



Family  
Admix

Type  
Alkaline-resistant fibreglass meshes and connectors

Product Lines  
• Building  
• Infratech  
• Opus  
• Sanageb

Functional Categories  
• Structural strengthening of masonry in historic buildings  
• Structural reinforcement of brick, stone or mixed masonry and concrete products

Components  
Single-component

Appearance  
Net

ADX.0373

## ARMAGLASS STRUCTURA 320

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

### Packaging

- Roll 50 m<sup>2</sup>
- Roll 100 m<sup>2</sup>

### Application

- Apply by hand

## General description

320 gram/square metre structural mesh made of alkali-resistant fibreglass, containing >16% zirconium dioxide, constructed in English-style lap primed with thermosetting polymer. 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.


## Dosage

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.

## Fields of application

ARMAGLASS STRUCTURA 320 is a mesh for the structural reinforcement and consolidation of masonry and vaulted structures. It is ideal for reinforcing plasters with anti-overturning function, for the reinforcement and distribution of shrinkage stresses on walkable or drainage screeds and concrete flooring.

## Basic features

 Length:  
50 m


 Nonflammable


 Suitable for contact with drinking water

 Unlimited shelf-life

 Use wearing protective gloves

 UV-resistant

 Width:  
100 / 200 cm

 Available colours  
Red

## Technical specifications

*Alkali-resistant material*

*Dressed fabric weight ISO 3374:2000: 320 g/m<sup>2</sup>*

*Equivalent texture thickness CNR DT 200 R1/2013: 0.044 mm*

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

*Glass elastic module: 72000 N/mm<sup>2</sup>*

*Longitudinal elongation at break: 1.80 %*

*Mesh size: 20 x 20 mm*

*Net elastic modulus (warp): 66750 N/mm<sup>2</sup>*

*Net elastic modulus (weft): 61680 N/mm<sup>2</sup>*

*Raw fabric weight ISO 3374:2000: 240 g/m<sup>2</sup>*

*Resistant warp-weft section CNR DT 200 R1/2013: 44.776 mm<sup>2</sup>/m*

*Single warp thread tensile strength (Tensile speed 10 mm / 1.27 kN min) ISO 527-4,5:1997:*

*Single warp thread tensile strength (Tensile speed 100 mm / 1.45 kN min) ISO 10406-1:2015:*

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Single wire nominal area: 0.9981 mm<sup>2</sup>

Single wire weft tensile strength (Tensile speed 10 mm / min) 1.37 kN  
ISO 527-4,5:1997:

Single wire weft tensile strength (Tensile speed 100 mm / min) 1.38 kN  
ISO 10406-1:2015:

Thickness: 1.15 mm

Warp equivalent thickness CNR DT 200 R1/2013: 0.044 mm

Warp tensile strength (Tensile speed 10 mm / min): 63.5 kN/m

Warp tensile strength (Tensile speed 100 mm / min): 72.5 kN/m

Weft tensile strength (Tensile speed 10 mm / min): 68.5 kN/m

Weft tensile strength (Tensile speed 100 mm / min): 69 kN/m

## Applicable on

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

## Instructions for use

Application on masonry and vaults:

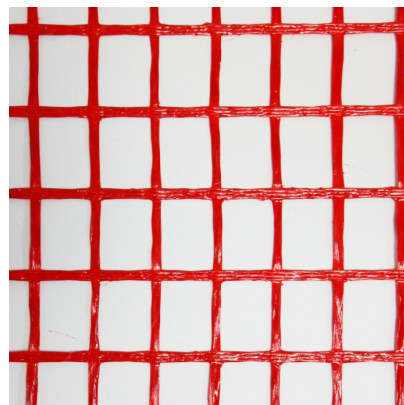
In the event that connectors are being used, proceed with creating holes of a suitable diameter, in accordance with the chosen connection system and arranged in line with the design instructions and with the selected connection system (ARMAGLASS CONNECTOR, ARMAGLASS CONNECTOR SINGLE, ARMAGLASS CONNECTOR TWIN). Secure the connectors with resin anchors (SYNTECH PROFIX) or hydraulic binder-based slurry (GROUT CABLE, SANAFLEUENS). Apply an initial layer of mortar (see the technical data sheet of the selected product), positioning the ARMAGLASS STRUCTURA 320 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 on screeds:

Apply an initial layer of screed (see the technical data sheet of the selected product), laying the ARMAGLASS STRUCTURA 320 mesh on the first layer of still-fresh screed, taking care to ensure an overlap of at least 10 centimetres, then applying the second layer of screed.

## Storage and preservation

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.



## Warnings, Precautions and Ecology

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.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

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

*ARMAGLASS STRUCTURA 320 is produced/distributed by*



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