                              | Dry connections in masonry                              |
|                    | Diameter     | 12 mm   | 6 mm  | 8 mm  |
|                    |              |   |   |   |
| ars                |              |   |   |   |
| ical b             | Article code | S316CH10  | S316CH12  | CHOOMAN   |
| steel helical bars | Product      | OLY CHAIN<br>316-10                                     | OLY CHAIN<br>316-12                                     | CHUCK FOR<br>OLY CHAIN 8-10                             |
|                    | Packaging    | 10 m roll   | 10 m roll   | 1 pz  |
| Stainless          | Description  | Barra elicoidale in acciaio inox AISI 316               | Barra elicoidale in acciaio inox AISI 316               | Mandrino con attacco<br>SDS per elettroutensili         |

| Article code | S316CH10                                     | S316CH12                                     | CHOOMAN   |
|--------------|--|--|---|
| Product      | OLY CHAIN<br>316-10                          | OLY CHAIN<br>316-12                          | CHUCK FOR<br>OLY CHAIN 8-10                     |
| Packaging    | 10 m roll                                    | 10 m roll                                    | 1 pz  |
| Description  | Barra elicoidale in acciaio<br>inox AISI 316 | Barra elicoidale in acciaio<br>inox AISI 316 | Mandrino con attacco<br>SDS per elettroutensili |
| Use          | Dry connections in masonry                   | Dry connections in masonry                   | Bar pusher for CHAIN connectors                 |
| Diameter     | 10 mm  | 12 mm  | 8-10 mm   |

### Grouting resins

### **OLY RESIN I**

OLY RESIN I is a two-component styrene-free polyester resin for medium and light loads for concrete, solid masonry and perforated brickwork light loads for fixing in concrete, solid masonry and perforated bricks. The resin, thanks to its high value of adhesion and ease of penetration in porosity and hollow areas, enables secure fastening without expansion and therefore without tension in the base material. Mix ratio 1 (hardener) to 10 (polyester resin). Resin and hardener are only mixed during The resin and the hardener are mixed only during extrusion by passing the product through the mixer. It does not require pre-mixing. The cartridge can be reused at subsequent times by replacing the mixer at the time of reuse.





### GUN FOR OLY RESIN I

Single cartridge gun.

### **OLY RESIN EPO-I**

OLY RESIN EPO-I (A+B) is a two-component fluid epoxy resin, solvent-free epoxy resin, specifically designed for the bonding of iron, steel, carbon, glass, aramid, etc, It is supplied in two pre-dosed packages (A resin + B hardener). OLYRESIN EPO-I (A+B) is CE marked as structural bonding according to EN 1504-4. Its advantages include: high stability on vertical surfaces and ceilings; it can be applied even at low temperatures (up to + 5 °C).



| NS              |              |  |                        |   |
|-----------------|--------------|--|------------------------|---|
| Grouting resina | Article code | RES-I  | PISOIR                 | RES10I                                  |
|                 | Product      | OLY RESIN I  | GUN FOR<br>OLY RESIN I | OLY RESIN<br>EPO-I                      |
|                 | Packaging    | Cartridge 380 ml                                   | 1 pcs                  | Cartridge 600 g                         |
|                 | Description  | Styrene-free polyester resin styrene in cartridges | Cartridge gun          | Two component epoxy resin in cartridges |
|                 | Use          | Embedding of<br>L-connectors                       | With OLY RESIN I       | Embedding of<br>L-connectors            |
|                 | Mesh         | l kg/dmc   | -                      | l kg/dmc                                |



### **GUN FOR OLY RESIN EPO-I**

Gun for double cartridge.





### **OLY RESIN 10**

OLY RESIN 10 (A+B)) is a two-component thixotropic adhesive based on solvent-free epoxy resins without solvents, supplied in premeasured packages with resin/hardener ratio 1/1.

It has excellent adhesion to various substrates and does not undergo shrinkage in the hardening that occurs by chemical reaction without emission of volatile substances. *OLY RESIN 10 (A+B)* is CE marked as structural bonding according to EN 1504-4 and as anchorage of steel reinforcement according to EN 1504-6. The *OLY RESIN 10 (A+B)* is used for high-strength structural bonding of materials commonly used in construction such as concrete, bricks, stones, wood, metals, "Béton Plagué", structural reinforcement of vaults, masonry, reinforced concrete works through the use of composite systems. the use with composite systems of fabrics and foils of the OLYMPUS line and in the application of fabrics, where in addition to ensuring high adhesion to the support, it allows for optimal laying, eliminating the formation of dangerous air bubbles.

| ins             |              |                            |                                  |
|-----------------|--------------|----------------------------|----------------------------------|
| Grouting resins | Article code | PISO2R                     | RES10                            |
|                 | Product      | GUN FOR<br>OLY RESIN EPO-I | OLY RESIN 10                     |
|                 | Packaging    | 1 pcs                      | Kg 20 (10+10)                    |
|                 | Description  | Cartridge gun              | Two component epoxy resin in tin |
|                 | Use          | With OLY RESIN EPO-I       | Embedding of<br>L-connectors     |
|                 | Mesh         | -                          | 1,5 kg/dmc                       |



### **OLY WALL STRUKTURA-F**

OLY WALL STRUKTURA-F is a ready-to-use mortar based on natural hydraulic lime, CE marked in compliance with the requirements of UNI EN 998-1/2 and/or UNI EN 1504-3 with the 2+ certification system for masonry mortar, fiber-reinforced, tested for the nonemission of gamma/radon radiations; it uses entirely recyclable natural materials, fired at low temperatures. recyclable, baked at low temperatures reducing emissions and eneray consumption.

### **OLY WALL STRUKTURA**

OLY WALL STRUKTURA is a ready-to-use mortar based on natural hydraulic lime, reinforced with fibers; it uses entirely recyclable natural materials, fired at low temperatures, reducing emissions and energy consumption. it is free of Chromium VI; it uses traditional materials with low tradition, with a low content of soluble salts; in contact with water it forms hydrated products very little soluble and very stable products of basic nature; high breathability; reduced hydraulic shrinkage.





### OLY WALL I

OLY WALL-I is an injection mix with high resistance to sulphates and low content of water-soluble salts, based on NHL natural hydraulic lime with the addition of natural pozzolanic and carbonate filler, specially formulated to regenerate and consolidate by injection, masonry and sack foundations in brick or ni stone.

| ion   |              |   |  |  |
|---|--------------|---|--|--|
| Wortars for structural recovery and restoration | Article code | WA15SF  | WA15ST   | WA15SIN  |
|   | Product      | OLY WALL<br>STRUKTURA-F   | OLY WALL<br>STRUKTURA  | OLY WALL I   |
|   | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   | Sacks 25 kg<br>Pallets 1600 kg   |
|   | Description  | Structural mortar based<br>on natural hydraulic lime<br>natural NHL 3,5<br>fine-grained | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 |
|   | Use          | FRCM systems and structural smoothing   | CRM Systems and structural plasters  | Injections and grouting in masonry   |
| Š   | Performance  | 16 kg/mq/cm   | 15 kg/mq/cm  | 1,5 kg/dmc   |

### Mortars for structural recovery and restoration

## **OLY GROUT F3**

OLY GROUT F3 is a structural cementitious plaster for interior and exterior use with high resistance. Suitable for anti-seismic structural reinforcement interventions with the technique of reinforced plaster coupled with GFRP nets, in renovations or restorations. Resistance class M30.





# **OLY GROUT T4**

OLY GROUT T4 is a ready to use thixotropic anti-shrinkage hydraulic mortar with added synthetic fibers and corrosion inhibitors. It has high mechanical resistance to both short and long seasoning, strong adhesion to concrete, high resistance to sulfates and sulphates and excellent durability even in very aggressive conditions (marine areas, deicing salts, acid rain, etc.).hawing salts, acid rain). It does not contain metal particles and is chloride-free.

# **OLY GROUT MX**

OLY GROUT MX is a quick-setting, controlled-shrinkage thixotropic repair mortar suitable for the restoration of deteriorated concrete and as an inorganic matrix for the application of FRCM systems with carbon fiber, glass fiber, basalt fiber structural nets. OLY GROUT MX is a mortar composed of hydraulic binders resistant to sulfates, selected aggregates high performance synthetic fibers and additives that give an excellent plastic thixotropic rheology and ensure a high adhesion to the support.



| ion                     |              |   |   |  |
|-------------------------|--------------|---|---|--|
| ery and restoration     | Article code | GR30F3  | GR45T4  | GROOMX   |
|                         | Product      | OLY GROUT F3  | OLY GROUT T4  | OLY GROUT MX   |
| _                       | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   |
| for structural recovery | Description  | Fiber-reinforced<br>structural fiber-reinforced<br>class M30                  | Thixotropic mortar fiber-reinforced with controlled shrinkage controlled shrinkage class R4 | Thixotropic mortar fiber-reinforced with controlled and rapid hardening class R4 |
| Mortars f               | Use          | Interior and exterior plasters also with CRM systems Protection of reinforced | Restoration of works in concrete  | FRCM systems and structural skim coatings  |
|                         | Performance  | 15 kg/mq/cm   | 18 kg/mq/cm   | 19 kg/mq/cm  |

# **Olympus STONE FACE VIEW**

## Structural reinforcement of exposed brick walls



The FACE VIEW systems of the **Olympus STONE** line are based on the technique of the reinforced restyling of the joints and is particularly suitable for the structural reinforcement of exposed walls where for aesthetic and conservation reasons it is not possible to adopt traditional or innovative consolidation techniques that go to some way to cover the vestment. This technique is therefore optimal for all the Italian historical building heritage which has valuable walls and / or with strong architectural value where the conservation of the property becomes of primary importance.

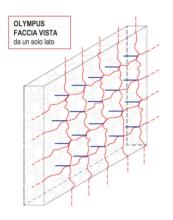
The intervention, in fact, respects the principles underlying the protection of a historic building, resulting in:

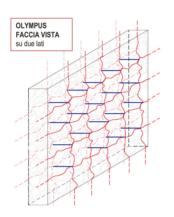
- compatible with the material conservation of the product, being able to adapt perfectly to the product itself;
- durable, having the materials used a high resistance to environmental chemical-physical aggressions;
- intended to integrate (without transforming it) the structure;
- non-invasive;
- reversible (or at least removable);

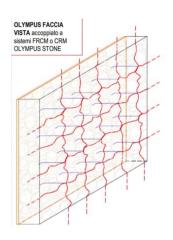


This technique can be used both to reinforce the single masonry panel and to reinforce an internal structure, also creating an effective connection between transverse walls thanks to the continuity of the steel cables that go to reinforce the mortar joints.

The OLYMPUS FACE VIEW system can be used in different configurations according to the specific need and can also be integrated with other systems of the **OLYMPUS STONE** line.







## The possible uses

The technique of armed restoring is suitable for interventions on **irregular walls** where, for reasons of conservation, the **maintenance of the exposed brickwork** is required and, at the same time, a type of non-invasive, reversible and effective intervention.

Therefore, typically, historical buildings, and also archaeological heritage, can find in the *Olympus FACE VIEW* system an adequate solution to some of their structural problems.

# The Olympus STONE FCRM line of solutions



**Helicoidal bars** Oly Chain



Structural mortars
Oly Wall

### 

# **OLY ROPE AISI 316-5**

OLY ROPE 5 AISI 316 is a 19 wires AISI 316 stainless steel strand, with a diameter of 5 mm, for the consolidation of masonry with the system of reinforced reinforcement of the joints called OLYMPUS STONE FACE VIEW.





# **OLY ROPE AISI 316-3**

. . . . . . . . . .

OLY ROPE 3 AISI 316 is a 19 wires AISI 316 stainless steel strand, with a diameter of 5 mm, for the consolidation of masonry with the system of reinforced reinforcement of the joints called OLYMPUS STONE FACE VIEW.

# STAINLESS STEEL CLAMP

Stainless steel clamp.

# CONNECTOR FOR CHAIN 8-10

Stainless steel 3-way connection sleeve.

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| Article code | ROP316S3                                      | ROP316S5                                      | FVOOMO                                 | FVOOCON   |
|--------------|---|---|--|---|
| Product      | OLY ROPE<br>AISI 316 - 3                      | OLY ROPE<br>AISI 316 - 5                      | STAINLESS STEEL<br>CLAMP               | CONNECTOR<br>FOR CHAIN 8-10                     |
| Packaging    | Roll 50/100 ml                                | Roll 50/100 ml                                | 1 pcs                                  | 1 pcs   |
| Description  | Stranded steel<br>stainless steel<br>AISI 316 | Stranded steel<br>stainless steel<br>AISI 316 | Tightening clamp<br>stainless steel R4 | Compass connection in stainless steel 3-way     |
| Use          | Reinforced reinforcement of joints in masonry | Reinforced reinforcement of joints in masonry | Anchoring of strand ends OLY ROPE      | Connection of ROPE and CHAIN in exposed systems |
| Diameter     | 3 mm  | 5 mm  | 3 - 5 mm                               | 8 - 10 mm                                       |

# **OLY CHAIN 304**

*OLY CHAIN 304* is a cold-drawn AISI 304 stainless steel helical bar with high mechanical performance. suitable for the reinforced filling of joints and for single or through one-sided or through connections on masonry, reinforced concrete, arches and vaults. Suitable for seismic upgrading of structures located in areas at risk. Available in diameters 6-8-10-12 mm.



| ars                          |                          |   |   |
|------------------------------|--------------------------|---|---|
| ical b                       | Article code             | S304CH06  | S304CH08  |
| Stainless steel helical bars | Product                  | OLY CHAIN<br>304-6  | OLY CHAIN<br>304-8  |
| less s                       | Packaging                | 10 m roll   | 10 m roll   |
| Stain                        | Description              | Helical bar in stainless steel stainless steel AISI 304     | Helical bar in stainless steel stainless steel AISI 304   |
|                              | Use                      | Dry connections in masonry                                  | Dry connections in masonry                                |
|                              | Diameter                 | 6 mm  | 8 mm  |
|                              |                          |   |   |
| al bars                      | Article code             | \$304CH10   | \$304CH12   |
| teel helical bars            | Article code  Product    | \$304CH10  OLY CHAIN 304-10                                 | \$304CH12  OLY CHAIN 304-12                               |
| ess steel helical bars       |                          | OLY CHAIN   | OLY CHAIN   |
| Stainless steel helical bars | Product                  | OLY CHAIN<br>304-10   | OLY CHAIN<br>304-12                                       |
| Stainless steel helical bars | <b>Product</b> Packaging | OLY CHAIN 304-10  10 m roll  Helical bar in stainless steel | OLY CHAIN 304-12 10 m roll Helical bar in stainless steel |



# **OLY CHAIN 316**

*OLY CHAIN 316* is a cold-drawn AISI 316 stainless steel helical bar with high mechanical performance, suitable for reinforced joints and for one-side or through connections one-sided or through connections on masonry, reinforced concrete, arches and vaults. Suitable for seismic upgrading of structures located in areas at risk. Available in diameters 6-8-10-12 mm.

# CHUCK FOR OLY CHAIN

CHUCK FOR OLY CHAIN is a necessary element for the insertion of helical connectors in the supports. Diameter 8-10mm.

| ars                          |                       |   |   |  |
|------------------------------|-----------------------|---|---|--|
| steel helical bars           | Article code          | S304CH12  | S316CH06  | S316CH08   |
|                              | Product               | OLY CHAIN 304-12  | OLY CHAIN 316-6   | OLY CHAIN 316-8  |
| s ste                        | Packaging             | 10 m roll   | 10 m roll   | 10 m roll  |
| Stainless                    | Description           | Helical bar in stainless steel stainless steel AISI 304     | Helical bar in stainless steel stainless steel AISI 316               | Helical bar in stainless steel stainless steel AISI 316        |
|                              | Use                   | Dry connections in masonry                                  | Dry connections in masonry  | Dry connections in masonry                                     |
|                              | Diameter              | 12 mm   | 6 mm  | 8 mm   |
|                              |                       |   |   |  |
|                              |                       |   | _   | _  |
| bars                         |                       |   |   |  |
| ical bars                    | Article code          | S316CH10  | S316CH12  | CHOOMAN  |
| steel helical bars           | Article code  Product | S316CH10  OLY CHAIN 316-10                                  |   |  |
| less steel helical bars      |                       | OLY CHAIN   | S316CH12<br>OLY CHAIN   | CHOOMAN CHUCK FOR  |
| Stainless steel helical bars | Product               | OLY CHAIN<br>316-10   | S316CH12  OLY CHAIN 316-12  | CHOOMAN  CHUCK FOR  OLY CHAIN 8-10                             |
|                              | Product Packaging     | OLY CHAIN 316-10  10 m roll  Helical bar in stainless steel | 5316CH12  OLY CHAIN 316-12  10 m roll  Helical bar in stainless steel | CHOOMAN  CHUCK FOR OLY CHAIN 8-10  1 pcs  Mandrino con attacco |

### Mortars for structural recovery and restoration



# **OLY WALL STRUKTURA-F**

OLY WALL STRUKTURA-F is a ready-to-use mortar based on natural hydraulic lime, CE marked in compliance with the requirements of UNI EN 998-1/2 and/or UNI EN 1504-3 with the 2+ certification system for masonry mortar, fiber-reinforced, tested for the nonemission of gamma/radon radiations; it uses entirely recyclable natural materials, fired at low temperatures. recyclable, baked at low temperatures reducing emissions and eneray consumption.

# **OLY WALL STRUKTURA**

OLY WALL STRUKTURA is a ready-to-use mortar based on natural hydraulic lime, fiber-reinforced; it uses entirely recyclable natural materials, fired at low temperatures, reducing emissions and energy consumption.it is free of Chromium VI; it uses traditional materials with a low tradition, with a low content of soluble salts; in contact with water it forms hydrated products very little soluble and very stable products of basic nature; high breathability; reduced hydraulic shrinkage.





## **OLY WALL I**

OLY WALL-I is an injection mix with high resistance to sulphates and low content of water-soluble salts, based on NHL natural hydraulic lime with the addition of natural pozzolanic and carbonate filler, specially formulated to regenerate and consolidate by injection, masonry and sack foundations in brick or ni stone.

| OU                      |              |   |  |  |
|-------------------------|--------------|---|--|--|
| ecovery and restoration | Article code | WA15SF  | WA15ST   | WA15SIN  |
|                         | Product      | OLYWALL<br>STRUKTURA-F  | OLY WALL<br>STRUKTURA  | OLY WALL I   |
|                         | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   | Sacks 25 kg<br>Pallets 1600 kg   |
| ır structural recovery  | Description  | Structural mortar<br>based on natural hydraulic<br>lime natural NHL 3,5<br>fine-grained | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 |
| Mortars for             | Use          | FRCM systems and structural smoothing   | CRM Systems and structural plasters  | Injections and grouting in masonry   |
| Ĭ                       | Performance  | 16 kg/mq/cm   | 15 kg/mq/cm  | 1,5 kg/dmc   |

### Mortars for structural recovery and restoration

# **OLY GROUT F3**

OLY GROUT F3 is a structural cementitious plaster for interior and exterior use with high resistance. Suitable for anti-seismic structural reinforcement interventions with the technique of reinforced plaster coupled with GFRP nets, in renovations or restorations. Resistance class M30.





# **OLY GROUT T4**

OLY GROUT T4 is a ready to use thixotropic anti-shrinkage hydraulic mortar with added synthetic fibers and corrosion inhibitors. With synthetic fibres and corrosion inhibitors. It has high mechanical resistance to both short and long seasoning, strong adhesion to concrete, high resistance to sulfates and sulphates and excellent durability even in very aggressive conditions (marine areas, thawing salts, acid rain). It does not contain metal particles and is chloride-free.

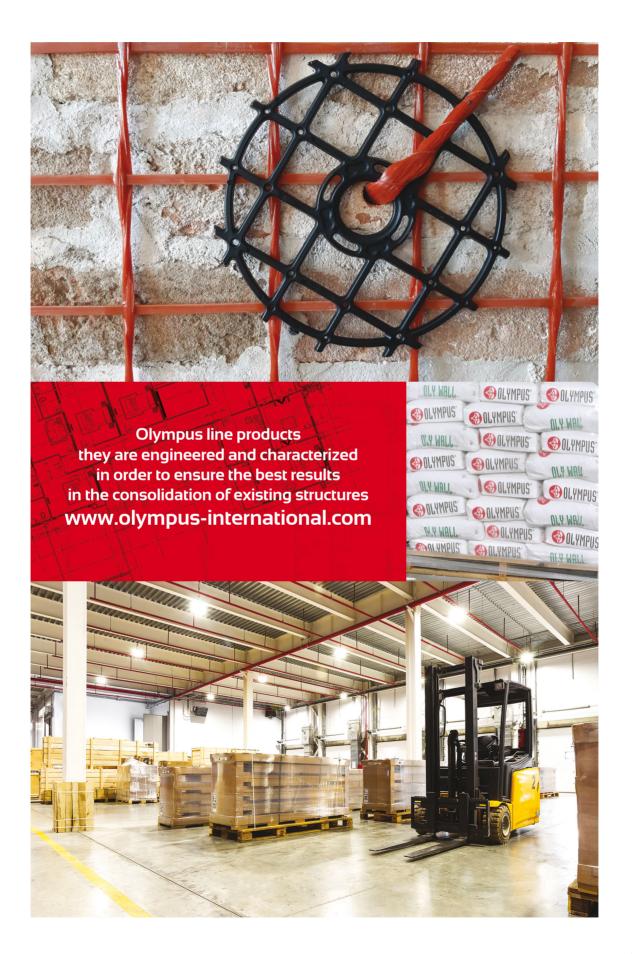
## **OLY GROUT MX**

OLY GROUT MX is a quick-setting, controlled-shrinkage thixotropic repair mortar suitable for the restoration of deteriorated concrete and as an inorganic matrix for the application of FRCM systems with carbon fiber, glass fiber, basalt fiber structural nets. OLY GROUT MX is a mortar composed of hydraulic binders resistant to sulfates, selected aggregates high performance synthetic fibers and additives that give an excellent plastic thixotropic rheology and ensure a high adhesion to the support.



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| and re                                  | F  |
| ecovery                                 | F  |
| for structural recovery and restoration |    |
| Mortars fo                              | l  |

| Article code | GR30F3  | GR45T4   | GROOMX   |
|--------------|---|--|--|
| Product      | OLY GROUT F3  | OLY GROUT T4   | OLY GROUT MX   |
| Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   | Sacks 25 kg<br>Pallets 1600 kg   |
| Description  | Fiber-reinforced<br>structural<br>fiber-reinforced<br>class M30               | Thixotropic mortar fiber-reinforced with controlled shrinkage class R4 | Thixotropic mortar fiber-reinforced with controlled and rapid hardening class R4 |
| Use          | Interior and exterior plasters also with CRM systems Protection of reinforced | Restoration of works in concrete                                       | FRCM systems<br>and structural<br>skim coatings                                  |
| Performance  | 15 kg/mq/cm   | 18 kg/mq/cm  | 19 kg/mq/cm  |





# **OLYMPUS SAFE**

# SAFETY OF FLOORS and CURTAIN WALLS with systems certified by Istituto Giordano Spa

n extremely topical issue is that of securing buildings of public and private interest also with regard to critical issues, not directly related to the load-bearing structures, which can however cause risks to the safety of people. The damage caused by the latest seismic events with socio-economic repercussions has been significant. Not only was human life endangered but the country's economy and its historicalarchitectural heritage were damaged in the face of the significant economic resources necessary for the restoration of entire areas affected by these catastrophic events.

In this regard, OLYMPUS SAFE is included which provides immediate solutions in order to prevent possible damage. Always attention has been paid to trying to increase the strength of the structures by intervening on those parts of the building capable of contributing to the bearing capacity of the same but, especially in recent years, following the numerous news events, the importance of all those elements that in the calculation model very often do not contribute to the bearing capacity of the structure and therefore are considered nonstructural. These are pots, tompagni and secondary elements which, although not directly connected



to the load-bearing capacity, can cause losses in economic terms and in human lives. These elements have been the source of collapses that have led to the uninhabitable of buildings and to losses and risks to human life. The absence of oxidation phenomena also ensures high durability over time of these systems, eliminating of these systems, eliminating the typical criticalities of the traditional interventions.





The OLYMPUS SAFE system provides anti-thrusting techniques, or procedures to be implemented in order to combat detachment phenomena of elements on the intrados of the floors such as pinnacles-lightening elements of the brick-cement floor, plaster etc;

systems that allow to prevent kinematic mechanisms out of the plane of the walls such as the **overturning** of more or less extended portions of tompagni, ensuring an effective connection between the structural parts making up the frame and the partitioning making up the non-

structural element. The proposed systems consist of the use of bidirectional glass fiber nets with high mechanical strength and diversified weight, anchored to the structural elements (beams / beams and pillars) by means of special connection systems.

## The Olympus SAFE line of solutions

Olympus SAFE systems are certified by Istituto Giordano in different configurations, depending on the type of floor to be secured and depending on the performance level to be guaranteed.







# OLYMPUS SAFE ANTI-PUNCHING

### Anti-flapping systems certified at the testing laboratories of Istituto Giordano SpA



he phenomenon of breakthrough affects a large portion of Italian construction, especially public (e.g. schools or offices), built mainly between the 1940s and 1970s. Only after 50 years, however, has this problem linked to non-structural elements, often ignored, such as the bricks (so-called lightening pignatte) of the floors emerged strongly. However, even if it is not an exquisitely structural problem (in reality it is in part), in the event of knocking, up to 100 kg of material (plaster and bricks) can fall off per square meter of floor. The problem is therefore very serious, if we think, for example, of a classroom. Olympus SAFE anti-hammer systems allow to remedy and prevent the phenomenon, making the environment safe.

Olympus SAFE anti-ramming systems come in two different configurations:

- Olympus SAFE dry anti-punching system
- Olympus SAFE anti-punching system in mortar

The two methods differ from each other in the use of a structural mortar into which the system is embedded and which confers a greater homogeneity of mechanical response with a consequent increase in the system limit load.

## The Olympus SAFE line of anti-punching solutions

Olympus SAFE systems are certified by Istituto Giordano in different configurations, depending on the type of floor to be secured and depending on the performance level to be guaranteed.

**Preformed** mesh Oly Mesh



Structural mortars Oly Wall



Connection systems Oly Connect



## The possible uses

The phenomenon commonly referred to as "ramming" is very frequent, especially in some types of brick-cement floors. It consists in the breaking and falling of the "bottom" or brick, present under the beams in some types of floors, due to the effect of the oxidation of the reinforcements present in the joist.In its more

general sense, however, it can be understood any degradation phenomenon that involves the fall of plaster and bricks from the intrados of a floor of any type. Although this is not a structural intervention, this type of remedy allows you to protect things and people from a potential risk.

### ANTI-PUNCHING CERTIFICATIONS

The OLYMPUS SAFE anti-unlocking systems have been tested in the laboratories of Istituto Giordano on full-scale slabs made ad hoc with different construction techniques.

The experimental campaign has provided for the use of the dry system or of the system embedded in structural mortar on different types of floors and with the use of specific connectors in combination with structural fiberglass nets AR.



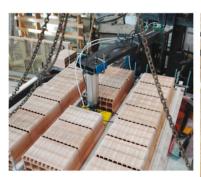
## The configurations tested are:

| Floor type   | Mesh                                     | Connector              | Mortar                 |
|--------------|--|------------------------|------------------------|
| Cementitious | OLY MESH GLASS 115<br>OLY MESH GLASS 250 | OLY CONNECT SAFE       | Dry OLY WALL STRUKTURA |
| SAP / Bricks | OLY MESH GLASS 115<br>OLY MESH GLASS 250 | OLY CONNECT SAFE CA    | Dry OLY WALL STRUKTURA |
| Iron Beams   | OLY MESH GLASS 250                       | OLY CONNECT SAFE STEEL | Dry OLY WALL STRUKTURA |

Tests are carried out by applying a vertical load by means of a thrust punch made of multilayer wood on a portion of the network near the center of the simulacrum of the floor.

The load is applied directly on the net in fiber mesh in a continuous manner until the failure of the fiberglass mesh or a system component.

In each configuration it was it was then possible to obtain the limit load and the corresponding failure mode.







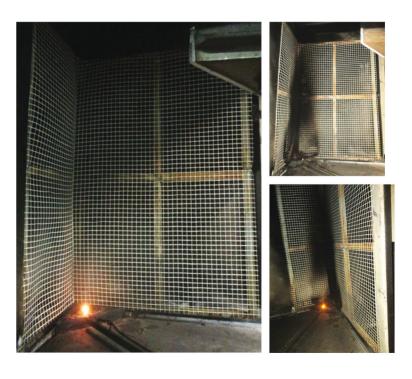






The mesh for anti-punching system is also equipped with the certification for the class of reaction to fire according to the standards UNI EN 13501-1:2019, UNI EN 13823:2014 and UNI EN 11925-2:2010







# **ANTI-TIPPING SYSTEM**

## Anti-overturning systems applicable on reinforced concrete buildings for the connection of perimeter and internal cladding.

uring a seismic event, the seismic shaking invests the building in all directions, urging the infill in and out of the plane. The out of plane response of the infill is negatively influenced by the damage in the plane of the same, therefore, it is important to study the combined effect in and out of the plane in order to be able to design and ensure the safety of the infills. Carrying out interventions aimed at avoiding the overturning of the perimeter

cladding can, in combination with other structural interventions, increase the seismic risk class.

In existing buildings, the infills are not connected to the surrounding frame, ie free at the top and at the lateral ends. The collapse mechanism involves the rigid rotation of the infill panel around the horizontal hinge at the base, formed due to off-plane stresses:

## The Olympus SAFE line of anti-tip solutions

Olympus SAFE anti-overturning systems can be installed in different configurations depending on the degree of safety to be achieved in relation to the direction of the kinematic mechanism to be prevented (only external or internal / external intervention) and also in relation to the type of intervention (only connection or connection and reinforcement). The OLY SAFE anti-overturning system can be installed dry or embedded in OLY WALL / OLY GROUT structural mortar.

Mesh Oly Mesh, Oly Grid Structural mortars Oly Wall, Oly Grout

Resin Oly Resin



Connection systems Oly Rope, Oly Connect

Helical bars Oly Chain



## The possible uses

The **OLYMPUS - SAFE** anti-overturning system is therefore suitable for application on reinforced concrete buildings for the connection of perimeter infill panels, but also internal ones. The intervention can also be performed on both sides of the masonry, whatever the type of constituent stone element. The anti-overturning system can therefore

be applied in 4 configurations:

- 1) External perimeter connection intervention;
- 2) Intervention of internal-external perimeter connection; 3) External widespread connection intervention; 4) Intervention of widespread internal-external connection.

### Preformed fiberglass mesh

# **OLY MESH GLASS 115**

OLY MESH GLASS 115 is a structural mesh made of AR glass fiber (alkaline resistant, with at least 17% zirconium). leno woven and finished with PVA suitable for structural reinforcement and consolidation of masonry, floors, screeds, vaults, concrete and floors.





# **OLY MESH GLASS 250**

OLY MESH GLASS 250 is a preformed structural mesh made of AR (alkaline resistant, with at least 17% zirconium) fiberglass leno woven and finished with PVA suitable for structural reinforcement and consolidation of masonry, floors, screeds, vaults, concrete and floors.

## **OLY MESH GLASS 320**

OLY MESH GLASS 320 is a preformed structural mesh made of AR (alkaline resistant, with at least 16% zirconium) glass fibers woven in leno and finished with PVA suitable for the structural reinforcement of reinforced concrete and masonry elements.



| ish       |              |  |   |   |
|-----------|--------------|--|---|---|
| ss mesh   | Article code | GL115MS  | GL250MS   | GL320MS   |
| fiberglas | Product      | OLY MESH<br>GLASS 115                                | OLY MESH<br>GLASS 250                             | OLY MESH<br>GLASS 320                             |
|           | Packaging    | Rolls 1x50 ml  | Rolls 1x50 ml                                     | Rolls 1x50 ml                                     |
| Preformed | Description  | Preformed net in fiber<br>AR glass fiber of 115 g/mq | Preformed net in fiber AR glass fiber of 250 g/mq | Preformed net in fiber AR glass fiber of 320 g/mq |
|           | Use          | Anti-deflection system for floors                    | Anti-deflection system for floors                 | FRCM systems for anti-tip devices                 |
|           | Mesh         | 13 x 13 mm   | 25 x 25 mm  | 20 x 20 mm  |



# **OLY CONNECT SAFE** SCREW + DOWEL

Universal galvanized steel screw 8x70 mm and nylon plug.

# OLY CONNECT SAFE FLANGE

Improved grip nylon flange 58 mm diameter.





# OLY CONNECT SAFE STEEL SCREW

Universal galvanized steel self-tapping screw for steel 6,3x60 mm with hexagonal head

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| Article code | VTOISAF   | FLOISAF  | VT02SAF   |
|--------------|---|--|---|
| Product      | OLY CONNECT SAFE<br>SCREW + DOWEL   | OLY CONNECT SAFE<br>FLANGE   | OLY CONNECT SAFE<br>STEEL SCREW                             |
| Packaging    | 100 pcs   | 100 pcs  | 100 pcs   |
| Description  | Universal steel screw<br>galvanized steel screw<br>8x70 mm and nylon plug | Nylon flange with improved adherence diameter 58 mm                | Self-tapping screw for 6.3x60 steel with hexagonal head     |
| Use          | Connector for system anti-deflection system on reinforced concrete slabs  | Flange for system shatterproof system on reinforced concrete slabs | Connector for system anti-deflection system on steel floors |
| Mesh         | 3 pcs/sqm   | 3 pcs/sqm  | 3 pcs/sqm   |

### Connectors for shatterproof systems

# OLY CONNECT SAFE C.A.

OLY CONNECT SAFE C.A. is the universal connector suitable for the fixing of structural meshes structural nets made of AR glass fiber (alkaline resistant, with at least 17% of zirconium). The galvanized steel connector is composed of a screw having dimensions 7,5×100 mm and a washer with holes to improve the grip, having external diameter 70 mm.



# **OLY CONNECT SAFE WOOD SCREW**

Universal galvanized self-drilling screw for wood 6x40 mm.





# **OLY CONNECT SAFE** WASHER

Galvanized steel washer diameter 70 mm.

| ms               |              |  |  |  |
|------------------|--------------|--|--|--|
| system           | Article code | VT03SAF  | VT04SAF  | FL02SAF                                      |
|                  | Product      | OLY CONNECT<br>SAFE CA SCREW                                       | OLY CONNECT SAFE<br>WOOD SCREW                               | OLY CONNECT SAFE<br>WASHER                   |
| for shatterproof | Packaging    | 100 pcs  | 100 pcs  | 100 pcs                                      |
|                  | Description  | Universal steel screw galvanized steel screw for concrete 8x100 mm | Universal galvanized screw self-drilling for wood 6x40 mm    | Steel washer<br>galvanized diameter<br>70 mm |
|                  | Use          | Connector for system system on SAP floors                          | Connector for system anti-deflection system on wooden floors | Washer for system system on steel floors     |
|                  | Mesh         | 3 pcs/sqm  | 3 pcs/sqm  | 3 pcs/sqm                                    |





# **CONNECT SQ**

OLY CONNECT SQ is a five-hole bracket with five holes in galvanized steel for the connection of fiberglass nets fiberglass nets of the OLY MESH GLASS line in anti-breakthrough systems.

Connectors for shatterproof systems **SQOOSAF** Article code Product **OLY CONNECT SQ** Packaging 100 pcs Description 5 holes bracket in galvanized steel Use Connection to the wall of systems shatterproof Mesh 2 pcs/sqm



#### Mortars for structural recovery and restoration

# **OLY WALL STRUKTURA-F**

OLY WALL STRUKTURA-F is a ready to use mortar based on natural hydraulic lime, CE marked in compliance with the requirements of UNI EN 998-1/2 and/or UNI EN 1504-3 with 2+ certification system for masonry mortars, fiber-reinforced, tested with regard to the non-emission of gamma/radon radiations; it uses natural materials fully recyclable natural materials, baked at low temperatures reducing emissions and energy consumption; it is free from Chromium VI; it uses traditional materials, with low soluble content of soluble salts; in contact with water it forms hydrated products very little soluble and very stable products of basic nature; reduced hydraulic shrinkage.

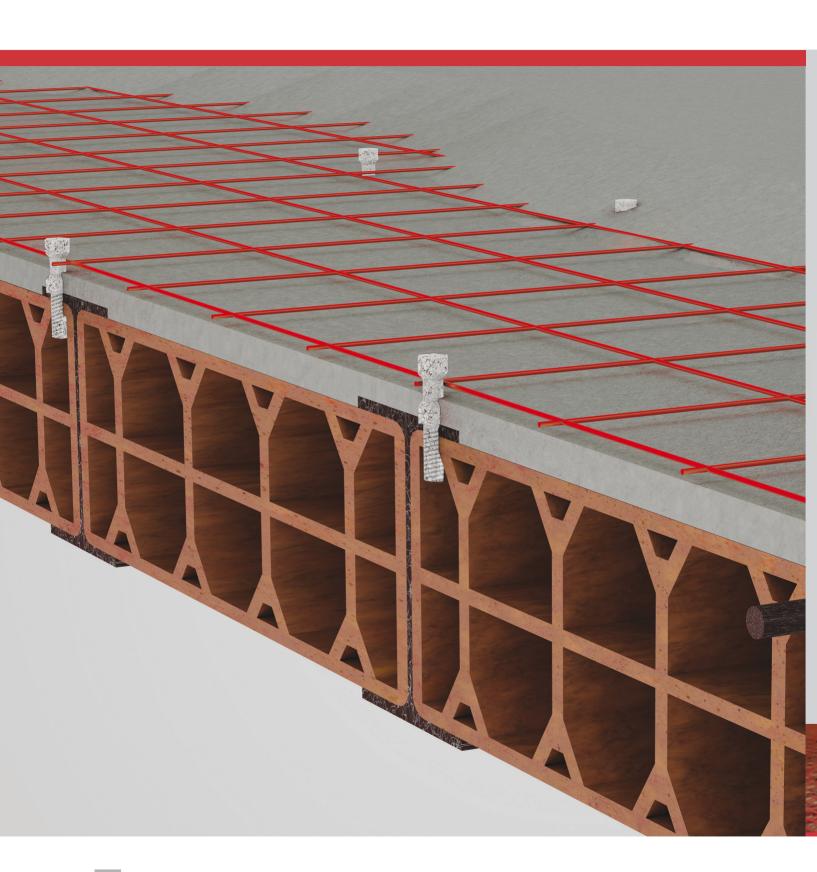




# **OLY WALL STRUKTURA**

OLY WALL STRUKTURA is a ready-to-use mortar based on natural, fiberreinforced hydraulic lime; it uses entirely recyclable natural materials, baked at low temperatures reducing emissions and energy consumption. Chromium VI free; it uses traditional materials with a low content of soluble salts; in contact with water it forms hydrated products that are very little soluble and very stable products of basic nature; high breathability; reduced hydraulic shrinkage. It is marked CE in accordance with the requirements of UNI EN 998-2 for masonry mortars class M15 and according to UNI EN 998-1 as mortar for interior and exterior GP CS IV with 2+ certification system.

| ion                   |              |   |  |
|-----------------------|--------------|---|--|
| storat                | Article code | WA15SF  | WA15ST   |
| y and restoration     | Product      | OLY WALL<br>STRUKTURA-F   | OLY WALL<br>STRUKTURA  |
| _                     | Packaging    | Sacks 25 kg<br>Pallets 1600 kg  | Sacks 25 kg<br>Pallets 1600 kg   |
| r structural recovery | Description  | Structural mortar<br>based on natural<br>hydraulic lime natural<br>NHL 3,5 fine-grained | Structural mortar<br>based on natural<br>hydraulic lime<br>natural NHL 3,5 |
| <b>Mortars</b> for    | Use          | FRCM systems and structural smoothing   | CRM Systems<br>and structural plasters                                     |
| Š                     | Performance  | 16 kg/mq/cm   | 15 kg/mq/cm  |



# **OLYMPUS FLOOR**



# **STRUCTURAL CONSOLIDATION**

## The Olympus FLOOR line is specially designed for the structural consolidation of existing floors

ompared to traditional interventions, the Olympus FLOOR solution is characterized by the use of innovative materials, lightened and compatible with the building, through an intervention on the extrados which provides for the creation of a collaborating insole.

Through Olympus FLOOR systems it is possible to intervene on all types of floors thanks to specific connectors that adapt to any type of load-bearing structure, guaranteeing system operation. Different types of Oly Mesh Glass fiberglass nets are also used, which are characterized by high mechanical performance, extreme lightness and maneuverability on site, absence of oxidation phenomena and therefore high durability over time.

All Oly Connect FLOOR connectors are available in two heights allowing the creation of even very thin insoles, limiting the thickness of the intervention to the maximum and therefore reducing its invasiveness



To request a verification of your floor you can download free software OLY-FLOOR software or contact our technical office where a team of engineers will be ready to respond to your requests.

## The Olympus FLOOR line of solutions

#### The **Olympus FLOOR** system involves the use of different components:

- Reinforcement with preformed

  AR fiberglass mesh to reinforce the insole contributing to the distribution of efforts. The use of OLY MESH GLASS fiberglass nets allows the use of extremely manageable and light materials.
- 3 Lightened concrete prepackaged

- Dry connectors for collaborating slabs, to keep the thickness of the integrative slab to a minimum so as not to raise the trampling quotas and not reduce the useful height of the premises.
- Helical bars in stainless steel for the perimeter connection

# O,

### Scope of application

With **OLYMPUS-FLOOR** systems, it is possible to additional castings at the extrados of existing floors without significantly increasing the weight of the existing structures thanks to the use of special pre-packaged concretes lightened with clay that weigh about half as much as traditional concretes.

# Dry connectors are specific for three types of existing floors

- Existing wooden floors (solid or laminated)
- Existing concrete floors (concrete and cement slabs)
- Existing steel floors (beams and hollow core slabs)



GFRP (Glass Fiber Reinforced Polymers) can be used instead of traditional metal reinforcements electrowelded mesh to reinforce the slab contributing to the distribution of efforts. The use of OLY MESH GLASS allows the use of materials extremely manageable and light. They are in fact nets supplied in rolls easily transportable to the floor and immune from the problem of corrosion as they are made of resistant to alkaline environments alkaline environments.

When working on existing floors, there is often the need to keep the thickness of the minimum thickness of the integrative slab in order not to raise the floor and do not reduce the height of the rooms. Thanks to the OLYMPUS-FLOOR systems you can use the connectors **OLY CONNECT FLOOR** connectors for lowered slabs, containing the thickness of the slab down to only 3 cm.

For reinforcement of decks of buildings in load-bearing masonry, it is often useful to realize also a perimeter

connection to the load-bearing load-bearing masonry in order to provide a significant contribution to the box-like behavior of the building, solving one one of the most critical issues of masonry structures, namely the poor degree of connection between orthogonal masonry, especially in the absence of summit curbs. This connection can be realized through the insertion of helical bars in stainless steel OLY CHAIN AISI 304/316 inside the perimeter walls and then drowned then in the completion casting with lightened concretes OLYGROUT.



### The possible uses

Olympus FLOOR systems are designed to be used in the structural consolidation of existing floors. The reinforcement occurs through the construction of a slab collaborating on the extrados of the deck. This type of intervention allows to:

- Increase the rigidity of the deck and consequently decrease its deformability;
- 2) Increase the load-bearing capacity of the deck;
- 3) Improve the seismic behavior of the building.

Depending on the type of connector used to connect the slab with the existing structure, it is possible to intervene on different types of construction of floors.

Below are the most common possible uses depending on the structural type of the elements to be reinforced.

#### a) Solid wood or laminated wood floors

This type of deck is very common in load-bearing masonry buildings in load-bearing masonry realized until the early '900 and are characterized, generally, for a certain deformability. Very often, within of interventions of recovery and restoration of historical buildings, there is an increasing tendency to enhance these constructive elements preserving their beauty and their charm. By intervening on the extrados with the OLYMPUS-FLOOR systems, it is possible to

confer a high degree of stiffness to the floor and thanks to the use of connectors OLY CONNECT FLOOR WOOD connectors a uniform of the package that guarantees greater load-bearing load-bearing capacity. In addition, by also creating the perimeter connection with OLY CHAIN it is possible to give a better seismic response to the masonry. In the modern version with the same principles of intervention apply.



### OLYMPUS FLOOR - The possible uses

### b) Slabs with steel beams

With OLYMPUS-FLOOR systems it is possible to intervene also on floors made with metal beams. In fact, thanks to specific connectors
OLY CONNECT FLOOR STEEL connectors it is possible to make the beams and the slab to be cast with the lightened concretes OLY GROUT 1500/1600.

The composite steel-concrete slab will be able to withstand able to resist much higher loads even for low slab thicknesses. In fact, all connectors are available in a lowered version allowing you to minimize the overall dimensions of the lightened concrete casting.



### c) Concrete floors

It is also possible for concrete slabs to intervene at the extrados through the realization of a slab reinforced with AR glass fiber mesh and made collaborating through specific connectors OLY CONNECT FLOOR CA. In this way it is possible to increase the load-bearing capacity of an existing floor, perhaps undersized, thus solving the problems of structural deficit.



### Lightweight concretes



# **OLY GROUT 1500**

OLY GROUT 1500 is a premixed concrete lightened with expanded clay. The components consist of Portland cement 42.5 II A-LL according to UNI EN 197/1; aggregates in accordance with UNI EN 12620; expanded clay in accordance with UNI EN 13055 and specific additives to improve workability.

# **OLY GROUT 1600**

OLY GROUT 1600 is a pre-mixed concrete lightened with expanded clay. The components consist of Portland cement 42.5 II A-LL according to UNI EN 197/1; aggregates in compliance with UNI EN 12620; expanded clay in compliance with UNI EN 13055 and specific additives to improve workability.



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| Article code   | GR1500C  | GR1600C  |
|----------------|--|--|
| Product        | OLY GROUT 1500   | OLY GROUT 1600   |
| Packaging      | Sacks 25 kg Pallets 1600 kg  | Sacks 25 kg Pallets 1600 kg  |
| Description    | Ready-mixed concrete lightened with clay for structural structural castings. Weight 1500 kg/mc | Ready-mixed concrete lightened with clay for structural structural castings. Weight 1600 kg/mc |
| Strength class | Rck 26 MPa   | Rck 33 MPa   |
| Performance    | 55 bags/mc   | 55 bags/mc   |

# OLY CONNECT FLOOR C.A.

OLY CONNECT FLOOR C.A. is the dry connector for lowered slab, with head of only 27 mm for concrete with thickness at least 30 mm. The dry connector with lowered head is used for the consolidation of existing slabs. The dry connector dry connector improves the technique of connection of the concrete slabs under the aspects of practicality, simplicity and economy.





# OLY CONNECT FLOOR STEEL

*OLY CONNECT FLOOR STEEL* is composed of a single steel pin with a diameter of 16 mm, with lower part 15 mm long threaded UNI5737 M12×1.5×20 self tapping for mechanical connection with the steel profile, with end-stop and upper part of standard height of 27 mm (standard height). upper part with a standard height of 27 mm (variable depending on the thickness of the slab (variable according to the thickness of the collaborating slab), shaped with a groove to grip the concrete hood.

# OLY CONNECT FLOOR WOOD

OLY CONNECT FLOOR WOOD is the dry connector for lowered slab, with head of only 27 mm for concrete with thickness of at least 30 mm. The dry connector with lowered head is used for the consolidation of existing wooden floors. The dry connector improves the technique of connection of the wooden floors under the aspects of practicality, simplicity and economy.



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|----------------|--------------|--|---|---|
| connector      | Article code | CONOIFL  | CON02FL   | CON03FL   |
| slab cor       | Product      | OLY CONNECT<br>FLOOR C.A.                                      | OLY CONNECT<br>FLOOR STEEL                            | OLY CONNECT<br>FLOOR WOOD                             |
| Collaboratings | Packaging    | 50 pcs   | 50 pz   | 50 pz   |
|                | Description  | Dry connector in steel connector for reinforced concrete slabs | Steel dry connector for steel slab                    | Steel dry connector steel for wooden floors           |
|                | Use          | Realization of collaborating slabs on existing floors          | Realization of collaborating slabs on existing floors | Realization of collaborating slabs on existing floors |
|                | Performance  | 4-6 pcs/sqm  | 4-6 pcs/sqm   | 4-6 pcs/sqm   |

#### Preformed nets for slab reinforcement



## **OLY MESH GLASS 33x33**

OLY MESH GLASS CRM 33×33 is a preformed structural mesh made of AR glass fiber, suitable for structural reinforcement and consolidation of masonry using CRM systems of reinforced plaster embedded in OLY WALL STRUKTURA and OLY GROUT T4/F3 mortar.

# **OLY MESH GLASS 40x40**

OLY MESH GLASS CRM 40 is a preformed structural mesh made of AR glass fiber, suitable for the structural reinforcement and consolidation of masonry using CRM systems of reinforced plaster embedded in OLY WALL STRUKTURA mortar.





# OLY MESH GLASS 66x66 W

OLY MESH GLASS CRM 66×66 W is a preformed structural mesh made of AR glass fiber, suitable for structural reinforcement and consolidation of masonry by means of CRM systems systems of reinforced plaster embedded in OLY WALL STRUKTURA and OLY GROUT T4/F3 mortar.

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| Article code | GL33MS   | GL40MS   | GL66WMS  |
|--------------|--|--|--|
| Product      | OLY MESH<br>GLASS 33x33  | OLY MESH<br>GLASS 40x40  | OLY MESH<br>GLASS 66x66 W  |
| Packaging    | Roll 2x25 m  | Roll 2x20 m  | Roll 2x25 m  |
| Description  | Monolithic mesh preformed fiberglass AR glass fiber with matrix 920 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 980 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 760 g/sqm epoxy matrix |
| Use          | CRM Reinforced<br>Plaster  | CRM Reinforced<br>Plaster  | CRM Reinforced<br>Plaster  |
| Mesh         | 33 x 33 mm   | 40 x 40 mm   | 66 x 66 mm   |

### OLYMPUS FLOOR Solutions | Preformed nets for slab reinforcement

# OLY MESH GLASS 66x66 L

OLY MESH GLASS CRM 66×66 L is a preformed structural mesh made of AR glass fiber, suitable for structural reinforcement and consolidation of masonry by means of CRM systems of reinforced plaster embedded in OLY WALL STRUKTURA and OLY GROUT T4/F3 mortar.





# **OLY MESH GLASS 80x80**

OLY MESH GLASS CRM 80×80 is a preformed structural mesh in glass fiber AR, suitable for structural reinforcement and consolidation of masonry by means of CRM systems of reinforced plaster embedded in mortar OLY WALL STRUKTURA and OLY GROUT T4/F3.

# OLY MESH GLASS 99x99

OLY MESH GLASS CRM 99x99 is a preformed structural mesh in AR glass fiber, suitable for structural reinforcement and consolidation of masonry using CRM systems systems of reinforced plaster embedded in OLY WALL STRUKTURA and OLY GROUT T4/F3 mortar.



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| rcement            | Article code | GL66LMS   | GL80MS   | GL99MS  |
| b reinford         | Product      | OLY MESH<br>GLASS 66x66 L   | OLY MESH<br>GLASS 80x80  | OLY MESH GLASS<br>99x99   |
| slab               | Packaging    | Roll 2x25 m   | Roll 2x20 m  | Roll 2x25 m   |
| Preformed nets for | Description  | Monolithic mesh<br>preformed fiberglass<br>AR glass fiber with matrix<br>465 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 490 g/sqm epoxy matrix | Monolithic mesh preformed fiberglass AR glass fiber with matrix 3000 g/sqm epoxy matrix |
|                    | Use          | CRM Reinforced<br>Plaster   | CRM Reinforced<br>Plaster  | CRM Reinforced<br>Plaster   |
|                    | Mesh         | 66 x 66 mm  | 80 x 80 mm   | 99 x 99 mm  |



