

TECHNICAL CHARACTERISTICS

	Material	Specific weight	Weight	Weft ropes per 10cm	Warp ropes per 10cm	Ø Warp rope	Fabric thickness	Tensile strength	Elastic modulus
650	Galvanized steel	7,85 g/cm ³	650 g/m ²	7	16	1,10 mm	1,85 mm	2400 - 2700 MPa	180 GPa
1350	Galvanized steel	7,85 g/cm ³	1350 g/m ²	7	27	1,10 mm	1,85 mm	2400 - 2700 MPa	180 GPa
2200	Galvanized steel	7,85 g/cm ³	2200 g/m ²	7	43	1,10 mm	1,85 mm	2400 - 2700 MPa	180 GPa

CHEMICAL COMPOSITION OF GALVANIZED STEEL

Symbol	C	Si	Mn	S	Cr	P	Ni	Cu	V
Content	0,592	0,200	0,640	0,006	0,070	0,009	0,060	0,090	0,03

PRODUCT DESCRIPTION

The **unidirectional galvanized steel** fabric is a technical metal fabric with UHTSS unidirectional reinforcement, **made from high-strength, ductile galvanized steel filaments**. It is designed to ensure high mechanical performance while maintaining low weight and thickness.

The product is used in combination with an inorganic matrices; it is applied in the structural consolidation of masonry works, reinforced concrete elements and prestressed reinforced concrete structures.

Unidirectional galvanized steel is a durable solution for consolidation works.

MAIN APPLICATIONS:

The main applications of **unidirectional galvanized** fabric include:

- Creation of **FRCM** (Fiber Reinforced Cementitious Matrix) systems for masonry structure reinforcement
- Reinforcement of reinforced concrete curb beams
- Consolidation of arches and vaults made of brick, natural stone, and tuff
- Construction of reinforced brickwork
- Structural reinforcement of beams and joists
- Flexural, shear, and confinement reinforcement of masonry panels (brick, natural stone, tuff) and reinforced concrete sections
- Reinforcement of steel I-beams and timber elements
- Construction of top or in-fill bond beams in reinforced masonry
- Creation of special single or double anchor connectors for fabric and mesh anchoring and for reinforced injections
- Consolidation and reinforcement of exposed stone masonry using a diffuse mesh pattern



PRECAUTIONS FOR USE:

Before use, appropriate **Personal Protective Equipment (PPE)**, such as gloves and protective goggles, must be worn to prevent risks during material handling.

NOTES:

The information contained in this technical sheet is to be considered indicative and subject to change depending on application conditions. The company reserves the right to modify the technical characteristics of the product without notice.