EUROGRATE

GRATINGS

ticomm & PROMACO

EUROGRATE® FIBERGLASS FENCES

COMPANY WITH QUALITY MANAGEMENT SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =

EUROGRATE

MADE IN ITALY

EUROGRATE® - FIBERGLASS FENCING

Eurograte® FRP (Fiberglass Reinforced Plastic) fences, thanks to their intrinsic properties and the mechanical production process TEKNOTEX®, are an excellent solution to solve maintenance, corrosion, safety and electrical insulation problems and at the same time guarantee a long service life, with considerable economical savings.
Depending on the application and necessity, ticomm & PROMACO supplies several fiberglass fence types which are ideal for most requirements.

Benefits:

- corrosion resistance
- lightweight
- electrical insulation
- maintenance free
- ease of installation
- mass colouring
- no grounding is necessary
- radio transparency

Since 1982 ticomm & PROMACO is dedicated to the research, design and production of fibreglass gratings, handrails, ladders and structures

EUROGRATE® - TECHNICAL SPECIFICATION

Thanks to over thirty years of production experience, Eurograte® composite fences are used successfully in various markets.
The fences are supplied with all the accessories required for a correct and easy installation. The speed, simplicity of installation and easy fabrication on-site, make Eurograte® FRP fences a practical and economical solution, saving precious installation time and money, as well as reducing maintenance costs over many years.

Market sectors:

- airports
- architectural
- chemical plants
- desalination
- electrical - solar energy
- mass transit
- marine - offshore
- railway
- telecommunication
- water treatment

SPECIFICATIONS

CONCEPT

Product made in the EU (Italy), the grating must be manufactured in a single moulding process (monolithic product) using continuous pre-tensioned and pre-impregnated glass fiber roving strands, thoroughly wetted with a chemical resistant polyester, orthophthalic, isophthalic or vinyl ester halogen-free fire retardant resin system. All the phases of the production process must be managed by a PLC system which assures electronic control during the moulding phase, keeping the right mixing ratio of the resin and a constant tension in the glass fibers, avoiding any type of error that could be made during a manual process (worker).
The mechanical interweaving process must assure an even distribution of the glass fibers within the mould and allow the resin to penetrate within the glass fiber strands assuring a complete wet-out of the fibers. Other weaving technologies, such as manual moulding or RTM systems (injection) are not accepted as they are not able to assure a complete wet-out of the glass fiber strands when using fire retardant "halogen free" resin systems which are typically quite dense and viscous and therefore difficult to process.

FIRE RETARDANT

EUROGRATE® FRP gratings are fire retardant classified Bfl-s1 according to EN 13501-1: 2007 European Norm, M2 according to AFNOR NF-P92501 norm, class 1 (F.S.I. <25) according to ASTM E-84 norm, 100 according to ENEL DS 4974 norm. EUROGRATE® FRP gratings have low emission and low smoke toxicity (halogen-free) classified F1 according to NF F 16-101, NF X 70-100, STM-S-001, class 1 (S.D.I. <450) according to ASTM E-84 norm.

ENVIRONMENTAL EXPOSURE BEHAVIOUR:

Products, tested according to ASTM G53 norm, must not show significant changes in mechanical resistance after a 1000 hours accelerated aging, UVB irradiation and water condensation/evaporation cycles.

COLOUR:

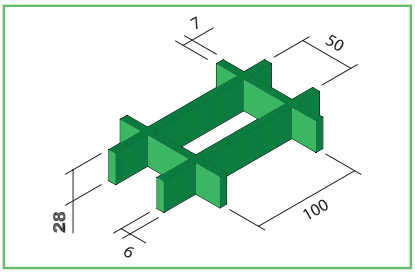
Standard available colours are Grey Ral 7004 and Green Ral 6001.

SUPPORT BEAMS:

The FRP supporting beams, with the same composition of the gratings, do not conduct electricity and do not require “grounding”. They can be embedded directly in the concrete or fixed with appropriate fixing bases.

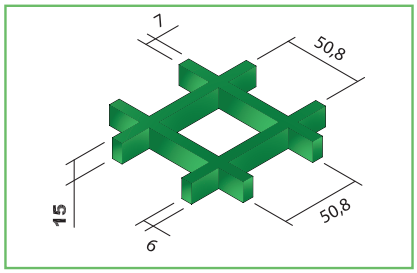
EUROGRATE® - AVAILABILITY

Mesh 100x50 h 28 mm



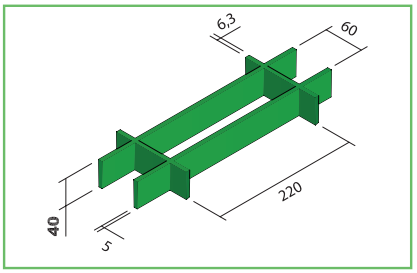
IC-10.07A0.30000

Mesh 50x50 h 15 mm



IC-22.09A0.30000

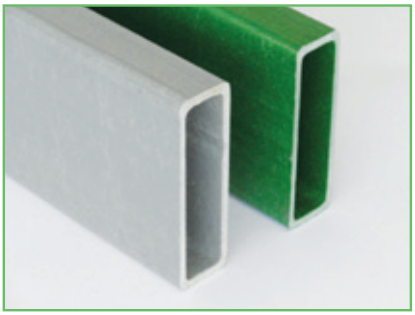
Mesh 220x60 h 40 mm



IC-16.08A0.30000

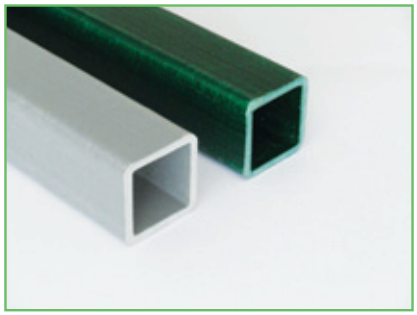
CODE	SECTION	DIMENSION	WEIGHT	COLOUR	APPLICATION
IC-10.07A0.30000	Mesh 100x50 h 28 mm	1500x2000 mm	9,5 kg/m²	green/grey	Standard
IC-22.09A0.30000	Mesh 50x50 h 15 mm	1220x1530 mm	5,8 kg/m²	green/grey	Standard
IC-16.08A0.30000	Mesh 220x60 h 40 mm	1550x2016 mm	9,0 kg/m²	green/grey	On demand

Section 85x25 mm



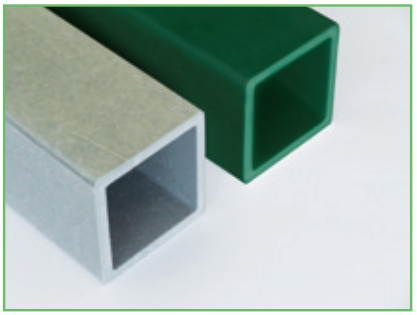
R-08506010

Section 50x50 mm



Q-05006010

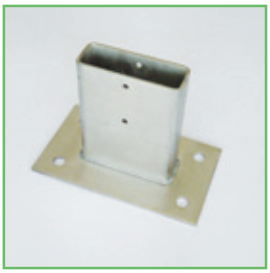
Section 90x90 mm



Q-09006010

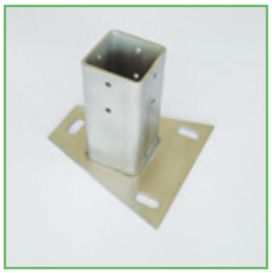
CODE	SECTION	DIMENSION	WEIGHT	COLOUR	LENGTH	APPLICATION
R-08506010	Rectangular support	85x25x4x3 mm	1,17 kg/m	green/grey	Standard 6000 mm	Standard
Q-05006010	Square support	50x50x5x5 mm	1,53 kg/m	green/grey	Standard 6000 mm	On demand
Q-09006010	Square support	90x90x8x8 mm	4,50 kg/m	green/grey	Standard 6000 mm	On demand

S.S. fixing base



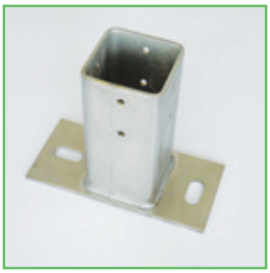
A-BASE05

S.S. fixing base



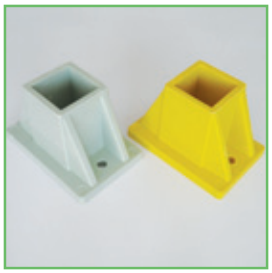
A-BASE03

S.S. fixing base



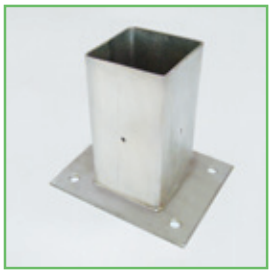
A-BASE02

FRP fixing base



A-BASEI2

S.S. fixing base



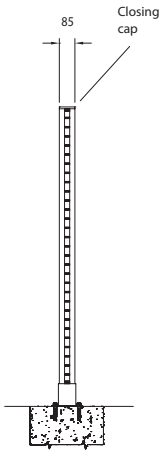
A-BASE06

CODE	SECTION	DIMENSION	WEIGHT	USE	MATERIAL
A-BASE05	Rectangular base 4 holes	100x170 th. 3 mm	1,40 kg	Rectangular beam 85x25 mm	AISI 304 / 316
A-BASE03	Trapezoidal base 3 holes	150x150 th. 3 mm	0,90 kg	Square beam 50x50 mm	AISI 304 / 316
A-BASE02	Rectangular base 2 holes	70x150 th. 3 mm	0,80 kg	Square beam 50x50 mm	AISI 304 / 316
A-BASEI2	FRP Rectangular base 2/3 holes	100x150 th. 14 mm	0,83 kg	Square beam 50x50 mm	FRP isophthalic
A-BASE06	Rectangular base 4 holes	200x160 th. 4 mm	2,60 kg	Square beam 90x90 mm	AISI 304 / 316

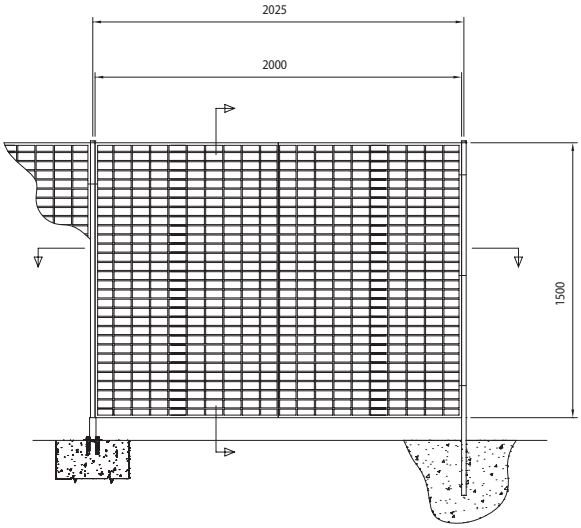
Fences with different mesh and sizes on demand.

EUROGRATE® - MESH 100x50 h 28 mm

LATERAL SECTION

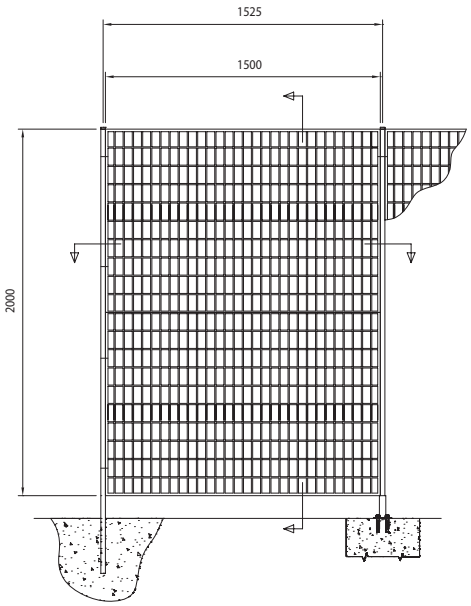


FRONT VIEW



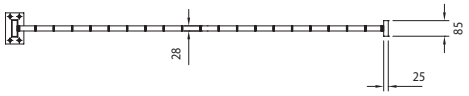
HORIZONTAL FENCE

FRONT VIEW

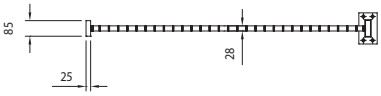


VERTICAL FENCE

TOP SECTION



TOP SECTION



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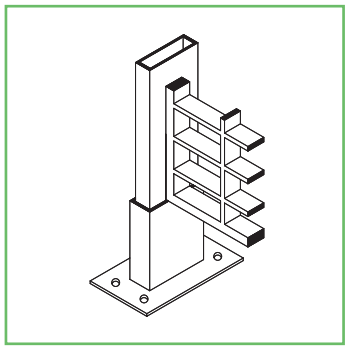
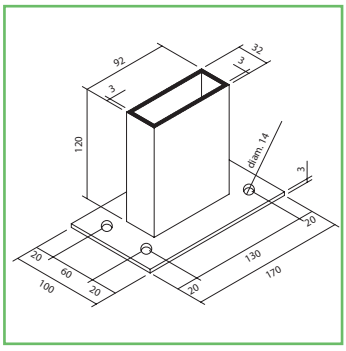
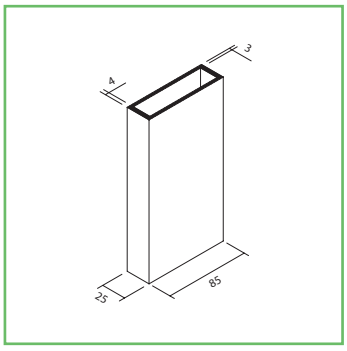


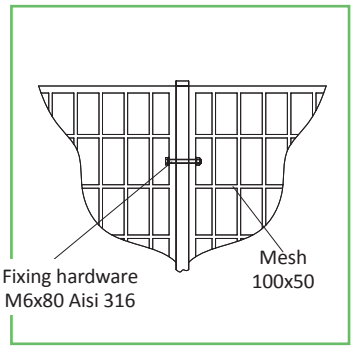
FIXING BASE DETAIL



SUPPORT SECTION



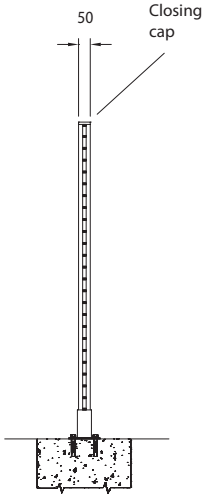
ASSEMBLY DETAIL



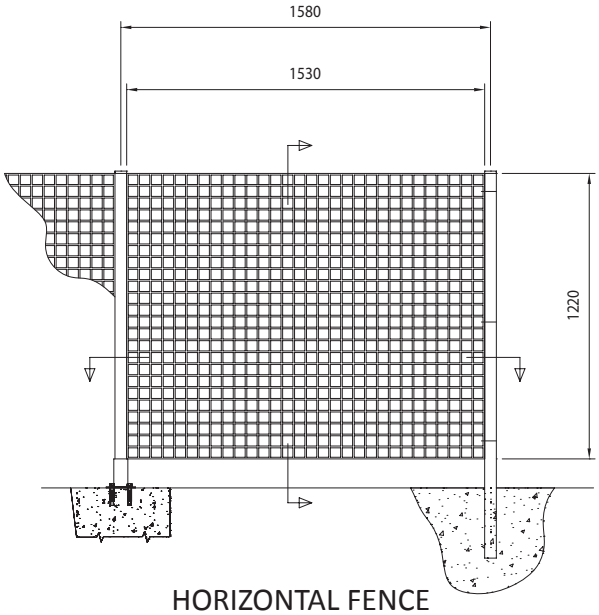
CODE	SECTION	DIMENSION	WEIGHT	COLOUR/USE	MATERIAL
IC-10.07A0.30000	Mesh 100x50 h 28 mm	1500x2000 mm	9,5 kg/m²	green Ral 6001 / grey Ral 7004	FRP
IC-10.07A0.30000	Mesh 100x50 h 28 mm	2000x1500 mm	9,5 kg/m²	green Ral 6001 / grey Ral 7004	FRP
R-08506010	Rectangular support beam	80x25x4x3 mm	1,17 kg/m	green Ral 6010 / grey Ral 7035	FRP
A-BASE05	Rectangular base 4 holes	100x170 th. 3 mm	1,40 kg	rectangular support 85x25 mm	AISI 304 / 316
-	Fixing hardware	M 6x80	-	grating to support fixing	AISI 304 / 316

EUROGRATE® - MESH 50x50 h 15 mm

LATERAL SECTION

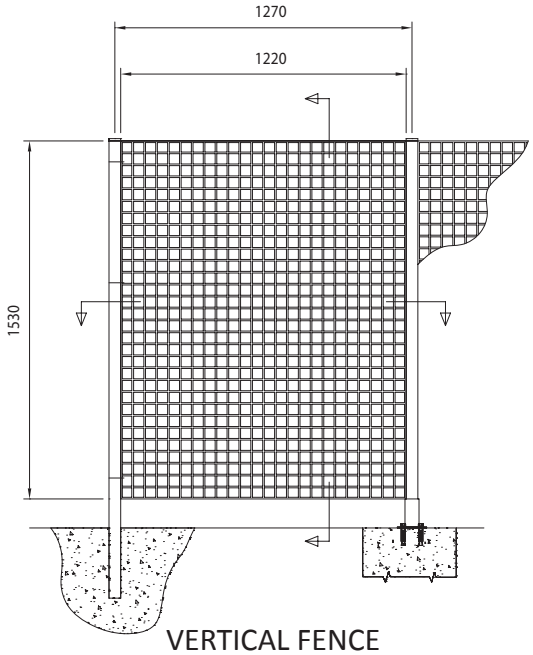


FRONT VIEW



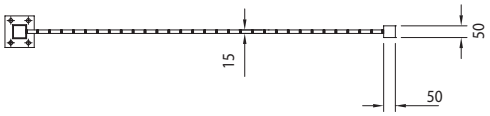
HORIZONTAL FENCE

FRONT VIEW



VERTICAL FENCE

TOP SECTION



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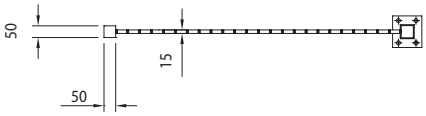

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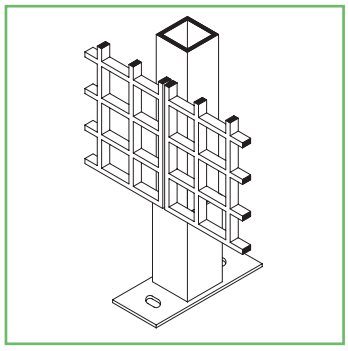
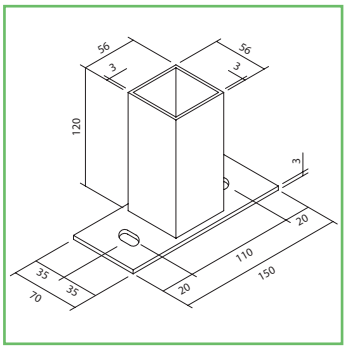
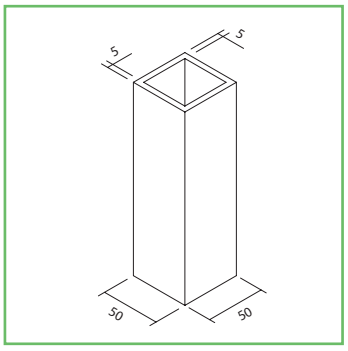


FIXING BASE DETAIL



SUPPORT SECTION



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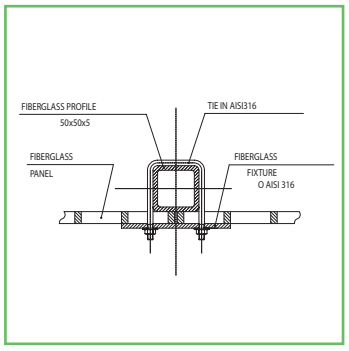
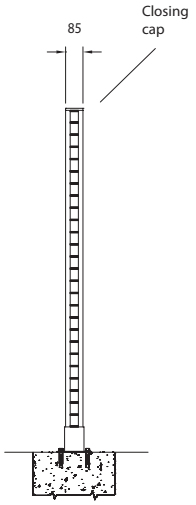


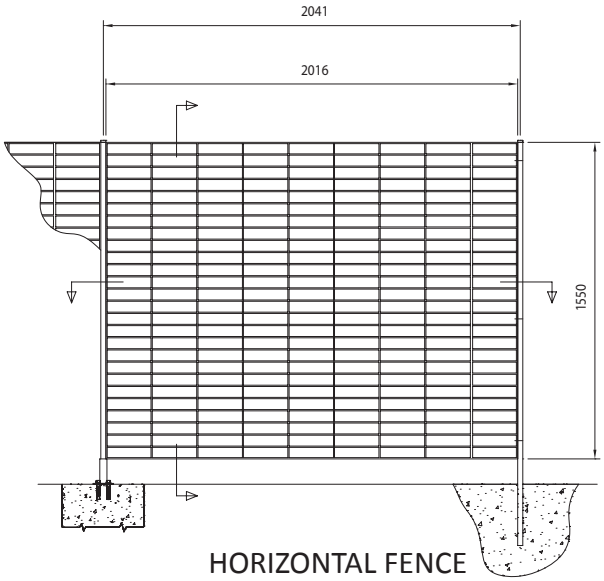
CODE	SECTION	DIMENSION	WEIGHT	COLOUR/USE	MATERIAL
IC-22.09A0.30000	Mesh 50x50 h 15 mm	1220x1530 mm	5,8 kg/m²	green Ral 6001 / grey Ral 7004	FRP
IC-22.09A0.30000	Mesh 50x50 h 15 mm	1530x1220 mm	5,8 kg/m²	green Ral 6001 / grey Ral 7004	FRP
Q-05006010	Square support beam	50x50x5x5 mm	1,53 kg/m	green Ral 6010 / grey Ral 7035	FRP
A-BASE02	Rectangular base 2 holes	70x150 sp. 3 mm	0,80 kg	square support 50x50 mm	AISI 304 / 316
-	Fixing hardware	"U" bolt M 6x240	-	grating to support fixing	AISI 304 / 316

EUROGRATE® - MESH 220x60 h 40 mm

LATERAL SECTION

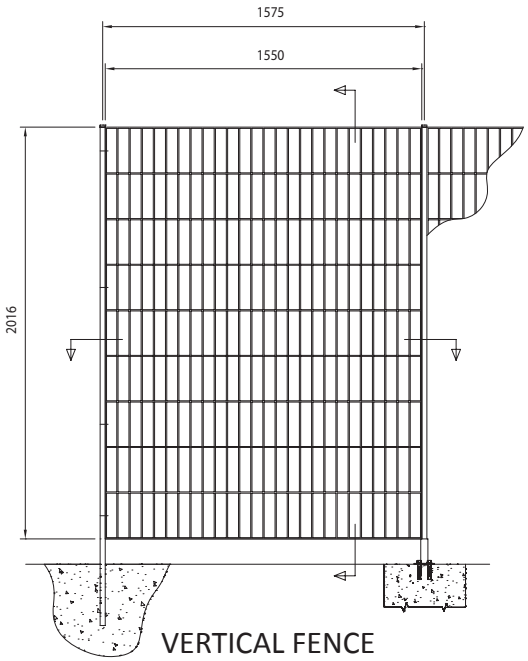


FRONT VIEW



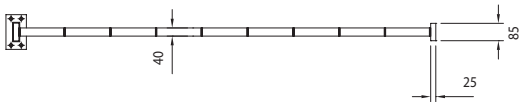
HORIZONTAL FENCE

FRONT VIEW

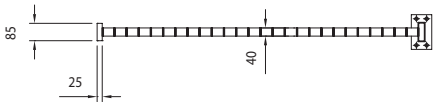


VERTICAL FENCE

TOP SECTION



TOP SECTION



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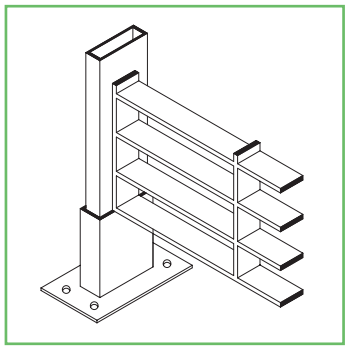
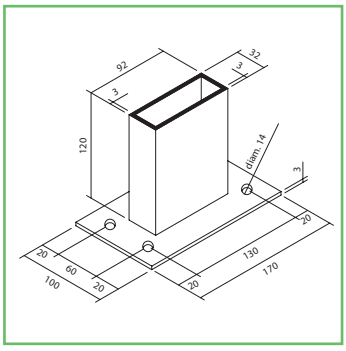
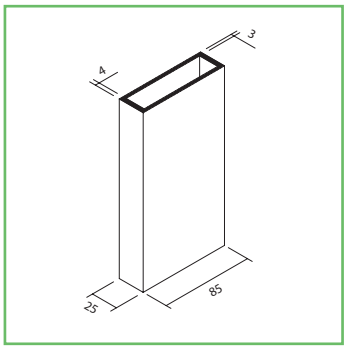


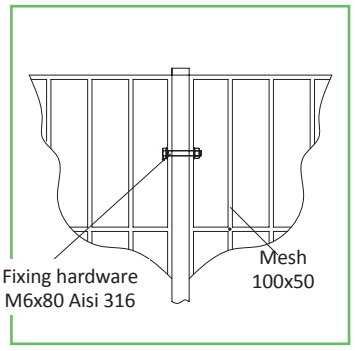
FIXING BASE DETAIL



SUPPORT SECTION



ASSEMBLY DETAIL



CODE	SECTION	DIMENSION	WEIGHT	COLOUR/USE	MATERIAL
IC-16.08A0.30000	Mesh 220x60 h 40 mm	1550x2016 mm	9 kg/m²	green Ral 6001 / grey Ral 7004	FRP
IC-16.08A0.30000	Mesh 220x60 h 40 mm	2016x1550 mm	9 kg/m²	green Ral 6001 / grey Ral 7004	FRP
R-08506010	Rectangular support	85x25x4x3 mm	1,17 kg/m	green Ral 6010 / grey Ral 7035	FRP
A-BASE05	Rectangular base 4 holes	100x170 sp. 3 mm	1,40 kg	square support 85x25 mm	AISI 304 / 316
-	Fixing hardware	M 6x80	-	grating to support fixing	AISI 304 / 316

03ENG/12

Eurograte® is a registered mark and manufactured by:
ticomm & PROMACO s.r.l.

20064 Gorgonzola (Mi) - ITALY
Via Parini, 111/e
Tel. +39 02 95091.1
Fax +39 02 9514897

E-mail: info@eurograte.com
Internet: www.eurograte.com