



ARRIGO GABBIONI ITALIA S.r.l.  
Via Lago Vecchio, 6  
23801 Calolziocorte (LC)  
Tel. 0341/634776  
Fax 0341/633484  
CF/P.IVA 0234644016

## TECHNICAL DATA SHEET

GALFAN ARRMAT  
BROWN

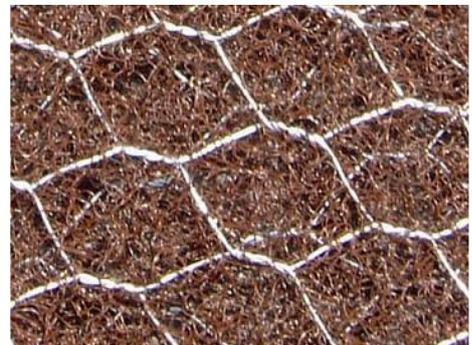
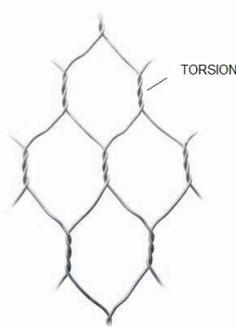
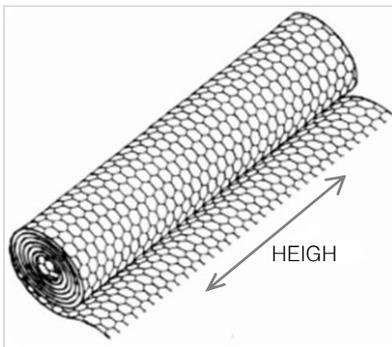
The Arrmat is a product made of hexagonal double-twisted steel woven wire mesh.galfan coated coupled with a high-performance polypropylene geomat with a high alveolar index that performs an anti-erosion function - preventing the removal of the soil by exogenous agents -and an adherence function increasing the friction angle at the interface of a smooth surface.

It is applied with anti-erosion function on natural slopes, banks of basins, canals, and landfills and with a adherence function in the covers of basins and dumps, where the friction between the covering ground and the waterproof covering is particularly low.

It is currently widely used in channels coating to defend from coypu.

The structure of the geomat is made to trap the grains of ground preventing the slipping.

The flexibility of the product makes it suitable also where bends or changes of inclination are present. The geomat with an open structure on both sides does not hinder the passage of water or the development of roots and is unassailable by microorganisms and / or chemical agents present in the ground.



### Steel wire mesh

The nominal tensile strength of the wire mesh shall be as indicated in tab. 2.

Test done as per UNI-EN 10223-2.

Punching test done as per UNI-EN 11437.

### Wire

The steel wire used in the manufacture of the wire mesh is Galfan coated (class A) a Zinc-Alluminium%% alloy.

All tests on wire must be performed prior to manufacturing the mesh.

Tensile strength: the wire used for the manufacture of wire mesh shall have a tensile strength between 350-550 N / mm<sup>2</sup> according to UNI-EN 10223-3.

Wire tolerances are in accordance with UNI-EN 10218 (class T1).

Elongation: elongation shall not be less than 8% according to UNI-EN 10223-3.

Test must be performed on a sample of at least 25 cm in length.

Zinc coating: minimum quantities of zinc (tab. 3) meet the requirements of UNI-EN 10244-2.

Adhesion zinc: the adhesion of the zinc coating to the wire must be such that, when the wire is wrapped six turns around a mandrel having four times the diameter of the wire it does not flake or crack when rubbing it with the bare fingers according to UNI-EN 10244.

Resistance to accelerated ageing test: subjected to test in sulphur dioxide environment, according to UNI-EN ISO 6988, the mesh shall not show more than 5% of dark brown rust.



ARRIGO GABBIONI ITALIA S.r.l  
 Via Lago Vecchio, 6  
 23801 Calozziocorte (LC)  
 Tel. 0341/634776  
 Fax 0341/633484  
 CF/P.IVA 0234644016

## TECHNICAL DATA SHEET

GALFAN ARRMAT

BROWN

### TABLES VALUES

Table 1. Sizes of net

W=Width (m)	L=Length (m)
2	50
All dimensions are nominal (Tolerance 0/+1 m of length; ± D of the width)	

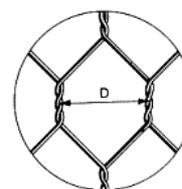
Tabella 3. Tipologie standard dei diametri di filo

		Filo della Maglia	Filo di Bordatura	Filo di Legatura
Diametro filo	Ø mm	3.40	3.90	2.70
Tolleranza filo	± Ø mm	0.07	0.07	0.06
Quantità minima di Galfan	<u>Gr/m<sup>2</sup></u>	265	275	245

Table 2. Standard Mesh-Wire

Type	D (mm)	Tolerance (mm)	Wire Diameter (mm)	Nominal Mesh Tensile Strength (kN/m)
8x10	80	-0/+10mm	3.40	75

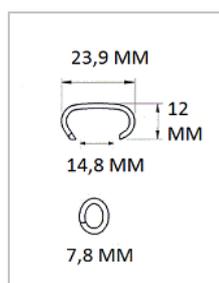
The tolerance on the mesh size "D" is referred to the distance between the axis of two twists according to UNI EN 10223-3



### GEOMAT VALUES

PHYSICAL CHARACTERISTICS	g/mq	10	15	20	
Area mass	mm	300	500	500	EN ISO 9864
Thickness at 2 kPa		10,0	15,0	19,0	EN ISO 9863
MECHANICAL CHARACTERISTICS					
Longitudinal tensile strength MD	KN/m	1,2	1,8	1,8	EN ISO 10319
CMD transversal tensile strength	KN/m	0,3	0,4	0,4	EN ISO 10319
Elongation at max longitudinal loading MD	%	≥ 40	≥ 40	≥ 40	EN ISO 10319
Elongation at max. Transverse load CMD	%	≥ 40	≥ 40	≥ 40	EN ISO 10319

The net is united to the geomat through steel rings.



#### STEEL RINGS

Dimensions: mm 23,9 x 12

Inside diameter closure: 7,8

Wire diameter: 3.00mm



PNEUMATIC TOOL