



Technical data sheet	N. A 1072 06-19	
GLASSTEX® STRUKTURA 320 - Art. GT AR 320		
STRUCTURAL FIBER GLASS MESH, AR GLASS, WITH >16% ZIRCONIUM DIOXIDE > 16 %, PRIMED, MADE USING THE LENO TECHNIQUE. "THERMOSET POLYMER FINISH"		
Product suitable for structural reinforcement and consolidation of masonry, vaults and floors as walking screeds or draining screeds for street furniture.		

GEOMETRIC CHARACTERISTICS	NOMINAL VALUE	TOLERANCE	REGULATION
PRIMED FABRIC WEIGHT	320 g/m ²	+/- 5 %	ISO 3374:2000
RAW FABRIC WEIGHT	240 g/m ²	+/- 5 %	ISO 3374:2000
ZIRCONIUM DIOXIDE CONTENT	> 16 %	-	-
MEDIUM THICKNESS OF PRIMED FABRIC	1.15 mm	+/- 5 %	VIM JCGM 200:2012
STICH DIMENSION	20x20 mm	+/- 5 %	VIM JCGM 200:2012
SINGLE-WIRE NOMINAL AREA	0,9981 mm ²	-	-
COLOUR	RED	-	-
EQUIVALENT THICKNESS (warp)	0.044 mm	+/- 5%	CNR-DT 200 R1/2013
EQUIVALENT THICKNESS (weft)	0.044 mm	+/- 5%	CNR-DT 200 R1/2013
ELONGATION AT BREAK	1.80 %	-	INTERNAL TEST
AVERAGE WIRE WIDTH	2.00 mm	-	-
NUMBER OF WIRES IN WEFT	50	-	-
ROLL HEIGHT ROLL	100/200 cm	-	UNI 9311/2
LENGHT	50/50 m	-	UNI 9311/2



PROJECT FEATURES	NOMINAL VALUE	TOLERANCE	REGULATION
GLASS DENSITY	2,68 g/cm ³	+/- 5 %	-
GLASS MODULUS OF ELASTICITY	72.000 N/mm ²	+/- 5%	-
TENSILE STRENGTH SINGLE WIRE (warp) traction speed 1 mm/min	1,116 kN		-
TENSILE STRENGTH SINGLE WIRE (warp) traction speed 10 mm/min	1,270 kN	+/- 5%	ACCORDING TO ISO 527-4,5 : 1997
TENSILE STRENGTH SINGLE WIRE (warp) traction speed 100 mm/min	1,450 kN		ACCORDING TO ISO 10406-1:2015 STS-17/0013
TENSILE STRENGTH SINGLE WIRE (Weft) traction speed 1 mm/min	1,122 kN		-
TENSILE STRENGTH SINGLE WIRE (Weft) traction speed 10 mm/min	1,370 kN	+/- 5%	ACCORDING TO ISO 527-4,5 : 1997
TENSILE STRENGTH SINGLE WIRE (Weft) traction speed 100 mm/min	1,380 kN		ACCORDING TO ISO 10406-1:2015 STS-17/0013
TENSILE STRENGTH (warp) traction speed 1 mm/min	55 kN/m		
TENSILE STRENGTH (warp) traction speed 10 mm/min	63.5 kN/m	+/- 5%	-
TENSILE STRENGTH (warp) traction speed 100 mm/min	72.5 kN/m		
TENSILE STRENGTH (Weft) traction speed 1 mm/min	55 kN/m		
TENSILE STRENGTH (Weft) traction speed 10 mm/min	68.5 kN/m	+/- 5%	-
TENSILE STRENGTH (Weft) traction speed 100 mm/min	69 kN/m		
RESISTANT SECTION (warp)	44,776 mm ² /m	+/- 5%	CNR-DT 200 R1/2013
RESISTANT SECTION (Weft)	44,776 mm ² /m	+/- 5%	CNR-DT 200 R1/2013
MESH ELASTIC MODULUS (warp)	66.750 N/mm ²	+/- 5%	-
MESH ELASTIC MODULUS (Weft)	61.680 N/mm ²	+/- 5%	-



Advantages

- Quick and easy to apply
- Lightness and reduced thickness
- Excellent mechanical characteristics in warp and weft
- Resistance to atmospheric agents
- Easy to cut and easy to handle
- Usable in aggressive environments
- Durability
- Suitable for any kind of support
- Usable with lime and / or cement based mortars
- Radiotranslucent

Preparation of the support

To prepare the support carefully follow the instructions in the technical data sheets of the product with which the mesh **Glasstex Struktura 320** is combined:

- Clay Line mortars;
- Concrete Line mortar line.

Usages

Proceed to make holes of suitable diameter and inclination (at least 4 per m²) depending on the chosen connection system: Vortex, Glass Connector or Focchi (see technical data sheets).

Apply a first layer of mortar (see technical data sheet of the chosen product), lay the mesh **Glasstex Struktura 320** and in correspondence of the corners or corners, place Angolo Struktura on the still fresh mortar, take care to ensure at least 15 cm on the overlaps, lay the second layer of mortar.

Integrate the aforementioned indications referring to the Biemme quaderno tecnico applicativo regarding the Armatex line, the latest version is available on the site:

<http://biemmebiagiotti.com/wp-content/uploads/2017/06/QUADERNO-TECNICO-APPLICATIVO.pdf>

For uses other than those indicated, please contact our technical office.

Specifications

Structural mesh in AR GLASS fiberglass (Alkali-resistant) containing >16% zirconium dioxide made with leno technique and primed, suitable for structural reinforcement, anti-collapsing of the floors and the consolidation of stone, brick, tuff walls and mix-stone walls, vaults and floors such as walking screeds for street furniture and drainage screeds (such as GLASSTEX STRUKTURA 320 by Biemme Srl) with the following characteristics: weight of the fabric prepared 320 g / m², weight of raw fabric 240 g / m², mesh size 20x20 mm, tensile strength (warp) 63.5 kN / m, tensile strength (weft) 68.5 kN / m.

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