

## Armoglass Structura 115

115 grams/m<sup>2</sup> of alkali-resistant fibreglass structural mesh



115 g/m<sup>2</sup> structural reinforcement mesh in alkali-resistant fibreglass with 12 x 12 mm square mesh, containing >16% zirconium dioxide, constructed with a leno weave and primed with thermosetting polymer. It is straightforward and quick to apply, simple to handle and easy to cut. Resistant to atmospheric agents and aggressive environments, conferring durability to the composite systems in which it is used. Suitable for any substrate and perfectly compatible with both cement- and lime-based mortars. Perfect for strengthening reinforced plastering with an anti-overturning function along with the structural consolidation of masonry and vaulted structures.

**CUSTOMS CODE:** 7019 6100

**COMPONENTS:** Single-component

**APPEARANCE:** Net

**AVAILABLE COLORS:** Red

**PACKAGING AND DIMENSIONS:** Roll 50 m<sup>2</sup> - Roll 100 m<sup>2</sup>

### OBTAINED CERTIFICATIONS AND REGULATIONS



### FEATURES AND BENEFITS

Easy and quick application, simple to handle and to cut. Combines lightness and thinness with excellent mechanical characteristics in terms of the weft and warp. Resistant to atmospheric agents and aggressive environments, it confers durability to the composite systems in which it is used. Suitable for any substrate and perfectly compatible with both cement-based and lime-based mortars.

### FIELDS OF APPLICATION

Armoglass Structura 115 is a mesh for the structural reinforcement and consolidation of masonry and vaulted structures. It is ideal for reinforcing plasters with anti-overturning function.

### ALLOWED SUPPORTS

Plasters - Concrete - Cement-based or lime-based mortars - Mixed walls (bricks and stones) - Brickworks - Stone walls - Porphyry and natural stones - Bricks



## MODE OF USE

Application on masonry and vaults: In the event that connectors are being used, proceed with creating holes of a suitable diameter, in accordance with the chosen connection system and arranged in line with the design instructions and with the selected connection system (Armoglass Connector, Armoglass Connector SINGLE, Armoglass Connector Twin). Secure the connectors with resin anchors (Syntech Profix) or hydraulic binder-based slurry (Grout Cable, Sanafuens). Apply an initial layer of mortar (see the technical data sheet of the selected product), positioning the Armoglass Structura 115 mesh on the still-fresh mortar, taking care to ensure an overlap of at least 10 centimetres, before applying the second layer of mortar. Whilst the mortar is still fresh, lay the mesh sheeting, proceeding from top to bottom, and immersing with the help of a putty knife, being sure to overlap each segment by at least 10 centimetres and impeding the formation of bubbles and bends.

## APPLICATION METHODS

Apply by hand

## KEY FEATURES

↔ Lenght: 50 m

☰ Suitable for contact with drinking water

☞ Use wearing protective gloves

↔ Width: 100 / 200 cm

🔥 Nonflammable

♻️ Unlimited shelf-life

☀️ UV-resistant

## TECHNICAL SPECIFICATIONS

Warp tensile strength (Tensile speed 10 mm / min) **26 kN/m**

*ISO 10406-1:2015*

Single warp thread tensile strength (Tensile speed 100 mm / min)  
**0.410 kN**

Warp tensile strength (Tensile speed 100 mm / min) **30 kN/m**

Longitudinal elongation at break **1.50 %**

*ISO 3374:2000*

Raw fabric weight **84 g/m<sup>2</sup>**

Glass elastic module **72.000 N/mm<sup>2</sup>**

*ISO 10406-1:2015*

Single wire weft tensile strength (Tensile speed 100 mm / min) **0.452 kN**

Weft tensile strength (Tensile speed 100 mm / min) **33 kN/m**

Thickness **0.90 mm**

*CNR DT 200 R1/2013*

Resistant warp-weft section **15.672 mm<sup>2</sup>/m**

*ISO 3374:2000*

Dressed fabric weight **112 g/m<sup>2</sup>**

Glass density **2.68 g/cm<sup>3</sup>**

*ISO 527-4,5:1997*

Single wire weft tensile strength (Tensile speed 10 mm / min) **0.410 kN**

Weft tensile strength (Tensile speed 10 mm / min) **30 kN/m**

Mesh size **12 x 12 mm**

Single wire nominal area **0.229 mm<sup>2</sup>**

*ISO 527-4,5:1997*

Single warp thread tensile strength (Tensile speed 10 mm / min) **0.356 kN**

## CONSUMPTION

1.1 m/m<sup>2</sup>: The sheets adjacent to the fibreglass mesh are to be overlapped along the edges by at least 10 centimetres.



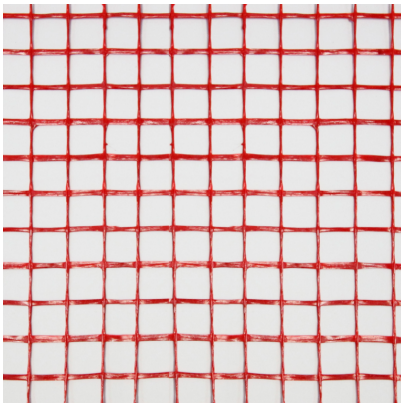
## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance.

## PHOTO GALLERY



## ADDITIONAL CONTENT



## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

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It is forbidden to dispose of the product and/or packaging in the environment.

