



# General Catalogue

Welded mesh, grating and fencing





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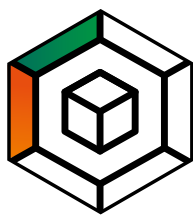
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# Nuova Defim Orsogrìl

NUOVA DEFIM ORSOGRIL offers wire and grating mesh systems of excellent quality and design to the national and international markets.



## All the solutions you are looking for from one single company

We are the only European manufacturer able to offer wire and grating mesh systems Orsogrìl branded, combining tradition to advanced techniques, ensuring a service that meets steel and construction industry expectations. Part of Feralpi Group, Nuova Defim Orsogrìl specializes in fencing projects for major public works, residential developments, sports facilities and maximum-security areas.



## Quality and service always at the top

Before and after sales service high care level, supported by a design office of excellence, emphasize the offered solutions quality and design; close cooperation with architects and engineers, a well-furnished stock and wide warehouses are a guarantee for accounts in need of a unique product range offer.



## Research and Innovation for today and tomorrow's market

The search to achieve products and processes continuous improvement is the technological development core between the activities carried out at Nuova Defim Orsogrìl. The company's main aim is to devise and implement new solutions to meet the domestic and foreign markets needs technically, functionally and aesthetically and to comply with the norms in force, possibly innovating them.



2 working sites

km  
of fencing / year

450

steel  
tons / year

24.000





"The only way to do  
great work  
is to love what you do"

Steve Jobs

- 1 collaboration with the customers  
to find the best solution in terms of  
technique and materials
- 2 use of top quality  
raw materials
- 3 production of excellence with systems  
that are always fine tuned and developed  
in line with the needs of the customer
- 4 in-process checks  
and quality control
- 5 precise and on-time  
deliveries
- 6 technical support  
for every need

# Quality

Quality care is extremely important for NUOVA DEFIM ORSOGRIL;  
in fact being **UNI EN ISO 9001/2008** Quality System approved, the  
company pursues continuous technical and organisational update to  
ensure the preservation of high quality standards. **In accordance to the  
European Construction Product Regulation, the company is offering  
CE marked horizontal grating systems** and implements strict checks  
throughout the entire production process, from the products manufacturing  
to the after-sale assistance to guarantee excellent performances.



horizontal grating  
only CE marking



## Welded **mesh**

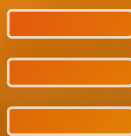
Versatility for countless applications

NUOVA DEFIM ORSOGRIL is a leading welded mesh manufacturer for countless industrial applications in various sectors and for different scopes. The offer includes both standard panels (made by self-colour, hot-dip galvanised and stainless steel wire) and tailored welded mesh which use is increasingly growing in both industrial and building sectors. Due to the in house fleet of modern machinery, the Company responds quickly and easily to the growing market demands; the structure is organized to manufacture big projects using automatic equipment and small lots of meshes with less-automated welding lines. Working in closer partnership with its customers, Nuova Defim supports their production processes with the supply of semi-finished goods, realized according to product specifications.

**200** mesh panels types always ready from stock

**15** raw materials quality

**9** finishes available



## Grating

Design and functionality

NUOVA DEFIM ORSOGRIL manufactures a wide range of flooring gratings for architectural and industrial applications, in order to achieve the excellence in quality and design irrespective of whether is dealing with a standard or a customized grating product for the building market or the industry.

The product quality and service are guaranteed at all levels from a company that marked the history of grating in Italy and constantly reinterpreted it with the innovative and cutting-edge attitude that has characterised the Feralpi Group since its origins.

**150** product types

**10** raw materials quality

**5** finishes available



## Fencing

Tradition and new horizons

World leader in the production of quality fencing panels, NUOVA DEFIM ORSOGRIL offers robust modular systems combining design to reliability. Being the only European manufacturer offering both welded wire and grating fences, Nuova Defim grants to its customers the widest product range available in the market, enriched by a technological research unifying sturdiness and electronics in order to pass the current safety standards. Nuova Defim Orsogrill fence systems are leaders of many industrial and architectural projects providing a high security factor and a perfect integration of the product in the landscape where they are installed.

Safety, elegance, privacy, colours, appearances including old fashioned look, are only some characteristics of an offer that has recently included a new solutions in COR-TEN steel ideal for façade cladding louvered systems.

**25** fencing types

**30** registered patents and trademarks

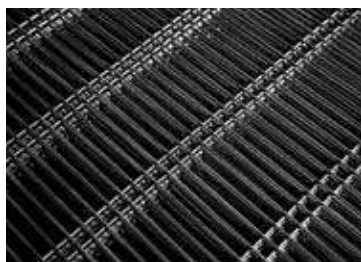






# x Welded mesh

Versatility for countless applications



Download



**WELDED  
MESH**

[http://www.nuovadefim.com/it/content/  
download-area](http://www.nuovadefim.com/it/content/download-area)



**TAILORED\_** P. 10  
DEFIM MESH®

**STANDARD\_** P. 12  
DEFIM STD®  
ARMEDIL®

**ROLLS\_** P. 14  
DEFIM ROLL®  
DEFIM PLAST

**BESPOKE\_** P. 16  
GABION MESH  
DEFIM PIPE®



# DEFIM MESH®

Welded mesh is becoming the industrial and building markets protagonist for several applications.

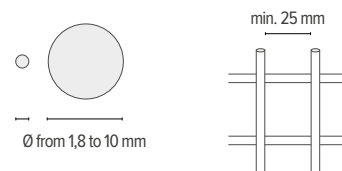
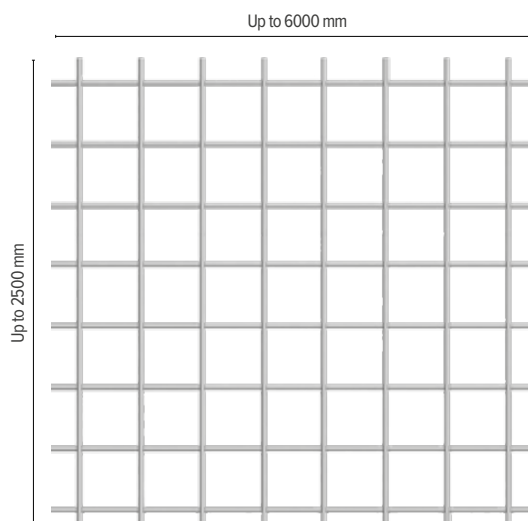
NUOVA DEFIM, turns each supply into a solution specially targeted to meet specific customer requirements thanks to its extensive experience and to its fine tuned organisation supported by a design office of excellence.

## APPLICATIONS

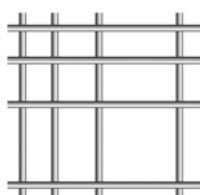
- > Rigid mesh for metal beds
- > Fan grilles
- > Benches
- > Containers
- > Animal enclosures
- > Cable trays
- > Plasterwork sub-frame
- > Overpass fencing
- > Foundations and anti-cracking mesh
- > Special structural work
- > Mesh for the food industry
- > Machine guards systems
- > Fencing

## FINISH

- > Self-colour
- > Hot-dip galvanized
- > Zinc-aluminium galvanized
- > Stainless steel
- > Powder coated
- > Copper washed

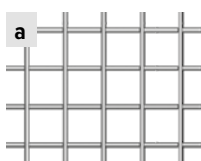


Wires with different diameters  
Minimum c/c mesh square opening is 25 mm



## DIFFERENT MESH SIZE

It is available horizontal and vertical multi-mesh pattern in the same panel upon request, with max 2 different wire diameters both directions.

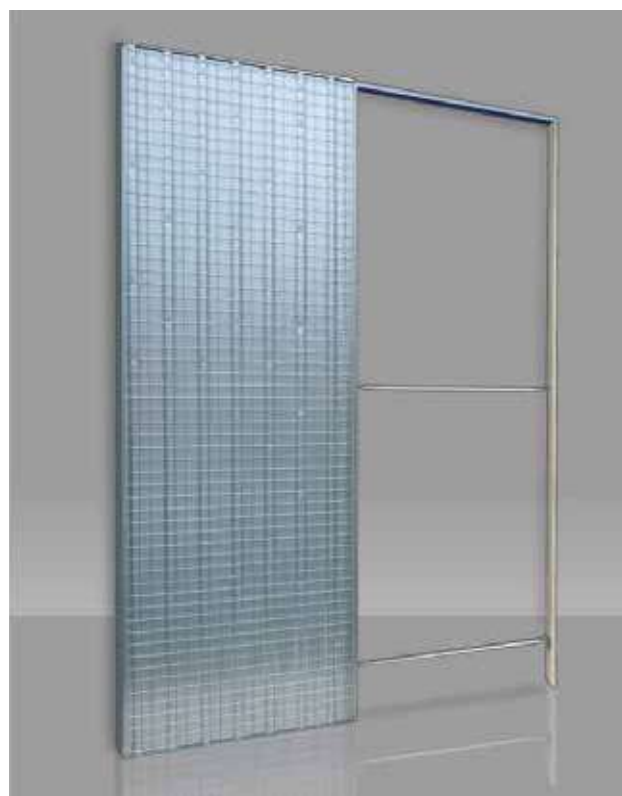


## EDGES FINISH

Different types of finish are available, depending on the specific applications: open with spikes, flush, tapered.



- a\_ wire mesh panel with open edge
- b\_ wire mesh panel with flush edges
- c\_ wire mesh panels with tapered edges



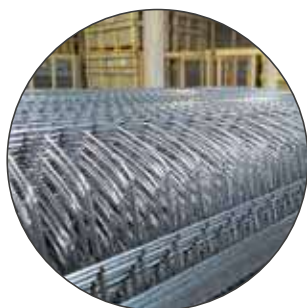


## ADDITIONAL SERVICES

The versatility in offering solutions is completed by the post-production finishing department (bending, cutting and other operations) that integrates its experience with the customer's production process and offers specific skills, building up a relationship based on industrial cooperation targeted to develop original solutions, rather than being a mere customer/supplier link.



Example of bent mesh



Mesh bending



Mesh bending automation



Bespoke mesh





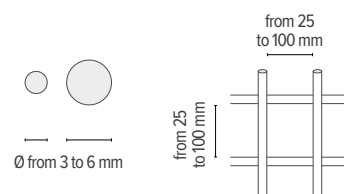
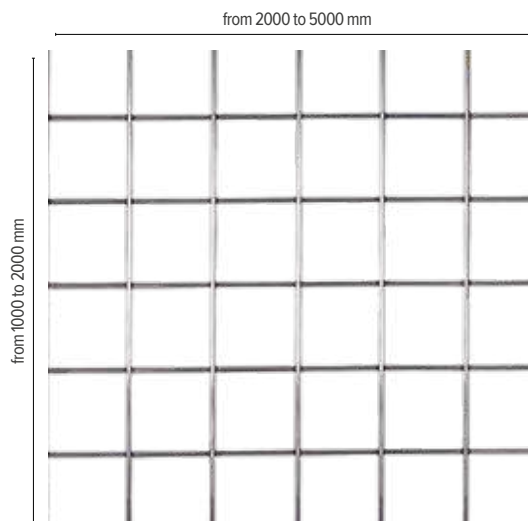


# DEFIM STANDARD®

Standard production includes welded mesh panels made by self-colour, hot-dip galvanized and stainless steel wires with diameters ranging from 3 to 6 mm, mesh aperture from 25x25 mm to 100x100 mm and panel sizes from 1000x2000 mm to 1600x5000 mm (selected patterns only). The wide stock available, unique on the market for variety and quantity, is a guarantee of prompt, efficient service.

## APPLICATIONS

- > Structural steel works
- > Steel stockholders
- > Building materials
- > Manufacturing industry
- > Blacksmiths
- > Metalworking

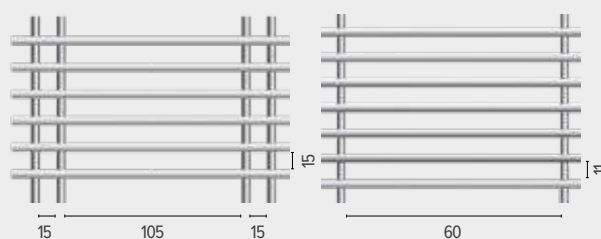


Different types of finish are available depending on panel size: blank (self-colour), pre-galvanized, stainless steel AISI 304.

MESH			WIRE			DIMENSIONS			FINISH		
H	L	Ø	H	L	Weight	H	L	Weight	Blank (self colour)	Pre-galvanized	Stainless Steel AISI 304
mm	mm	mm	mm	mm	kg/m²	mm	mm	kg/m²			
25	25	3	1225	2000	5,60				■	■	
30	30	3	1000	2000	3,43				■		■
30	30	3	1200	2400	3,43				■	■	
40	40	3	1000	2000	2,60						■
40	40	3	1200	2400	2,60				■		■
40	40	4	1000	2000	4,70				■		
40	40	4	1200	2400	4,70				■	■	
40	40	4	1600	2000	4,70				■	■	
50	50	3	1000	2000	2,08				■		
50	50	3	1200	2400	2,08				■		■
50	50	4	1000	2000	3,76				■	■	■
50	50	4	1200	2400	3,76				■	■	■
50	50	4	1600	2000	3,76				■	■	
50	50	4	1600	5000	3,76				■	■	
50	50	4	2000	2500	3,76				■		
50	50	5	1000	2000	5,68				■		
50	50	5	1200	2400	5,68				■		
50	25	3/4	2000	2500	3,56				■	■	
100	100	4	1200	2400	1,88				■		
100	100	5	1200	2400	2,84				■		
100	100	6	1200	2400	4,14				■		
100	100	6	1600	2000	4,14				■		
100	50	4	2000	2500	2,82				■	■	
100	50	6	1000	2000	6,21				■		
100	50	6	1600	2000	6,21				■	■	

## DEFIM™ SAFETY MESH

TEC 15+105x15 finger-proof and RT 60x11 phalanx-proof wire meshes are designed to realize moving elements protection, in compliance with national and international safety standards.



TEC safety wire mesh

RT safety wire mesh

MESH			WIRE			DIMENSIONS			FINISH		
H	L	Ø	H	L	Weight	H	L	Weight	Polished (self colour)	Pre-galvanized	Stainless Steel AISI 304
mm	mm	mm	mm	mm	kg/m²	mm	mm	kg/m²			
TEC	3	1000	2000	4,27							■
TEC	3	1240	2400	4,27					■	■	■
RT 60	11	3	1200	2400	5,46				■	■	



ARMEDIL® electro-welded wire mesh has been studied to solve the concrete blocks cracking issues. The range includes different mesh patterns for all requirements, from the standard types (Armedil and Armedil Light) to the ones for more professional and technical applications in wire diameters 3, 4 and 6 mm.

**ARMEDIL®** - nominal wire diameter is 1.8 mm: this is the classic anti-crack wire mesh for those requiring a product with superior characteristics.

**ARMEDIL® LIGHT** - nominal wire diameter is 1.5 mm: same quality as ARMEDIL®, but made by a different wire diameter and studied to be more competitive for large surfaces projects.

## APPLICATIONS

- > Quick-setting concrete
- > Underfloor
- > Vertical plasterwork
- > Heated floors

## FORMATS

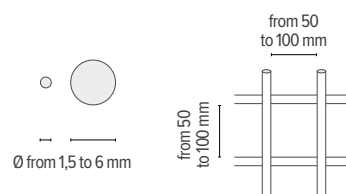
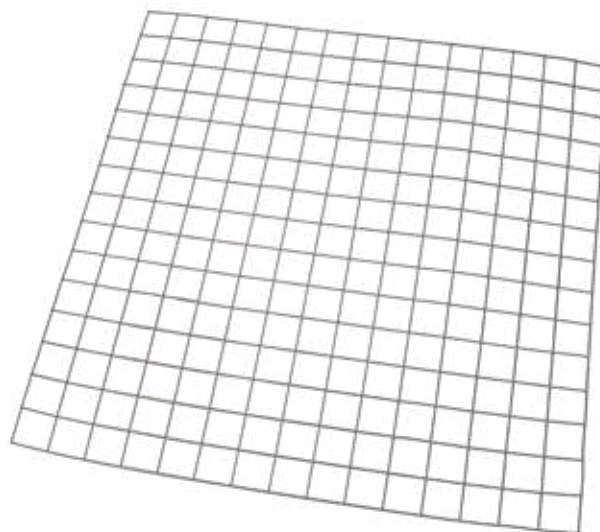
In the range are available with 100x100 mm aperture, 3, 4, and 6 mm wire diameters, 2000x2000 mm panel dimension (3 and 4 mm wire diameters) and 1600x2000 (6 mm wire diameters), all hot-dip galvanised in accordance with UNI EN 10244-2.



For heated floors



Example of installation



Available in different panel heights ranging from 1000 to 2000 mm.

MESH		WIRE	DIMENSIONS	
H	L	Ø (nominal)	H	L
mm	mm	mm	mm	mm
50	50*	1,5	1000	2000
50	50*	1,8	1000	2000
50	50**	3	1000	2000
100	100**	3	2000	2000
100	100**	4	2000	2000
100	100**	6	1600	2000

\* nominal wire diameter

\*\* galvanizing certificate / panel with overhangs





Mesh rolls made of 1.70 mm diameter pre-galvanised wire; mesh size 57x76 mm, length 25 m. Supplied on pallets in lots of 12 rolls.

**APPLICATIONS**

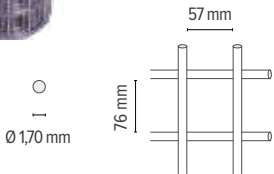
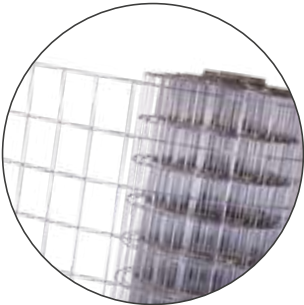
- > Gardens/country fields
- > Animal enclosures
- > DIY applications
- > Construction

**FINISH**

- > Class "D" galvanising, according to UNI EN 10244-2 norm

**PRODUCT SPECIFICATIONS**

Welded pre-galvanized mesh made of Ø 1.7 mm wire, according to UNI EN 10244-2 norm, supplied in 25 m rolls, mesh size 57x76 mm with flash ends.



Wire centre distance measurements.

MESH			WIRE			ROLL - DIMENSIONS		
H	L		Ø			H (nominal)	L	Rolls for pallet
mm	mm		mm			mm	m	mm
76	57		1,70			1000	25	12
76	57		1,70			1200	25	12
76	57		1,70			1500	25	12
76	57		1,70			1800	25	12
76	57		1,70			2000	25	12







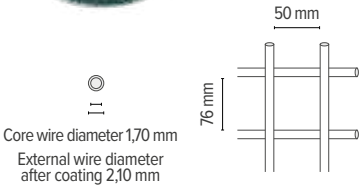
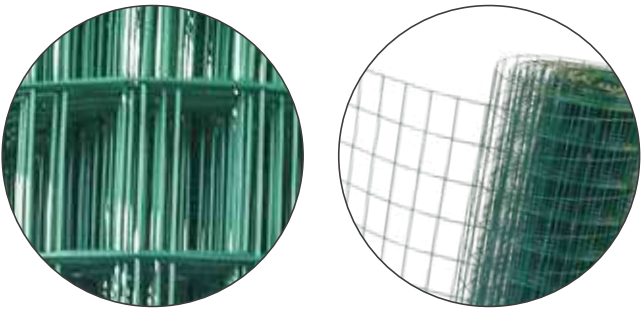
Mesh rolls made of 2.10/1.70 mm diameter galvanized and plastic-coated wire; mesh size 50x76 mm, length 25 m. Supplied on pallets in lots of 12 rolls.

APPLICATIONS

- > Gardens/country fields
- > Animal enclosures
- > DIY applications
- > Construction

PRODUCT SPECIFICATIONS

Welded pre-galvanized and plastic-coated mesh made of Ø 1.7 / 2.10 mm wire, supplied in 25 m rolls, mesh size 50x76 mm with flush ends.



Standard height 1000 to 2000 mm.

MESH		WIRE	ROLL - DIMENSIONS		
H	L	Ø	H (nominal)	L	Rolls per pallet
mm	mm	mm	mm	m	mm
76	50	2,10 / 1,70	1000	25	12
76	50	2,10 / 1,70	1200	25	12
76	50	2,10 / 1,70	1500	25	12
76	50	2,10 / 1,70	1800	25	12
76	50	2,10 / 1,70	2000	25	12





# GABION MESH

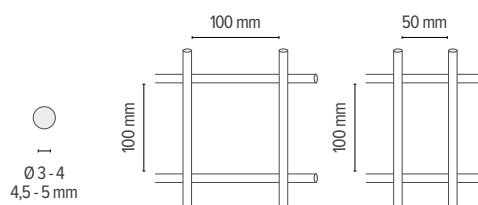
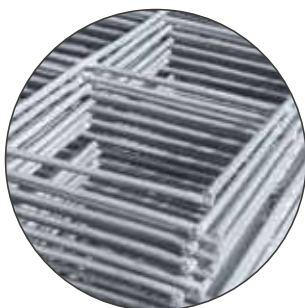
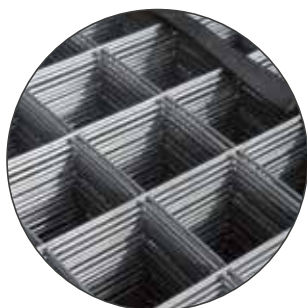
Not just functional but increasingly design components, welded mesh GABIONS are a multi-purpose quick and modern landscape solution. Their effectiveness is confirmed by NUOVA DEFIM ORSOGRIL mesh panels, available from stock, in different sizes with 3" x 3" aperture and wire diameters 3, 4, and 5 mm; finish Zinc aluminium class A (UNI EN 10244-2). Available on request also panels with 100x100 mm and 100x50 mm mesh sizes, wire 3, 4, 4.5 and 5 mm wire diameters.

## APPLICATIONS

- > Military boundaries
- > Retaining walls
- > Flood control
- > Landscaping
- > Fencing

## FINISH

- > Zinc-aluminium coating
- > Class "A" heavy galvanizing according to UNI EN 10244-2
- > COR-TEN



3"x3" mesh with zinc-aluminium or heavy galvanizing finish.





# DEFIM PIPE®

Download



Designed for the oil & gas markets, DEFIM PIPE® is the peculiar “crimped” mesh manufactured in rolls, used to allow the adhesion between the concrete and the pipelines, in order to keep them heavy and steady underwater.

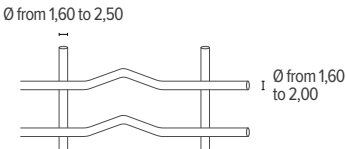
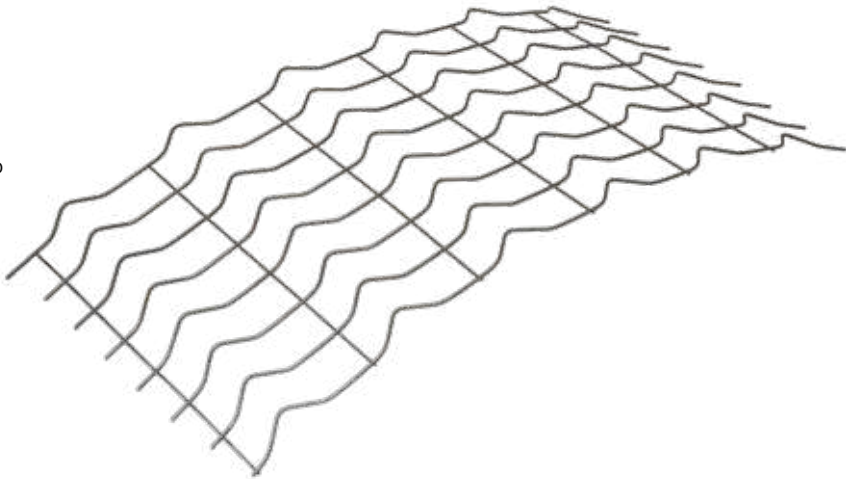
Many years of activity have enabled NUOVA DEFIM ORSOGRIL to specialise in the production of welded wire mesh for various high-tech applications, including the oil and gas industry.

### APPLICATIONS

- > Underwater gas pipelines
- > Underwater oil pipelines
- > Underwater power line

### FINISH

- > Galvanizing according to ASTM A 641/A 641/M



The welded mesh is deeper crimped to improve concrete adhesion.

TYPE	WIRE		ROLL - DIMENSIONS	
	Ø longitudinal	Ø cross wire	L	Weight
	mm	mm	mm	+/- kg
1,60 / 1,60	1,60	1,60	230	42,5
2,00 / 2,00	2,00	2,00	160	46,5
2,50 / 2,00	2,50	2,00	125	52,0

The table above summarize DEFIM PIPE® standard characteristics.  
Manufactured according to ASTM A 82-02, ASTM A 185-02, ASTM A641/A 641/M.







# ≡ Grating

Design and functionality



Download



**GRATING**

[http://www.nuovadefim.com/it/content/  
download-area](http://www.nuovadefim.com/it/content/download-area)



**CE** CE Certified  
NR 0948-CPR-0287

**POTISSIMUM**  
**ELECTRO-WELDED** \_ P. 20  
POTISSIMUM® FOR RESIDENTIAL APPLICATIONS  
POTISSIMUM® INDUSTRY

**BARROTTO** \_ P. 22  
BARROTTO ANTIQUUM®

**UTILIOR PRESS-LOCKED** \_ P. 23  
UTILIOR®

**GRATING STAIR TREADS** \_ P. 24  
STANDARD GRATING STAIR TREADS®  
ANTIVERTIGO SYSTEM®



# POTISSIMUM® FOR RESIDENTIAL APPLICATIONS

Thanks to its special manufacturing process, POTISSIMUM® residential electro-welded steel grating system offers exceptional sturdiness combined with a great aesthetic value. With its wide range of ready from stock mesh sizes, it can respond to every need and situation, mainly for residential buildings. Tailored, framed and shaped grating panels are realized to complete from the simplest, to the more complex project with the support of our unique in-house technical office, assisting the customers at the design stage to provide the most economic and appropriate solutions. Both the standard semi-finished grating mats called GEA, sized 6100x1000mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).



NR 0948-CPR-0287



## TECHNICAL DETAILS

### Material

> S235JR UNI EN 10025 Steel

### Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

### Painting

> RAL colours

### Accessories

> Fixing clips > see page 68

## APPLICATIONS

- > Walkways
- > Stair treads
- > Light grilles
- > Drain covers
- > Open steel flooring
- > Mezzanines

## PRODUCT SPECIFICATIONS

ORSOGRIL POTISSIMUM® RESIDENTIAL electro-welded grating - GES Cut-to-size framed panels (bearing bar - mesh)

Mesh mm: 11/15/22/25 x ...

Bearing flat bar mm: ...

Round cross bar Ø mm: .....

Edges framing flat bar, .... mm with continuous groove, forge-welded to the grating (on regular squared panels)

Weight kg/m²: ...

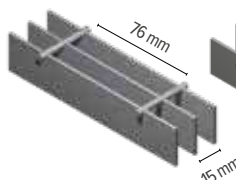
Material: S235JR UNI EN 10025

Steel Finish: hot-dip galvanizing, according to UNI EN ISO 1461

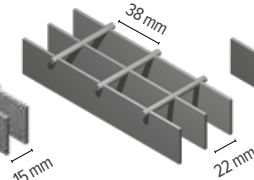
AGLAIA fixing clip for .... mm mesh - bottom or top fixing

CE certified (Ref. Factory Manufacturing Control Certificate 0948-CPR-0287)

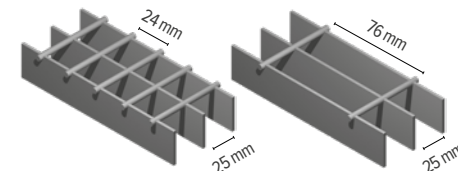
### HEEL PROOF



### BALL PROOF



### BUILDING



BEARING BAR			CROSS BAR DIRECTION	No. bearing bars	HEEL PROOF	BALL PROOF		BUILDING	
H	S	L			Mesh				
mm	mm	mm				kg/m²	kg/m²	kg/m²	
25	2	998		67	15x76	25,2	-	18,0	18,4
30	2	998		47	22x38	30,1	-	21,5	18,9
40	2	998		47	22x76	40,1	-	-	25,0
25	3	999		41	25x24	38,1	-	-	23,6
30	3	999		41	25x76	45,7	-	32,2*	28,2
40	3	999				61,0	-	-	37,6
50	3	999				76,2	-	-	46,9
60	3	999				92,4	-	-	57,1
70	3	999				107,8	-	-	66,5
80	3	999				123,2	-	-	-
40	4	1000				-	-	57,6	50,4
50	4	1000				-	-	72,0	63,0
60	4	1000				-	-	87,2	76,3
70	4	1000				-	-	101,8	89,0

GEA MAT SIZE 6100X1000 mm, (UNFRAMED – SELF COLOURED)

\*offered also with serrated bearing bar

Weights (kg/m²) are theoretical and subject to dimensional tolerances of raw materials

(page 16 of UNI 11002, Point 5.3, Prospect 1)







# POTISSIMUM® INDUSTRY

Thanks to its special manufacturing process, POTISSIMUM® industrial electro-welded steel grating system offers exceptional sturdiness combined with a great versatility. With its wide range of ready from stock mesh sizes, it can respond to every need and situation, mainly for industrial applications. Tailored, framed and shaped grating panels are realized to complete from the simplest, to the more complex project with the support of our unique in-house technical office, assisting the customers at the design stage to provide the most economic and appropriate solutions.

Both the standard semi-finished grating mats called GEA, sized 6100x1000mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).

## TECHNICAL DETAILS

### Material

> S235 JR UNI EN 10025 Steel

### Coating

> Hot-dip galvanizing according to  
UNI EN ISO 1461

### Painting

> RAL colours

### Accessories

> Fixing clips > see page 68

## APPLICATIONS

- > Walkways
- > Stair treads
- > Drain covers
- > Industrial floors
- > Mezzanines

## PRODUCT SPECIFICATIONS

ORSOGRIL POTISSIMUM® industrial electro-welded grating - GES Cut-to-size framed panels (bearing bar - mesh)

Mesh mm: 30/34 x ...

Bearing flat bar mm: ...

Twisted square cross bar mm: .....

Edges framing flat bar, .... mm with continuous groove, forge-welded to the grating (on regular squared panels)

Weight kg/m<sup>2</sup>: ...

Material: S235JR UNI EN 10025 Steel

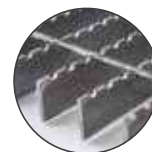
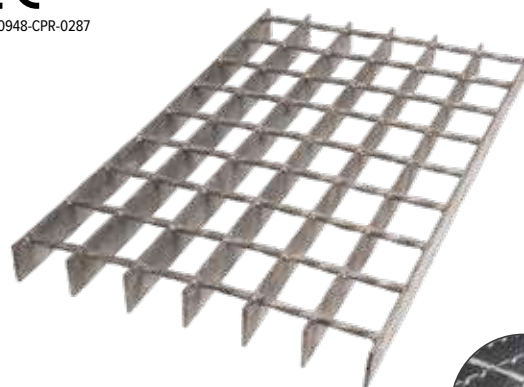
Finish: hot-dip galvanizing, according to  
UNI EN ISO 1461

AGLAIA fixing clip for .... mm mesh -  
bottom or top fixing

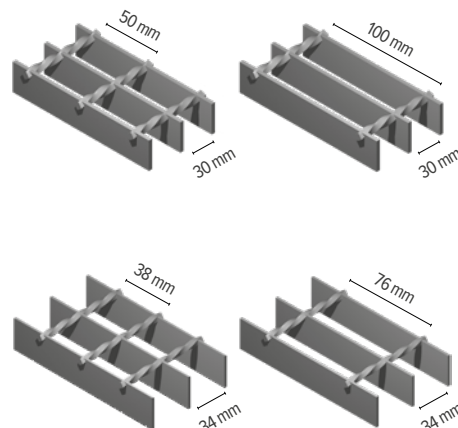
CE certified (Ref. Factory Manufacturing  
Control Certificate 0948-CPR-0287)



NR 0948-CPR-0287



Detail for serrated version  
(anti-skid Class R10 no. 5648/14)



BEARING BAR		CROSS BAR DIRECTION	No. bearing bars				
H	S	L		34°	34°	30°	30°
mm	mm	mm	Mesh	35x50	30x100	34x38	34x76
			Weight	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>
25	2	998		-	-	14,0	12,4
30	2	998		-	-	16,2	14,6
40	2	998		-	-	20,7	-
25	3	999		21*	19,8*	19,6	18
30	3	999		24,9*	23,7*	23,1*	21,4
40	3	999		32,6	31,4	29,9*	28,3
50	3	999		-	-	36,7	35,1
40	4	1000		43	41,8	39,1	37,4
25	5	1000		34,4*	32,4*	-	-
30	5	1000		40,9*	38,9*	-	-
32	5	1000		43,5*	41,5*	-	-

GEA MAT SIZE 6100X1000 mm, (UNFRAMED – SELF COLOURED)

\*cross bars twisted

\*offered also with serrated bearing bar

Weights (kg/m<sup>2</sup>) are theoretical and subject to dimensional tolerances of raw materials  
(page 16 of UNI 11002, Point 5.3, Prospect 1)



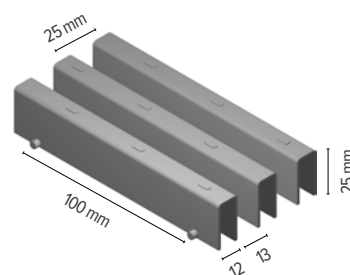


# BARROTTO ANTIQUUM®

Thanks to the peculiar anti-slip notched bearing bars and its unique aesthetic appearance, the BARROTTO ANTIQUUM® Electro-welded grating represents a natural practical and quality choice. Its handcrafted look is best suited to down town applications. Defim Orsogrill service includes the possibility to produce custom-made panels, framed and shaped, with the technical support of its unique in-house design office that is one of its kind in the industry. Both the standard semi-finished grating mats called GEA, sized 6100x1000mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).



NR 0948-CPR-0287



## TECHNICAL DETAILS

### Material

> S235JR UNI EN 10025 Steel

### Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

### Painting

> RAL colours

### Section

> U profile bearing bar, sized 25x12x25x1.5mm (heel-proof)

### Weight

> Unframed semi-finished self-colour material 28.6 kg/m<sup>2</sup>

### Capacity load (kg)

> Class 1 - pedestrian load on maximum net span of 1300 mm

## APPLICATIONS

- > Pedestrian open steel flooring for traditional and stylish down town environments
- > Drainage covers
- > Ventilation grilles

## PRODUCT SPECIFICATIONS

BARROTTO ANTIQUUM® electro-welded grating - Cut-to-size framed panels  
Mesh mm: 25 (empty 13 mm - full 12 mm) x 100

U profile bearing bar, sized 25x12x25x1.5mm anti-slip grooved.

Round cross wire Ø 4 mm:

Edges framing flat bar 25x2 mm

Weight kg/m<sup>2</sup>: 34.9 (galvanized or painted)

Material: S235JR UNI EN 10025 steel  
Finish: hot-dip galvanizing according to UNI EN ISO 1461

As an alternative:

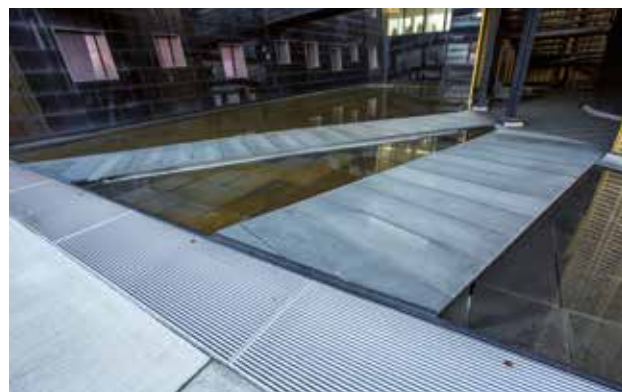
Finish: micaceous grey RAL 223 polyester powder painting on hot-dip galvanizing material

AGLAIA fixing clip for 15 mm mesh - bottom fixing

CE certified (Ref. Factory Manufacture Control Certificate 0948-CPR-0287)

ANTI-SKID to DIN 51130 - CLASS R9

BALL-PROOF to Italian Ministerial Decree no. 236 of June 14, 1989







UTILIOR® press-locked gratings versatile manufacturing process offers an extremely wide mesh opening range to choose from, in order to combine attractive design with loading requirements. With the support of Nuova Defim's in-house technical office, that is one of its kind in the industry, it is also provided framed and shaped panels service.

## TECHNICAL DETAILS

### Materials

- > S235JR UNI EN 10025 Steel
- > Steel - stainless steel - aluminium - COR-TEN

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461

### Painting

- > RAL colours

### Accessories

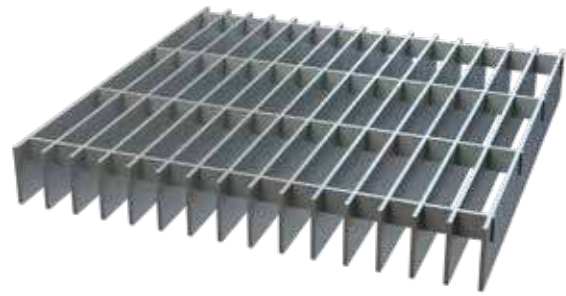
- > Fixing clips > see page 68

## APPLICATIONS

- > Drain covers
- > Open steel floors
- > Walkways
- > Stair treads
- > Light gratings
- > Mezzanines

## PRODUCT SPECIFICATIONS

ORSOGRIL UTILIOR® press-locked grating  
- GP (pressed grating) Cut-to size  
framed panels (bearing bar - mesh)  
Mesh mm: ....  
Bearing flat bar mm: ....  
Flat cross bar mm: ...  
Edges framing flat bar...  
Weight kg/m<sup>2</sup>: ...  
Material: S235JR UNI EN 10025 Steel  
Finish: hot-dip galvanizing according to  
UNI EN ISO 1461  
AGLAIA fixing clip for .... mm mesh -  
bottom or top fixing



BEARING BAR		CROSS BAR DIRECTION		Mesh AxB	11x66	15x66	17x66	22x22	22x66	25x66	33x33	33x66	44x11	66x11	66x22	66x33
H	S	H	S		kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>	kg/m <sup>2</sup>
mm	mm	mm	mm													
20	2				34,1	26,2	23,6	24,3	19,3	17,6	16,8	14,3	24,5	21,9	14,4	11,9
25	2				42	32,1	28,8	28,5	23,5	21,4	19,8	17,3	26,9	23,6	16,1	13,6
30	2				49,9	38	34,1	32,6	27,6	25,2	22,7	20,2	29,3	25,3	17,8	15,3
35	2				57,7	43,9	39,3	36,8	31,8	28,9	25,7	23,2	31,7	27	19,5	17,1
40	2				65,6	49,8	44,5	41	36	32,7	28,6	26,1	34	28,8	21,3	18,8
45	2	10	2		73,5	55,7	49,8	45,2	40,2	36,5	31,6	29,1	36,4	30,5	23	20,5
50	2				81,3	61,6	55	49,4	44,4	40,2	34,5	32	38,8	32,2	24,7	22,2
25	3				59,6	45	40,2	37,3	32,3	29,2	25,7	23,2	31,4	26,6	19,1	16,6
30	3				71	53,5	47,7	43,2	38,2	34,6	29,8	27,3	34,7	28,9	21,4	18,9
35	3				82,4	62	55,2	49,1	44,1	39,9	33,9	31,4	38	31,2	23,7	21,2
40	3				93,8	70,5	62,7	55,1	50,1	45,2	38	35,5	41,2	33,5	26	23,5
45	3				105,1	78,9	70,2	61	56	50,6	42,1	39,6	44,5	35,8	28,3	25,8
50	3				116,5	87,4	77,7	66,9	61,9	55,9	46,3	43,8	47,8	38,1	30,6	28,1
60	3				139,8	104,9	93,2	80,3	74,3	67	55,5	52,5	57,3	45,6	36,7	33,7
70	3	12	2		162,5	121,8	108,2	92,2	86,2	77,7	63,7	60,7	63,8	50,2	41,3	38,3
80	3				185,3	138,7	123,2	104	98	88,3	72	69	70,4	54,8	45,9	42,9
90	3				208	155,7	138,3	115,9	109,9	99	80,2	77,2	76,9	59,5	50,5	47,5
100	3				230,8	172,6	153,3	127,8	121,8	109,7	88,4	85,4	83,4	64,1	55,1	52,1
30	4				96,6	73,4	65,6	64,2	53	48,2	44,1	38,5	59,6	51,8	35,1	29,6
40	4				126,8	95,9	85,6	79,9	68,8	62,4	55	49,5	68,3	58	41,3	35,7
50	4				157,1	118,4	105,5	95,7	84,6	76,5	66	60,4	77	64,1	47,4	41,8
60	4				187,3	140,9	125,4	111,5	100,3	90,7	76,9	71,3	85,7	70,2	53,5	47,9
70	4				217,5	163,4	145,4	127,2	116,1	104,8	87,8	82,3	94,3	76,3	59,6	54
80	4	15	3		247,7	185,9	165,3	143	131,8	119	98,8	93,2	103	82,4	65,7	60,1
90	4				277,9	208,4	185,3	158,7	147,6	133,1	109,7	104,1	111,7	88,5	71,8	66,3
100	4				308,2	230,9	205,2	174,5	163,4	147,3	120,7	115,1	120,4	94,7	78	72,4
110	4				338,4	253,4	225,1	190,3	179,1	161,4	131,6	126	129,1	100,8	84,1	78,5
120	4				368,6	276	245,1	206	194,9	175,6	142,5	137	137,8	106,9	90,2	84,6
40	5				157,7	119,3	106,5	100,5	85,8	77,8	69,1	61,8	87,3	74,5	52,5	45,1
50	5				195,2	147,2	131,3	120	105,3	95,3	82,7	75,3	98,1	82,1	60,1	52,7
60	5				232,7	175,2	156	139,5	124,8	112,9	96,3	88,9	108,9	89,7	67,7	60,3
70	5				270,1	203,1	180,7	159,1	144,4	130,4	109,8	102,5	119,7	97,3	75,3	67,9
80	5	15	4		307,6	231	205,4	178,6	163,9	148	123,4	116	130,4	104,9	82,8	75,5
90	5				345,1	258,9	230,2	198,2	183,5	165,5	136,9	129,6	141,2	112,5	90,4	83,1
100	5				382,5	286,8	254,9	217,7	203	183,1	150,5	143,2	152	120,1	98	90,7
110	5				420	314,7	279,6	237,2	222,5	200,6	164,1	156,7	162,8	127,7	105,6	98,3
120	5				457,5	342,6	304,3	256,8	242,1	218,2	177,6	170,3	173,5	135,2	113,2	105,8

PRESSED GRATING – WEIGHT OF GALVANIZED FRAMED PANELS.

Weights kg/m<sup>2</sup> are theoretical and subject to dimensional tolerances of raw materials  
(page 16 of UNI 11002, Point 5.3, Prospect 1)







# STANDARD GRATING STAIR TREADS®

For outdoor and emergency stairs are mainly used STANDARD GRATING STAIR TREADS due to their compliance with loading requirements and to the empty-to-full ratio ensuring fire smokes rapid evacuation. All NUOVA DEFIM ORSOGRIL grating stair treads are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).



NR 0948-CPR-0287



## TECHNICAL DETAILS

### Material

> S235JR UNI EN 10025 Steel

### Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

## APPLICATIONS

- > Emergency security stairs
- > Service stairs

## PRODUCT SPECIFICATIONS

Welded ORSOGRIL GRATING STAIR TREADS

to be bolted - STD

Mesh mm: ...

Bearing flat bar mm: ...

Round cross wire mm: ...

Dimensions mm: ...

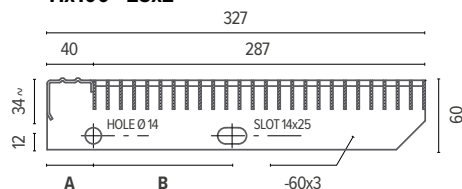
Grating panel provided with a special front profile called "nosing" and two perforated side plates for bolting it to the steel stair supports.

Weight kg/each: ...

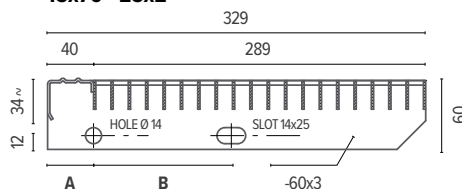
Material: S235JR UNI EN 10025 Steel

Finish: hot-dip galvanizing according to UNI EN ISO 1461

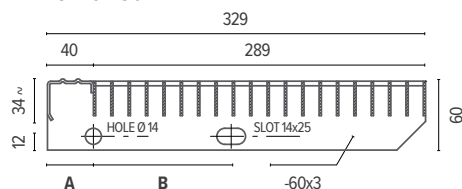
### 11x100 - 25x2



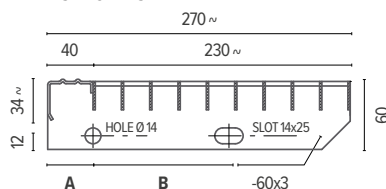
### 15x76 - 25x2



### 15x76 - 30x2



### 25x76 - 25x2



DESCRIPTION	MESH		BEARING BAR		DIMENSIONS			DRILLING UNI NORMS	
	H	L	H	S	H	L	Weight	A	B
	mm	mm	mm	mm	mm	mm	kg/ea	mm	mm
Slip-resistance nosing with profiled upwards facing holes	15	76	25	2	1000	329	11,0	40	120
Slip-resistance nosing with profiled upwards facing holes	15	76	25	2	1200	329	13,1	40	120
Slip-resistance nosing with profiled upwards facing holes *	15	76	30	2	1200	329	15,1	40	120
Slip-resistance nosing with profiled upwards facing holes	25	76	25	2	600	267	4,3	40	120
Slip-resistance nosing with profiled upwards facing holes	25	76	25	2	700	267	4,9	40	120
Slip-resistance nosing with profiled upwards facing holes	25	76	25	2	800	267	5,5	40	120
Slip-resistance nosing with profiled upwards facing holes	25	76	25	2	900	267	6,1	40	120
Slip-resistance nosing with profiled upwards facing holes	25	76	25	2	1000	267	6,7	40	120

"EXODUS®" STEPS FOR SECURITY STAIRS (HEEL PROOF MESH – TYPE TO BE BOLTED)

\* According to the D.M. 236, dated 14 June 1989

\*\*According to the UNI 1100-2 norm, test reported from Milan Polytechnic (P.54/2 – 8.11.2)

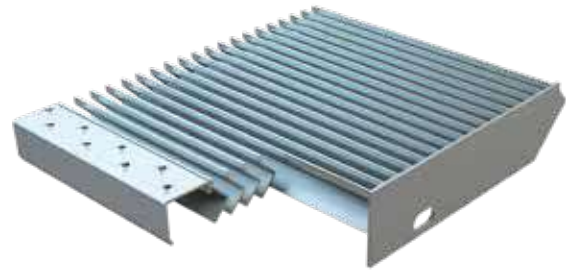


# ANTIVERTIGO® SYSTEM

Download



The no-panic ANTIVERTIGO® grating is a patented exclusive system by NUOVA DEFIM ORSOGRIL. The special shaped profiles provide total screening down, while keeping the typical airflow grating characteristics. The step designed using this grating type complies with current anti-skid norms; Antivertigo landings and walkways grating are also available upon request. For landings composition, the system foresees a starting panel provided with “nosing” and a variable number of interlocked panels to reach the desired length. The panels are joined together by a “dovetail” system between the frames. This solution grants the visual continuity between adjacent panels, hiding the junction points.



## TECHNICAL DETAILS

### Material

S235JR UNI EN 10025 Steel

### Coating

Hot-dip galvanizing according to UNI EN ISO 1461

### Weight

> 18.3 kg/each, galvanised

### Capacity load (kg)

> Stair tread load on maximum net span of 1200 mm

## APPLICATIONS

- > Light gratings
- > Floors
- > Walkways
- > Stair treads
- > Drainage covers
- > Mezzanines

## PRODUCT SPECIFICATIONS

ANTIVERTIGO® ORSOGRIL Stair tread

for bolting

Mesh mm: 15

Bearing bar mm: special V profile

Round cross bar mm: Ø 6

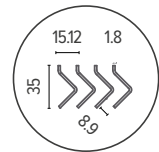
Dimensions mm: 1200x315

Grating panel provided with a special front profile called “nosing” and two perforated side plates for bolting it to the steel stair supports.

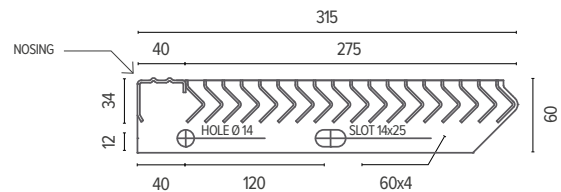
Weight kg/each: 17.8 galvanized

Material: S235JR UNI EN 10025 Steel

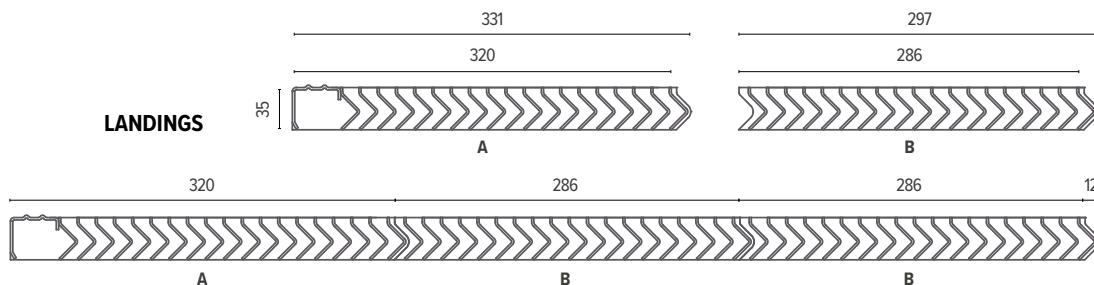
Finish: hot-dip galvanizing according to UNI EN ISO 1461



### “NO PANIC” STEP



### LANDINGS



## LANDINGS

For landings composition, the system foresees a starting panel provided with “nosing” and a variable number of interlocked panels to reach the desired length. The panels are joined together by a “dovetail” system between the frames. This solution grants the visual continuity between adjacent panels, hiding the junction points.

### A\_Starting panel with “nosing” Dimensions

Dimensions Width (W): 1200 mm

Depth (D): 320 mm

Weight kg/each: 16.8 (self-colour)  
kg/each: 17.8 (galvanized)

### B\_Standard panel

Dimensions Width (W): 1200 mm

Depth (D): 286 mm

Weight kg/each: 15.2 (self-colour)  
kg/each: 16.2 (galvanized)







# III Fencing

Tradition and new horizons



Download



**FENCING**

<http://www.nuovadefim.com/it/content/download-area>



## **WIRE PANELS\_** P. 28

RECINTHA® N/L  
RECINTHA® N/L YOUNG  
RECINTHA® 202  
RECINTHA® P.G.  
RECINTHA® SAFETY  
RECINTHA® STADIUM

## **MOBILE PANELS\_** P. 34

DEFENDER HD PLUS  
DEFENDER PEOPLE  
DEFENDER MARATHON  
DEFENDER CITY

## **VERTICAL RAILING PANELS\_** P. 37

ACUMINA®  
CELENO®  
ANTICLEA®  
RECINTHA® GIGLIO

## **GRATING PANELS\_** P. 41

STEROPE®  
PLEIONE®  
BRITOSTEROPE®  
ELETTRA  
STADIUM

## **LOUVERED PANELS\_** P. 46

TALIA® VENTUS  
TALIA® VENTUS SCREEN  
TALIÀLIVE

## **GATES\_** P. 50

GATES

## **WALL CLADDING\_** P. 52

TALIA® / SCREEN / TALIÀLIVE  
TETI  
VERTICAL SEMI-FINISHED GRATING

## **MACS FENCES\_** P. 56



Download

# RECINTHA® N/L

An elegant and lightweight fencing solution, RECINTHA® N/L panels have a "V" shaped profile that gives a pleasing appearance to the property perimeter system. The wide range of colours available allows this fencing to integrate perfectly with the most varied environments, resulting effective and refined at the same time. Thanks to the modular structure and the patented clip, RECINTHA® N/L becomes a strong, extremely adaptable and very quick to erect fence system to suite large fencing areas. It is available either in the classic version, with 60x60 mm square tube section or with 40 mm diameter round tube post.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 50x200 mm
- > Wire Ø 5 mm

### Materials

- > S235 JR UNI EN 10025 steel, hot galvanized according to UNI EN 10244-2

### Coating

- > Polyester powder coating

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

> see page 62

- > Universal MP clip for square post (International Patent)
- > Crab-type clip for round post

### Gates

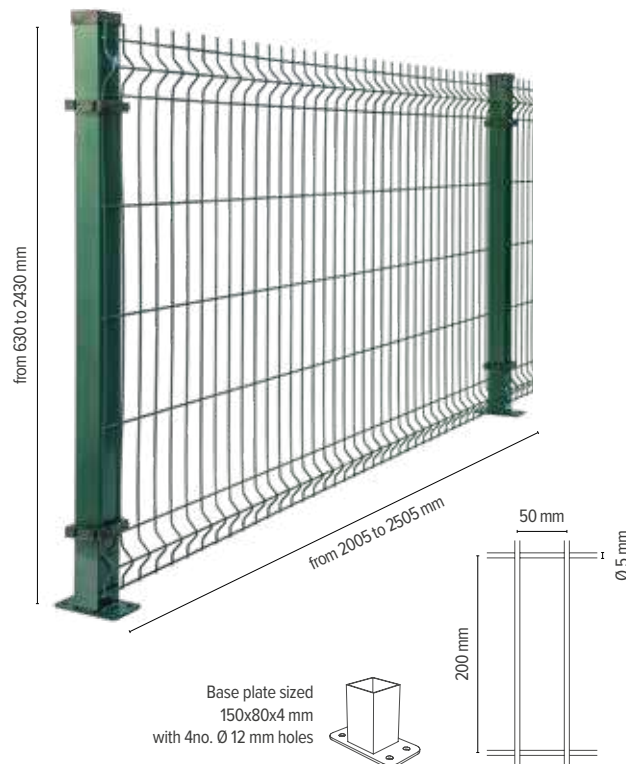
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Industrial buildings
- > Residential buildings
- > Villas
- > Public buildings
- > Photovoltaic power systems

## PRODUCT SPECIFICATIONS

Electro-welded wire mesh panels made of 5 mm nominal diameter steel wire with horizontal profiles. Mesh size 200 x 50 mm. For panel widths and heights, see the table below. Post centre-to-centre distance: square section 2010/2065 and 2510/2565 mm; round section 2015/2045 and 2515/2545 mm. Installation with universal MP or crab-type clips for respectively square or round tube posts.



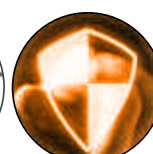
Base plate sized  
150x80x4 mm  
with 4no. Ø 12 mm holes



60x60 mm  
square post



Ø 40 mm  
round post



MACS System  
> see pages 56-57

> see page 60

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m <sup>2</sup>	mm	n°	mm	kg/ea	mm	kg/ea
630	2005	6,5	5,1	60x60	2	900	2,6	700	2,4
				Ø 40		900	1,4	700	1,5
	2505	7,3	4,6	60x60		900	2,6	700	2,4
				Ø 40		900	1,4	700	1,5
830	2005	7,4	4,4	60x60	2	1100	3,2	900	3,0
				Ø 40		1100	1,7	900	1,8
	2505	9,1	4,4	60x60		1100	3,2	900	3,0
				Ø 40		1100	1,7	900	1,8
1030	2005	8,8	4,2	60x60	2	1300	3,8	1100	3,6
				Ø 40		1300	2,0	1100	2,1
	2505	10,9	4,2	60x60		1300	3,8	1100	3,6
				Ø 40		1300	2,0	1100	2,1
1230	2005	10,2	4,1	60x60	2	1500	4,4	1300	4,2
				Ø 40		1500	2,3	1300	2,4
	2505	12,7	4,1	60x60		1500	4,4	1300	4,2
				Ø 40		1500	2,3	1300	2,4
1530	2005	13,5	4,4	60x60	3	1800	5,3	1600	5,1
				Ø 40		1800	2,8	1600	2,8
	2505	16,8	4,4	60x60		1800	5,3	1600	5,1
				Ø 40		1800	2,8	1600	2,8
1730	2005	14,4	4,2	60x60	4	2000	5,9	1800	5,7
				Ø 40		2000	3,1	1800	3,2
	2505	17,9	4,1	60x60		2000	5,9	1800	5,7
				Ø 40		2000	3,1	1800	3,2
2030	2005	17,7	4,3	60x60	4	2300	6,8	2100	6,6
				Ø 40		2300	3,5	2100	3,6
	2505	21,3	4,2	60x60		2300	6,8	2100	6,6
				Ø 40		2300	3,5	2100	3,6
2430	2005	20,0	4,1	60x60	4	2700	8,0	-	-
	2505	22,5	3,7	60x60		2700	8,0	-	-



# RECINTHA® N/L Young

Download



Elegant and refined fence, RECINTHA® N/L Young maintains the basic model design, provided with horizontal profiles to transmit a sense of pleasantness in the property delimitation. Thanks to the 2500 mm span and its visual lightness, this design fits harmoniously in contexts where there are large boundaries to fence with charm and discretion.

The modular structure and the patented joint make of it a sturdy fence, extremely adaptable and quick to be installed. It is available either in the classic version with a 60x60 mm square post or with a 40 mm diameter round post galvanized and polyester powder painted in green color Ral 6005 for an easy matching with the surrounding vegetation.

## TECHNICAL DETAILS

### Dimensions

- > Mesh: 55,5 x 200mm
- > Vertical wire diameter 4 mm
- > Horizontal wire diameter 5 mm

### Material

- > S235JR UNI EN 10025 hot galvanized steel, according to the UNI EN 10244-2 Standard

### Coating

- > Painted with Polyester powders

### Colours

- > Green RAL 6005

### Fixing system

- > see page 62
- > Universal MP clip for square tube post (International Patent)
- > "Crab"clip for round tube post

### Gates

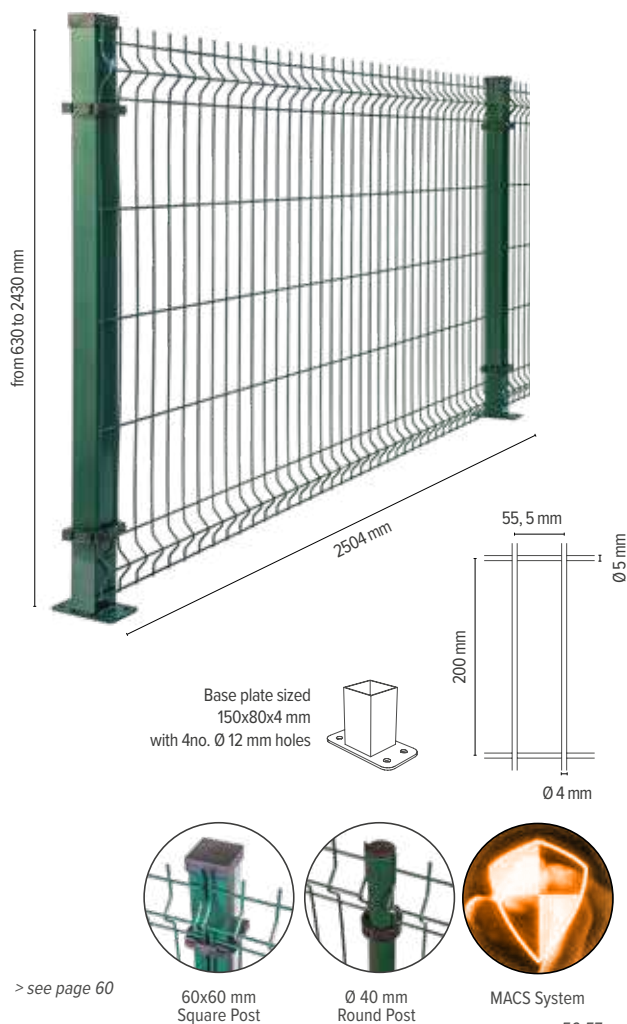
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Industrial buildings
- > Residential buildings
- > Villas
- > Public buildings
- > Photovoltaic power systems

## PRODUCT SPECIFICATIONS

Electro-welded mesh panels made of 4 mm nominal diameter vertical steel wires and 5 mm nominal diameter horizontal steel wires with horizontal profiles. Mesh size 200x55,5 mm. For panel widths and heights, see the table below. Post centre-to-centre distance: square section 2510/2565 mm; round section 2515/2545 mm. Installation with universal MP or crab-type clips for respectively square or round tube posts.



&gt; see page 60

60x60 mm  
Square PostØ 40 mm  
Round Post

MACS System

&gt; see pages 56-57

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	n°	mm	kg/ea	mm	kg/ea
630	2504	7,3	4,6	60x60	2	900	2,6	700	2,4
				Ø 40		900	1,4	700	1,5
830	2504	9,1	4,4	60x60	2	1100	3,2	900	3,0
				Ø 40		1100	1,7	900	1,8
1030	2504	10,9	4,2	60x60	2	1300	3,8	1100	3,6
				Ø 40		1300	2,0	1100	2,1
1230	2504	12,7	4,1	60x60	2	1500	4,4	1300	4,2
				Ø 40		1500	2,3	1300	2,4
1530	2504	16,8	4,4	60x60	3	1800	5,3	1600	5,1
				Ø 40		1800	2,8	1600	2,8
1730	2504	17,9	4,1	60x60	4	2000	5,9	1800	5,7
2030	2504	21,3	4,2	60x60	4	2300	6,8	2100	6,6
2430	2504	22,5	3,7	60x60	4	2700	8,0	-	-



	<b>POSTS</b> P. 60
	<b>ASSEMBLY SYSTEMS</b> P. 62
	<b>CAPS</b> P. 65
	<b>RECINTHA ACCESSORIES®</b> P. 66
	<b>ALARM SYSTEM</b> P. 69





# RECINTHA® 202

The linearity of the mesh gives this fence a stylish look, while double horizontal wires makes it robust and secure; the system reaches its best when installed with Omega post.

The RECINTHA® 202 maintains high security standards, whilst ensuring a pleasing look.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 50x200 mm
- > Double wire: 8 mm horizontal, 6 mm vertical

### Materials

- > S235JR UNI EN 10025
- > Steel

### Coating

- > Polyester powder coating
- > Hot dip galvanized to UNI EN ISO 1461

### Colours

- > RAL 6005 green, other RAL colours available on demand.

### Fixing system

- > Universal MP joint > see page 62
- > Cover plate with security bolts (only with Omega post) > see pages 60-61

### Gates

- > Single, double or sliding leaf gates

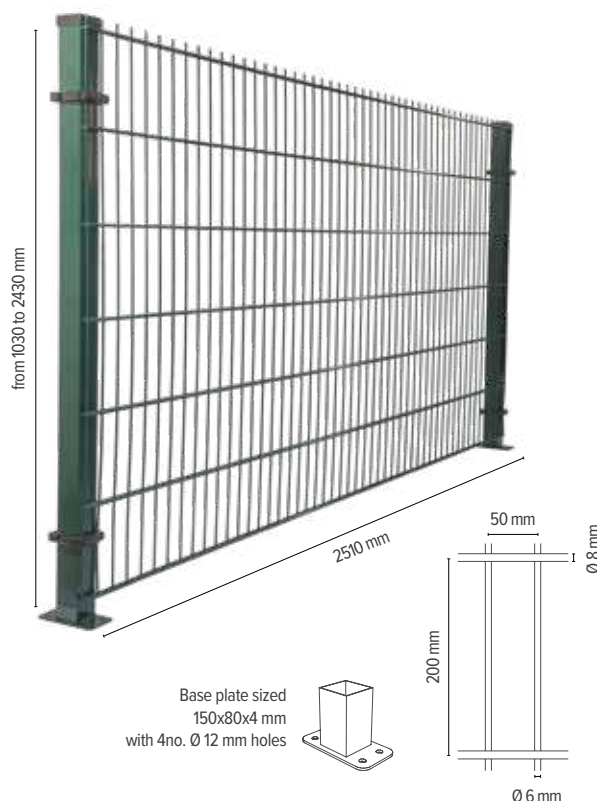
## APPLICATIONS

- > Industrial buildings
- > Residential buildings
- > Parking areas
- > Airports
- > Military sites

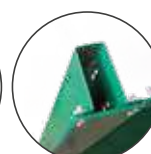
## PRODUCT SPECIFICATIONS

High-resistance fencing type 202 made of electro-welded wire mesh panels, 50x200 mm opening, with double 8 mm horizontal and 6 mm vertical wires, completed by a symmetrical Omega profile post a predrilled cover plate and secured by stainless steel anti-theft bolts. Painted by thermosetting polyester powder coating.

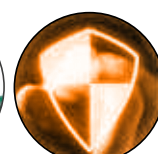
Post centre-to-centre distance: 2540 mm with Omega post, 2510 mm with square post section.



60x60 mm square post








60x40x25 mm or 120x60x30 mm Omega post



MACS System > see pages 56-57

> see pages 61-62-66


POSTS P. 60

ASSEMBLY SYSTEMS P. 62

CAPS P. 65

RECINTHA ACCESSORIES® P. 66

ALARM SYSTEM P. 69

PANEL				POST			Post to be set in concrete		Post with base plate	
H	L	Weight		Omega section	Square post	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	mm	n°	mm	kg/ea	mm	kg/ea
1030	2510	22,5	8,7	60x40x25	-	12	1500	10,5	1080	9,9
				-	60x60	3	1280	3,8	1080	3,6
1230	2510	26,9	8,7	60x40x25	-	12	1700	12,1	1280	11,3
				-	60x60	3	1480	4,4	1280	4,2
1430	2510	31,2	8,7	60x40x25	-	12	2000	14,2	1480	12,4
				-	60x60	3	1680	5,0	1480	4,8
1630	2510	35,6	8,7	60x40x25	-	16	2200	15,8	1680	14,0
				-	60x60	4	1880	5,6	1680	5,4
1830	2510	40,0	8,7	60x40x25	-	16	2400	17,4	1880	15,5
				-	60x60	4	2080	6,2	1880	6,0
2030	2510	44,3	8,7	60x40x25	-	16	2600	19,0	2080	17,1
				-	60x60	4	2280	6,8	2080	6,6
2230	2510	48,7	8,7	120x60x30	-	20	2800	33,6	2080	35,1
				-	60x60	4	2780	8,3	-	-
2430	2510	53,1	8,7	120x60x30	-	20	3000	36,2	2480	37,8
				-	60x60	4	2780	8,3	-	-





Modular fencing system, with no sharp edges, ideal for playgrounds, public parks and recreational areas use in general. The patented joint fixing system ensures versatility and ease of installation. The special top handrail conceals all protruding parts, making of it a secure fence.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 50x200 mm
- > Wire Ø 5 mm
- > Tubular 40 mm diameter handrail

### Materials

- > S235JR UNI EN 10025 steel, hot-dip galvanized according to UNI EN 10244-2

### Coating

- > Polyester powder coating

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system > see page 62

- > Universal MP Joint for square post (International Patent)
- > Crab-type clip for round post

### Gates

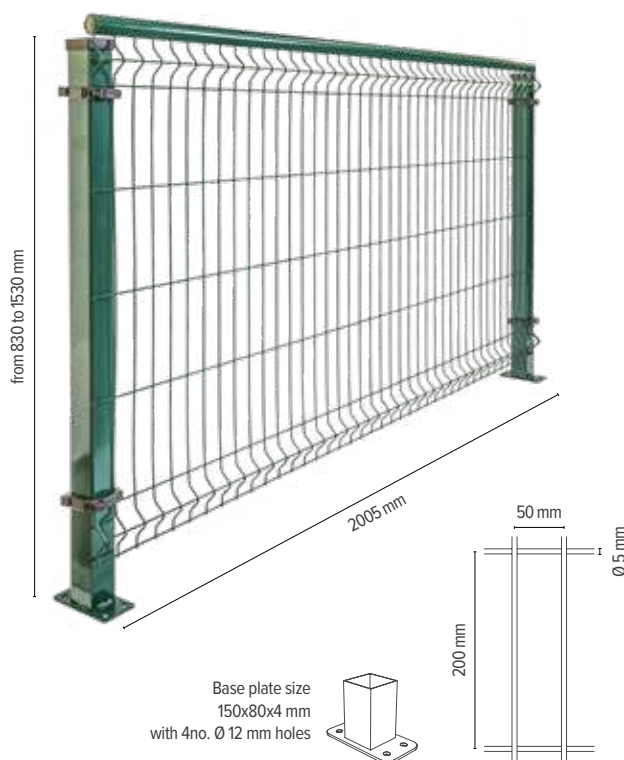
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Playgrounds
- > Public gardens
- > Leisure areas
- > Cycle tracks
- > School playing fields
- > Public railings

## PRODUCT SPECIFICATIONS

Modular panels made of 5 mm welded wires. Mesh size 50x200 mm, with no sharp edges, topped by a 38mm diameter tubular handrail with polyamide CF curved clips to join corner sections. Installation with universal MP or crab-type clips for respectively square or round tube posts. For panel width and height, see relevant tables. Post center-to-center distance: 2530/2565 mm with square post, 2015/2045 mm with round post.



Base plate size  
150x80x4 mm  
with 4no. Ø 12 mm holes



200 mm

50 mm

Ø 5 mm



Post with  
universal MP  
joint



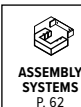
Handrail joint  
detail



Handrail corner  
detail

> See pages 60-62-66

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	n°	mm	kg/ea	mm	kg/ea
830	2005	7,4	4,4	60x60	2	1080	3,2	880	2,9
				Ø 40		1080	1,7	880	1,7
1030	2005	8,8	4,2	60x60	2	1280	3,8	1080	3,5
				Ø 40		1280	2,0	1080	2,0
1230	2005	10,2	4,1	60x60	2	1480	4,4	1280	4,1
				Ø 40		1480	2,3	1280	2,3
1530	2005	13,5	4,4	60x60	3	1780	5,3	1580	5,0
				Ø 40		1780	2,8	1580	2,8







Download

# RECINTHA® SAFETY

This is a high security system. The structure makes it virtually impossible to use shears on and, as it does not offer any foothold, it is impossible to climb over. The good see-through properties combine perfectly with the use of video-surveillance devices, for full effectiveness of the fencing system. The Omega post and anti-theft stainless steel bolt fastening system highly enhance its protection characteristics. For better solidity, additional accessories, such as reinforcement top and bottom rails, are available on request. The result of the collaboration with our technological partner TSEC is the new born fence called RECINTHA SAFETY MACS; this “smart fence” brings the perimeter security to the highest levels, thanks to the physical barrier integration with modern electronic processes.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 12,7x76,2 mm
- > Wire Ø 4 mm

### Materials

- > S235JR UNI EN 10025 steel, hot-dip galvanised according to UNI EN 10244-2
- > 95% Zn - 5% Al eutectic alloy wire

### Coating

- > Polyester powder coating

### Colours

- > RAL 6005 green, other RAL colours available on demand.

### Fixing system

- > see pages 60-61
- > Cover plate with anti-theft bolts
- > Mesh clips with anti-theft bolts

### Gates

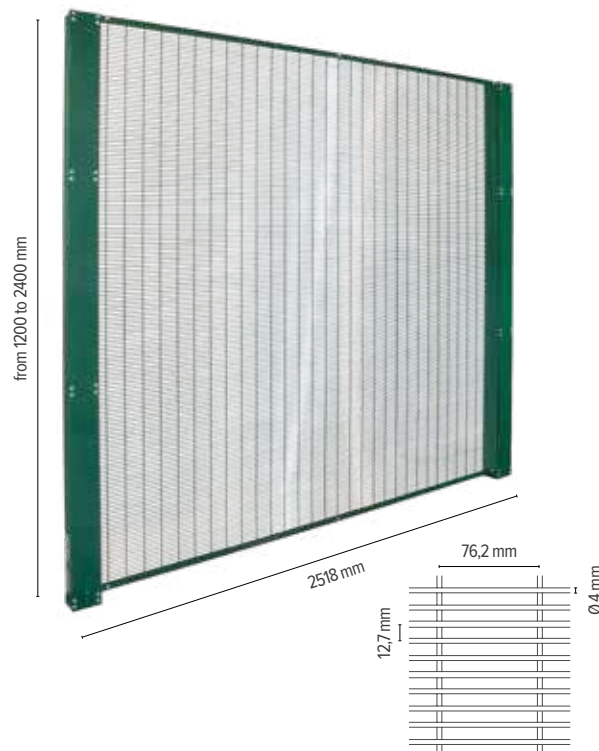
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Residential areas
- > Industrial areas
- > Commercial areas
- > Railways
- > Telecommunication sites
- > Military sites
- > High security fencing
- > Airport and custom area
- > Border lines

## PRODUCT SPECIFICATIONS

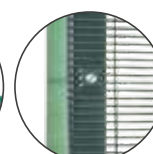
Electro welded mesh panel made of Ø 4 mm hot dip galvanized or zinc aluminum steel wire. Mesh size 12,7x76,2 mm. For panel widths and heights, see the table. Symmetric Omega profile posts with 90x4 mm and 120x4 mm cover plate. Stainless steel cup head square neck bolts and with security self-shearing nuts. Post centres distances: 2550 mm using Omega section 60x40x25x3 mm and 2580 mm with Omega section 120x60x30x3 mm. Thermosetting resins polyester powder coating.



> vsee pages 60-61-62-66



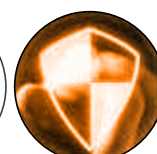
Omega post  
60x40x25x3 mm  
120x60x30x3 mm  
with cover plate



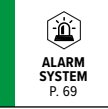
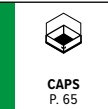
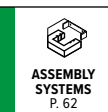
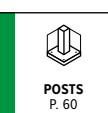
Fastening with  
mesh clips



Optional  
reinforcement railing



MACS System  
> see pages 56-57



PANEL				POST		Post to be set in concrete	
H	L	Weight		Omega Section	Fixing points	L	Weight galv.
mm	mm	Kg/ea	kg/m <sup>2</sup>	mm	n°	mm	Kg/ea
1200	2518	25,7	8,5	60x40x25	12	1700	12,0
1400	2518	30,0	8,5	60x40x25	12	1900	13,6
1600	2518	34,2	8,5	60x40x25	16	2100	15,2
1800	2518	38,5	8,5	60x40x25	16	2400	17,3
2000	2518	42,8	8,5	60x40x25	16	2600	18,9
2200	2518	47,1	8,5	120x60x30	20	2800	35,3
2400	2518	51,4	8,5	120x60x30	24	3000	36,1

## MESH CLIP FIXING

PANEL				POST		Post to be set in concrete	
H	L	Weight		Rectangular Section	Mesh clip	L	Weight galv.
mm	mm	Kg/ea	kg/m <sup>2</sup>	mm	n°	mm	Kg/ea
1400	2518	30,0	8,5	120x60x2	3	1900	10,7
1600	2518	34,2	8,5	120x60x2	4	2100	11,8
1800	2518	38,5	8,5	120x60x2	4	2400	13,5
2000	2518	42,8	8,5	120x60x2	4	2600	14,6
2200	2518	47,1	8,5	120x60x2	5	2800	15,8
2400	2518	51,4	8,5	120x60x2	6	3000	16,9





# RECINTHA® STADIUM



This specially designed fence for sport location is made in welded mesh according to the UNI EN 13200 norm. RECINTHA® STADIUM is not just a robust and very sturdy fence, but also guarantees to the audience an excellent vision through. In order to offer a product able to respond the new sports projects characteristics, this system has been equipped with particularly elegant and nice posts. Available in three models: RS1 H = 2230 mm; RS2 H = 2430 mm; RS3 H = 2230 mm + 630 mm (cranked top) to comply to different sports facility areas standards.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 50x200 mm
- > Twin horizontal wires Ø 8 mm, vertical wires Ø 6 mm

### Materials

- > Steel S235 JR UNI EN 10025

### Coating

- > Painting with polyester resins
- > Hot dip galvanized to UNI EN ISO 1461

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Gates

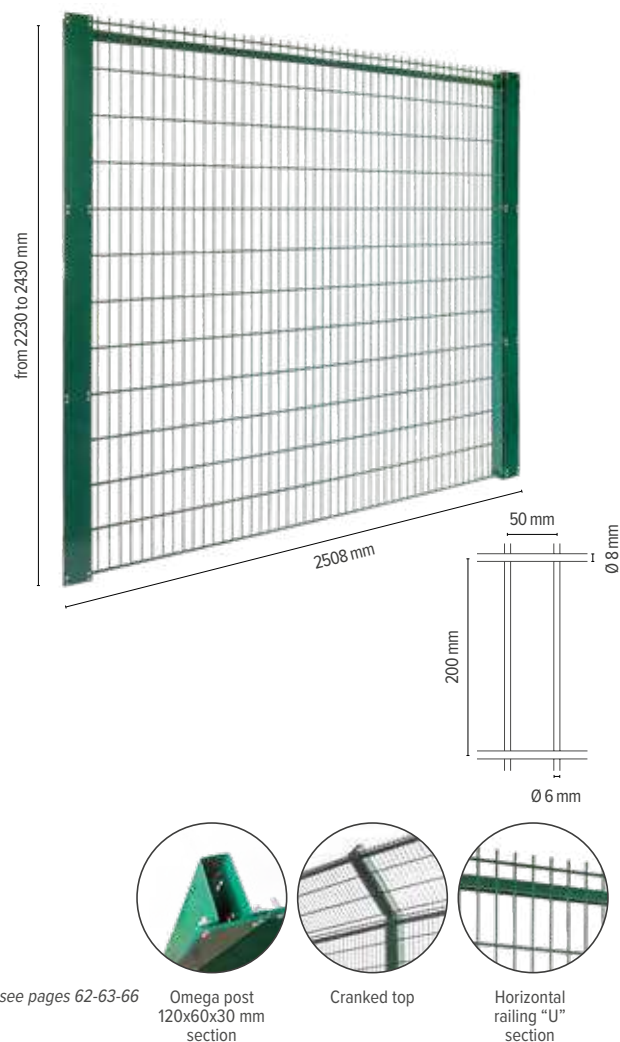
- > Safety gates built in compliance of the applicable laws on football fields and stadiums partitions.

## APPLICATIONS

- > Football field fence
- > Sport arenas
- > Athletics grounds
- > Sports facilities
- > Hippodrome
- > Car racetrack

## PRODUCT SPECIFICATIONS

RECINTHA® STADIUM fence is made of 50x200 mm electro-welded wire mesh panels, with double 8 mm horizontal wires and 6 mm vertical ones, mounted on Omega section posts profile, secured with stainless steel anti-theft bolts and cover plate, all in accordance with the Norm UNI EN 13200 (sports playgrounds partitions). Finish hot-dip galvanized and painting polyester powder coated. Post centers distance : 2570 mm.



> see pages 62-63-66

Omega post  
120x60x30 mm  
section

Cranked top

Horizontal railing "U"  
section

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Omega Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m <sup>2</sup>	mm	n°	mm	Kg/ea	mm	Kg/ea
2230	2508	42,9	8,7	120x60x30	20	3000	35,4	-	-
2430	2508	46,7	8,7	120x60x30	20	3000	36,2	-	-
2230+630	2508	42,9	8,7	120x60x30	24	2780+650	41,1	-	-



POSTS  
P. 60



ASSEMBLY  
SYSTEMS  
P. 62



CAPS  
P. 65



RECINTHA  
ACCESSORIES®  
P. 66

# DEFENDER HD PLUS

Product specification



Download

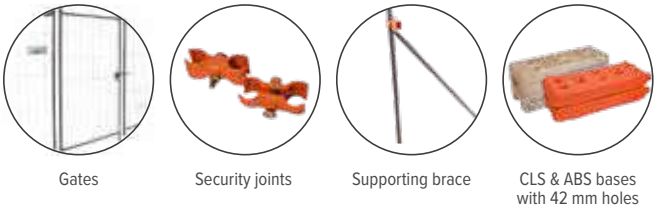
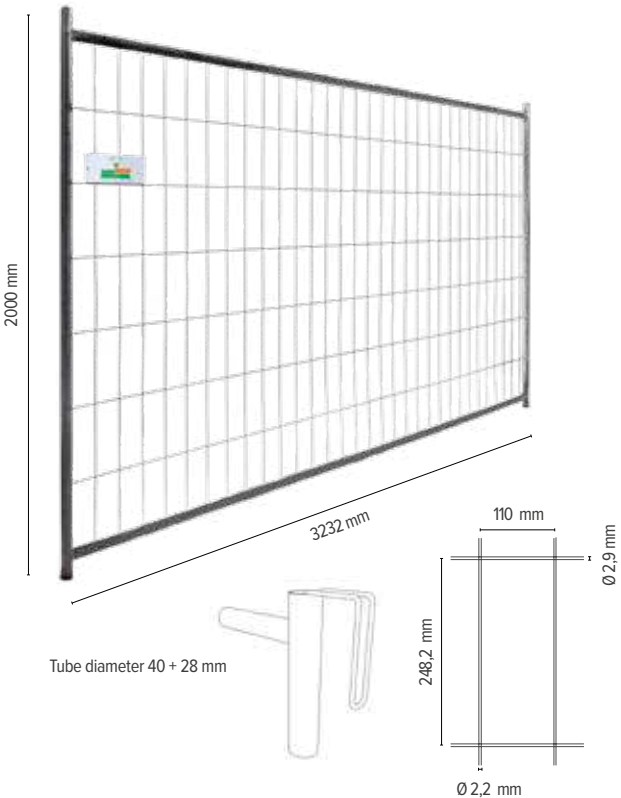
DEFENDER is the ideal solution to protect construction sites, special events areas and more generally any locations where temporary demarcation is necessary. The fixing system used between the horizontal and vertical tubes, ensures high standards of strength and durability. Panel length of 3232 mm has been designed to fit more panels in the truck. The system is manufactured according to the CEE 92/57 D.L.494/96 D.L. 528/99 norm.

## APPLICATIONS

- > Building worksites
- > Quick storage
- > Work in progress areas
- > Sports and music events
- > Trade fairs

## PRODUCT SPECIFICATIONS

Defender HD PLUS working site temporary fence, is made respectively by 40 mm diameter (vertical) & 28 mm diameter (horizontal) pregalvanized tubular frame. To prevent potential injuries, the wire mesh panel infill, is welded in the internal side of the perimeter tubes and counts on 2.9 mm diameter horizontal wires at 248,2 mm centres and 2.2 mm diameter vertical wires at 110 mm centres, galvanized according to the UNI EN 10244-2 norm. The 600x235x130 mm concrete base, is provided with eight holes to suit the vertical profiles size.



> see pages 67-68

PANEL			MESH		TUBE	BASE
H	L	Weight	H	L	Ø	Weight
mm	mm	Kg/ea	mm	mm	mm	Kg/ea
2000	3232	11	248,2	110	40 + 28	29





Download

# DEFENDER PEOPLE

DEFENDER PEOPLE comes from our experience developed in the work sites safety. This fence has been specially designed to surround temporary events areas to help carrying out either leisure or sport events in absence of risk. Rapid installation and a good view through, thanks to the vertical tubes infill, are DEFENDER PEOPLE main characteristics.

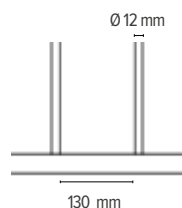
## APPLICATIONS

- > Sports and leisure events
- > Trade fairs
- > Work in progress areas

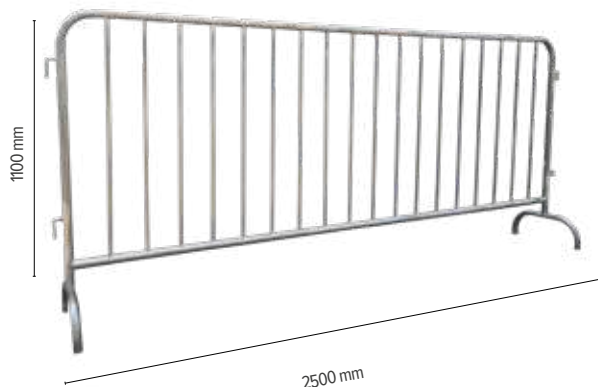
## PRODUCT SPECIFICATIONS

Mobile barrier 1100 mm high and 2500 mm wide made by a sharp edges free galvanized tubular frame Ø 32 mm completed with welded round vertical tubes Ø 12 mm at 130 mm centers distance. Easy installation with removable shaped tube feet. Panel provided with two welded hooks for sequential runs.

PANEL		MESH	PANELING TUBE	FRAME TUBE
H	L	centers distance	Ø	Ø
mm	mm	mm	mm	mm
1100	2500	130	12	32



Round tube frame section  
32 mm diameter



# DEFENDER MARATHON

This fence is similar to DEFENDER HD style, suiting particularly working areas and construction worksites. Due to its characteristics, the panel is used also for crowd delimitation during sport and leisure events. This fence installation is very easy and quick and due to its reduced height of 1200 mm the system grants a good visibility.

## APPLICATIONS

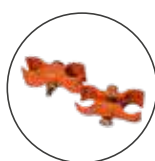
- > Building worksites
- > Work in progress areas
- > Sports and leisure events
- > Trade fairs

## PRODUCT SPECIFICATIONS

Working site temporary fence 1200 mm high and 3480 mm long, made by a frame of two vertical tubes 40 mm diameter and two horizontal tubes 30 mm diameter welded to one infill mesh panel sized 315x92 mm, wire 2,8 mm. The fence supports are in CLS (cement) or CLS orange colour plastic coated.

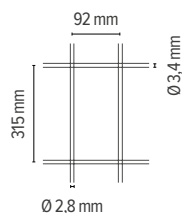


CLS & ABS bases  
with 42 mm holes



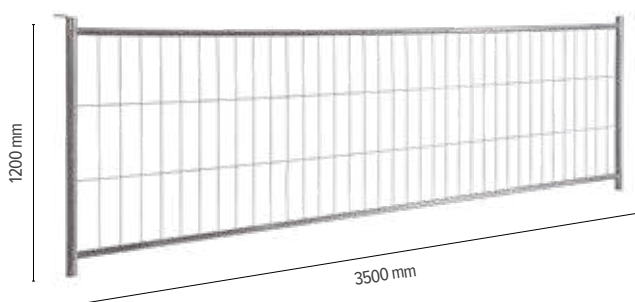
Security joints

> see pages 67-68



Tubes diameter:  
vertical 40 mm  
and horizontal 30 mm

PANEL		MESH		TUBE
H	L	H	L	Ø
mm	mm	mm	mm	mm
1200	3500	315	92	40 Vert + 30 Horiz



Download



# DEFENDER CITY

Product  
specification



Download

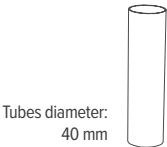
DEFENDER CITY ensures the site privacy and gives a specific connotation to your project. The panels are available in either pregalvanized or prepainted gray colour finish; additional colours to suit different aesthetic contexts or to comply with specific municipal regulations are available upon request.

## APPLICATIONS

- > Building worksites
- > Quick storage
- > Work in progress areas
- > Sports events
- > Trade fairs

## PRODUCT SPECIFICATIONS

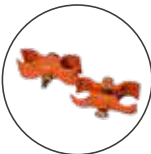
Working site temporary fence 2000 mm high and 1950 mm long, made by a frame of two vertical tubes 40 mm diameter and two horizontal "U" sections welded to one infill pregalvanized or prepainted finished steel corrugated sheet. The fence supports are in CLS (cement) or CLS orange colour plastic coated.



Tubes diameter:  
40 mm



Gates



Security joints



Supporting brace



CLS & ABS bases  
with 42 mm holes

> see pages 67-68

PANEL		INFILL	TUBE
H	L		
mm	mm		vertical mm
2000	1950	Pre-galvanized or pre-painted corrugated steel sheet	40





This anti-climbing railing fence is ideal for applications around residential areas. Supplied in modular panels, it has a neat appearance and can be used either in its galvanized finish or enhanced with painting (also micaceous grey finish), in order to give it a look similar to the handcrafted traditional fences. The system is completed by a 60x7 mm flat bar or a top conified tube post in the old-fashioned model.

## TECHNICAL DETAILS

### Dimensions

- > Vertical top conified round tubes Ø 20 mm at 117 mm centres distance
- > Top and bottom horizontal U profiles 25x50x25x2 mm

### Material

- > Steel S235 JR UNI EN 10025

### Coating treatment

- > Hot-dip galvanizing up to UNI EN ISO 1461
- > Painting with polyester resins

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

- > Stainless steel M10x30 security bolts

### Posts

- > Flat bar 60x7 mm

### Cancelli

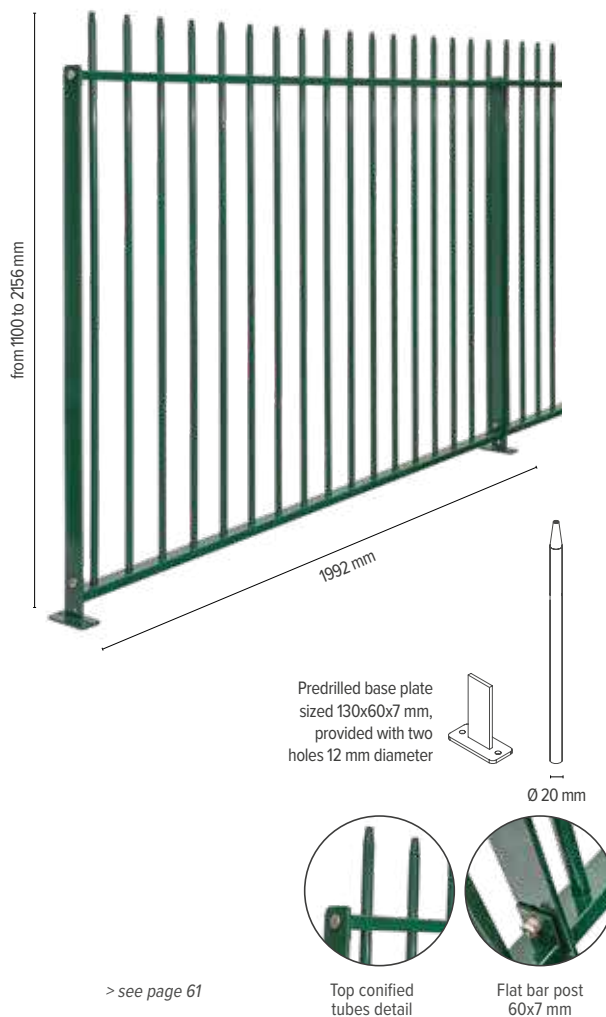
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Residential areas
- > Industrial areas
- > City parks
- > Sports facilities external fence

## PRODUCT SPECIFICATIONS

ACUMINA® railing fence modular standard panels ..... mm high, 1992 mm long, are made up of vertical top conified tubes 20 mm diameter, 1,5 mm thick welded at 117 mm centres distance, completed with top and bottom horizontal "U" profiles sections 25x50x25x2 mm, provided with a drilled welded plate to join panels to posts. Post centers distance: 2000 mm.



> see page 61

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	n°	mm	kg/ea	mm	kg/ea
1100	1992	24,5	11,2	60x7	2	1210	4,4	1011	4,2
1364	1992	28,9	10,6	60x7	2	1494	5,4	1275	5,2
1496	1992	31,0	10,4	60x7	2	1625	5,9	1407	5,7
1628	1992	33,2	10,2	60x7	2	1758	6,4	1539	6,1
1892*	1992	40,8	10,8	60x7	3	2015	7,3	1803	7,1
2156*	1992	45,1	10,5	60x7	3	2336	8,5	2067	8,0

\*n.3 horizontal railings



POSTS  
P. 61



ASSEMBLY  
SYSTEMS  
P. 64



It is a robust, simple and linear railing fence, with good see-through properties suitable for commercial or residential applications. The linear design ensures a pleasant look and a limited visual impact while granting a high degree of safety, since it does not provide climbing handholds. The lack of spikes and blunt parts, make it ideal for residential areas and public parks.

## TECHNICAL DETAILS

### Dimensions

- > Vertical round tubes Ø 20 mm at 117 mm centres distance
- > Top and bottom horizontal U profiles 25x50x25x2 mm

### Material

- > Steel S235 JR UNI EN 10025

### Coating

- > Hot-dip galvanizing up to UNI EN ISO 1461
- > Painting with polyester resins

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

- > Stainless steel M10x30 security bolts

### Posts

- > Flat bar 60x7 mm

### Gates

- > Single, double or sliding leaf gates

## APPLICATIONS

- > Residential areas
- > Industrial areas
- > City parks
- > Sports facilities external fence
- > School building

## PRODUCT SPECIFICATIONS

CELENO® railing fence modular standard panels ..... mm high, 1992 mm long, are made up of vertical tubes 20 mm diameter, 1,5 mm thick welded at 117 mm centres distance, completed with top and bottom horizontal "U" profiles sections 25x50x25x2 mm, provided with a drilled welded plate to join panels to posts. Post centers distance: 2000 mm.



> see page 61

Vertical tubes and horizontal railing detail

Flat bar post 60x7 mm



POSTS  
P. 61



ASSEMBLY  
SYSTEMS  
P. 64

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m <sup>2</sup>	mm	n°	mm	Kg/ea	mm	Kg/ea
950	1992	22,1	11,7	60x7	2	1210	4,4	1011	4,2
1214	1992	26,4	10,9	60x7	2	1494	5,4	1275	5,2
1346	1992	28,6	10,7	60x7	2	1625	5,9	1407	5,7
1478	1992	30,7	10,4	60x7	2	1758	6,4	1539	6,1
1742*	1992	38,3	11,0	60x7	3	2015	7,3	1803	7,1
2006*	1992	42,7	10,7	60x7	3	2336	8,5	2067	8,0

\*n.3 horizontal railings







Born from a unique design research inspired to the Italian style, ANTICLEA® is characterized by an original construction system combining elegance to solidity given by the 12 mm full rods use. The result is the typical strength of wrought iron fences, but with a neat boltless panel/post fixing patented system, using a stainless steel viewless pin. Furthermore the elements' intersections linearity, make ANTICLEA® fence ideal for applications around prestigious or historical areas.

## TECHNICAL DETAILS

### Dimensions

- > Pairs of horizontal 25x6 mm flat bars at 100 mm centres distance
- > 12mm vertical bars at 110 mm centres distance

### Material

- > Steel S235 JR UNI EN 10025

### Coating

- > Hot-dip galvanizing up to UNI EN ISO 1461
- > Painting with polyester resins

### Colours

- > Standard gray micaceous, other RAL colours available on demand

### Fixing system

- > Stainless steel viewless pin

### Posts

- > Round tube 50 mm diameter

### Gates

- > Single, double or sliding leaf gates

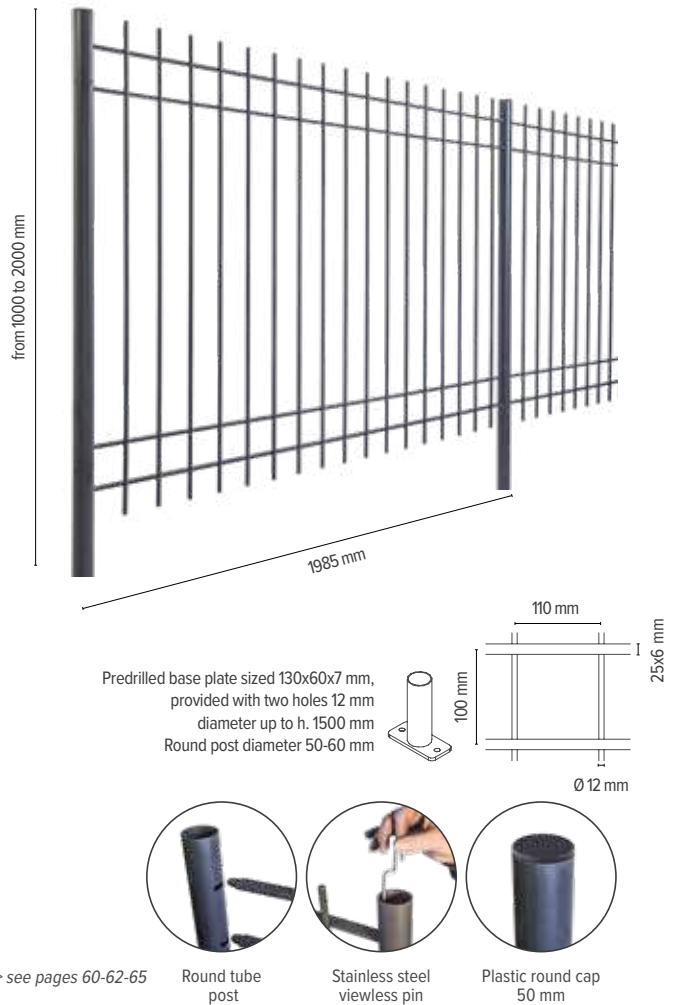
## APPLICATIONS

- > Prestigious residential areas
- > Historical and archaeological sites
- > Public parks

## PRODUCT SPECIFICATIONS

ANTICLEA® electro-welded railing fence is made up of modular monolithic panels, not jointed or abreast. Each panel is formed by two/three top and bottom pairs of flat horizontal bars, shaped and drilled at both ends (25x6 mm at 100 mm centres distance), welded to vertical round bars (Ø 12 mm diameter at 110 mm centres distance) rounded at both ends. Posts round tubes Ø 50 mm diameter are connected to panels by a patented boltless system.

Post centers distance: 2000 mm.



> see pages 60-62-65

Round tube  
post

Stainless steel  
viewless pin

Plastic round cap  
50 mm

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m²	mm	n°	mm	Kg/ea	mm	Kg/ea
1000	1985	28,19	14,20	Ø 50	4	1300	3,4	1100	3,4
1200	1985	31,68	13,30	Ø 50	4	1500	3,9	1300	3,9
1500	1985	36,92	12,40	Ø 50	4	1800	4,7	1600	4,7
1800	1975	47,28	13,30	Ø 60	6	2100	5,5	1900	5,2
2000	1975	50,96	12,90	Ø 60	6	2300	6,0	2100	6



POSTS  
P. 60



ASSEMBLY  
SYSTEMS  
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CAPS  
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# RECINTHA® GIGLIO

Residential, modular panels' fence, RECINTHA® GIGLIO evokes great villas typical wrought iron fences dated back to early 20th century. Thanks to the tubular structure design completed with the cast iron top lily finish, the private and public areas are surrounded with style, allowing also an open view of the greenery behind. The surface is treated with special powders coating, to give the fence a unique antique, handcrafted look ideal for homes with high quality finishes. The special assembling system, easy and efficient, make it adaptable to all situations, simplifying the installation process.

## TECHNICAL DETAILS

### Dimensions

- > Vertical round tubes Ø 16 mm with top lily ends at 110 mm centres distance
- > Top and bottom horizontal U profiles 20x30x20x3

### Material

- > Steel S235 JR UNI EN 10025

### Coating

- > Sendzimir galvanization
- > Painting with polyester resins

### Colours

- > Standard gray micaceous, other RAL colours available on demand

### Fixing system

- > Crab-type joint
- > Fixing lug

### Gates

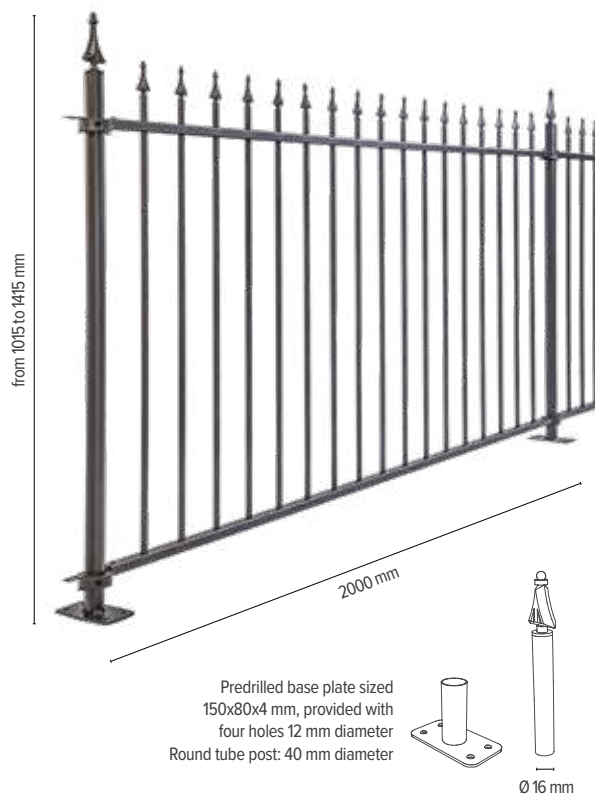
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Residential areas
- > Public parks
- > Urban furniture
- > Historical areas

## PRODUCT SPECIFICATIONS

RECINTHA® GIGLIO railing fence modular standard panels are made up of vertical tubes 16 mm diameter, with top lily ends at 112 mm centres distance, completed with top and bottom horizontal "U" profiles sections 30x20x2 mm, provided with a drilled lug to join panels to 40 mm diameter posts.



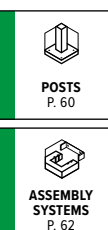
> see pages 60-62



Top Lily ends



Crab-type joint



PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m <sup>2</sup>	mm	n°	mm	Kg/ea	mm	Kg/ea
1015	2000	10,2	5,0	Ø 40	2	1360	2,9	1160	3,0
1215	2000	11,5	4,7	Ø 40	2	1560	3,2	1360	3,3
1415	2000	12,7	4,5	Ø 40	2	1760	3,5	1560	3,6





STEROPE® is the flagship among the NUOVA DEFIM ORSOGRIL, branded fencing product, matching elegance and aesthetic with solidity and transparency. These characteristics are ensured by the rectangular mesh that makes it a versatile product.

STEROPE® fencing panels can be combined with a classic flat bar 60x7 mm or 80x8 mm classic flat bar.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 62x132 mm
- > Vertical flat bars 25x2 mm
- > Horizontal rounded bars 4,5 mm

### Material

- > S235JR UNI EN 10025 Steel

### Coating

- > hot-dip galvanizing according to UNI EN ISO 1461
- > Painting with polyester resins

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

- > TDE M10x30 stainless steel bolt
- > TTQST M10x30 stainless steel security bolt

### Posts

- > 60x7 - 80x8 mm flat bar posts with base plate or without for concrete anchoring

### Gates

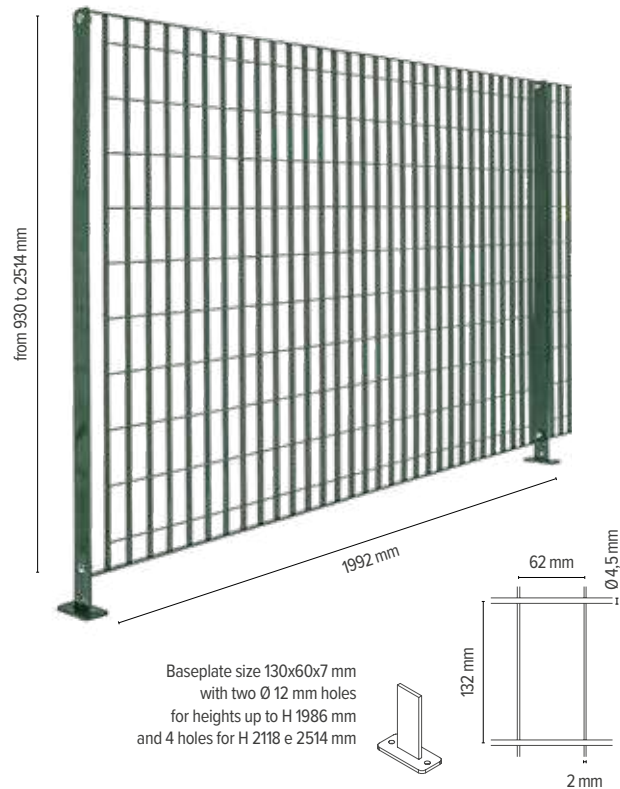
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Industrial areas
- > Residential areas
- > Commercial areas
- > Car parks
- > School buildings

## PRODUCT SPECIFICATIONS

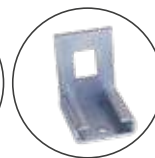
STEROPE® electro-welded mesh fencing consists of modular monolithic panels, not joined nor welded side by side, with a height of ... mm, width 1992 mm, mesh size 62x32 mm with 25x2 mm vertical flat bars (centres distance 62 mm) and 4,5 mm diameter horizontal round bars (centre distance 132 mm). The 25x4 mm flat bar horizontal frame elements are bent at the ends for a length of 40 mm and are slot drilled 12x16 mm. The horizontal frame elements are electro-welded to the vertical flat bars by fusion without additional material. Post centres distance: 2000 mm



Flat bar post  
60x7 mm



Intermediate fixing  
brackets only for  
H 1986, 2118 e 2514 mm



Adjusting bracket  
(straight)



MACS System  
> see pages 56-57

see pages 61-62

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/cad	kg/m²	mm	n°	mm	Kg/ea	mm	Kg/ea
930	1992	16,27	8,78	60x7	2	1210	4,4	1011	4,2
1194	1992	19,96	8,39	60x7	2	1494	5,4	1275	5,2
1326	1992	21,82	8,26	60x7	2	1625	5,9	1407	5,7
1458	1992	23,64	8,14	60x7	2	1758	6,4	1539	6,1
1722	1992	27,34	7,97	60x7	2	2015	7,3	1803	7,1
1986	1992	31,02	7,84	60x7	3	2336	8,5	2067	8,0
2118	1992	32,87	7,79	80x8	3	2470	13,7	2199	12,9
2514	1992	38,41	7,67	80x8	3	2915	16,1	2595	15,1



POSTS  
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ASSEMBLY  
SYSTEMS  
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ALARM  
SYSTEMS  
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Download

# PLEIONE®

PLEIONE® fence main characteristic is the small squared mesh. Thanks to this feature, choosing this product means to go for a fence where elegance and aesthetic join solidity and strength. PLEIONE® perimeter system can be completed with a 60x7 or 80x8 mm classic flat bar.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 62x66 mm
- > Vertical flat bars 25x2 mm
- > Horizontal rounded bars 4.5 mm

### Material

- > S235 JR UNI EN 10025 Steel

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Painting with polyester resins

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

- > TDE M10x30 stainless steel bolt
- > TTQST M10x30 stainless steel security bolt

### Posts

- > 60x7 - 80x8 mm flat bar posts with base plate or without for concrete anchoring

### Gates

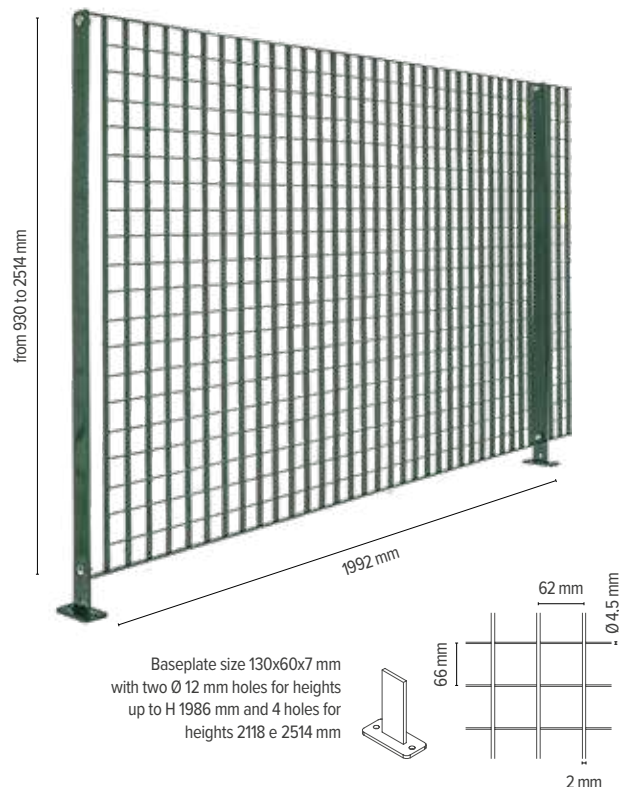
- > Single, double or sliding leaf gates

## APPLICATIONS

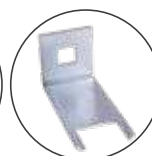
- > Industrial areas
- > Residential areas
- > Commercial areas
- > Public buildings

## PRODUCT SPECIFICATIONS

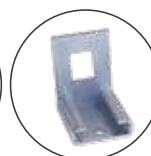
PLEIONE® electro-welded mesh fencing consists of modular monolithic panels, not joined nor welded side by side, with a height of .....mm, width 1992 mm, mesh size 62x66 mm with 25x2 mm vertical flat bars (centres distance 62 mm) and 4.5 mm diameter horizontal round bars (centres distance 66 mm). The 25x4 mm flat bar horizontal frame elements, are bent for a length of 40 mm, slot drilled 12x16 mm at the ends and are electro-welded to the vertical flat bars by fusion without additional material. Post centres distance: 2000 mm



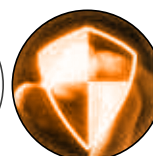
Flat bar post  
60x7, 80x8 mm



Intermediate fixing  
brackets only for H 1986,  
2118 and 2514 mm

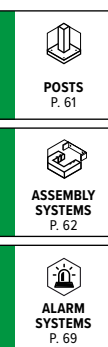


Adjusting  
bracket (straight)



MACS System  
> see pages 56-57

> see pages 61-62



PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m²	mm	n°	mm	Kg/ea	mm	Kg/ea
930	1992	17,91	9,67	60x7	2	1210	4,4	1011	4,2
1194	1992	22,07	9,28	60x7	2	1494	5,4	1275	5,2
1326	1992	24,14	9,14	60x7	2	1625	5,9	1407	5,7
1458	1992	26,23	9,03	60x7	2	1758	6,4	1539	6,1
1722	1992	30,39	8,86	60x7	2	2015	7,3	1803	7,1
1986	1992	34,54	8,73	60x7	3	2336	8,5	2067	8,0
2118	1992	36,62	8,68	80x8	3	2470	13,7	2199	12,9
2514	1992	42,87	8,56	80x8	3	2915	16,1	2595	15,1





BRITOSTEROPE® is an extra-sturdy fence consisting of large monolithic modular panel obtained by electro-welding vertical bearing flat bars and horizontal round transverse bars, which offers a high level of security. Britosterope® matches solidity and safety with a pleasant look.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 62x132 mm
- > Vertical flat bars 30x4 mm
- > Horizontal round bars 6 mm

### Material

- > S235JR UNI EN 10025 Steel

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Painting with polyester resins

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

- > TDE M10x30 stainless steel bolt
- > TTQST M10x30 stainless steel security bolt

### Posts

- > 60X7 - 80X8 mm flat bar posts with base plate or without for concrete anchoring

### Gates

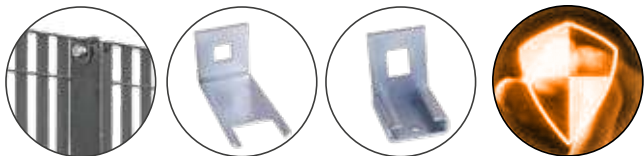
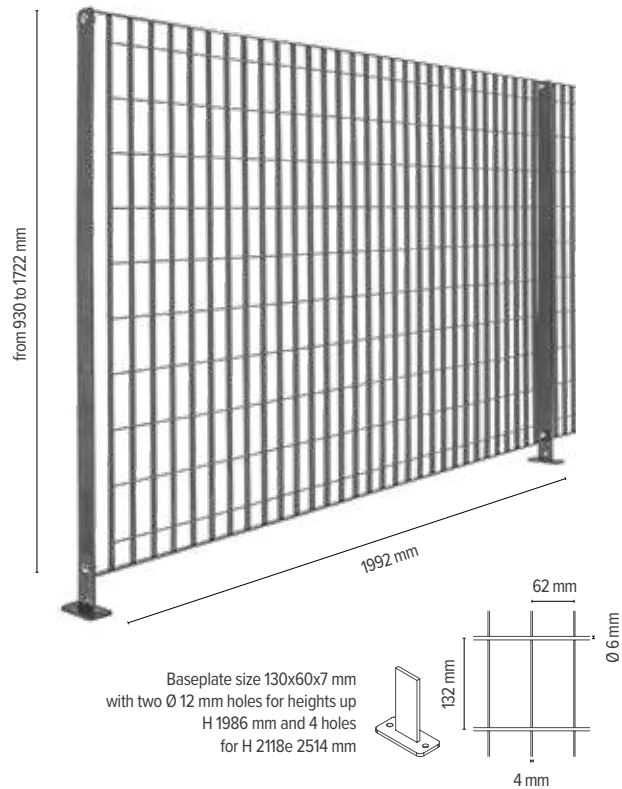
- > Single, double or sliding leaf gates

## APPLICATIONS

- > Industrial facility
- > Airports
- > Military sites
- > Infrastructures
- > Industrial areas
- > Residential areas
- > Custom areas

## PRODUCT SPECIFICATIONS

BRITOSTEROPE® electro-welded mesh fencing consists of modular monolithic panels, not joined nor welded side by side, with a height of .... mm, width 1992 mm, mesh size 62x132 mm, with 30x4 mm vertical flat bar (centres distance 62 mm) and 6 mm diameter horizontal round bars (centres distance 132 mm). The 30x4 mm flat bar horizontal frame elements are bent at the ends for a length of 40 mm and are slot drilled 12x16 mm. The horizontal frame elements are electro-welded to the vertical posts by fusion without additional material. Post centres distance: 2000 mm

Flat bar post  
60x7 mmIntermediate fixing  
brackets only for H 1986,  
2118 e 2514 mmAdjusting bracket  
(straight)MACS System  
> see pages 56-57

> see pages 61-62

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m²	mm	n°	mm	Kg/ea	mm	Kg/ea
930	1992	33,53	18,10	60x7	2	1210	4,4	1011	4,2
1194	1992	42,17	17,73	60x7	2	1494	5,4	1275	5,2
1326	1992	46,47	17,60	60x7	2	1625	5,9	1407	5,7
1458	1992	50,83	17,50	60x7	2	1758	6,4	1539	6,1
1722	1992	59,44	17,33	60x7	2	2015	7,3	1803	7,1
1986	1992	68,08	17,21	60x7	3	2336	8,5	2067	8,0
2118	1992	72,40	17,16	80x8	3	2470	13,7	2199	12,9
2514	1992	85,38	17,05	80x8	3	2915	16,1	2595	15,1



POSTS  
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ASSEMBLY  
SYSTEMS  
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ALARM  
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This is a high security fence system inspired by the most robust stadium boundaries and complies with the highest civil applications push load resistance standards. The horizontal steel plate welded directly to the post, as well as speeding up the installation operations, also makes the whole system extremely hard to be cut by shears and vandal proof. The visual permeability combines perfectly with the use of video surveillance devices for the complete effectiveness of this fencing system. The central “fascia” enhances the fence design and makes it possible to hide the anti-climb electronics, thanks to the MACS system that can be installed in an invisible and inaccessible way together with the fence or on a later stage.

### TECHNICAL DETAILS

#### Dimensions

- > Mesh 124x51mm
- > Horizontal flat bar 25x3mm thick
- > Vertical wires 4,5 mm diameter

#### Material

- > S235JR UNI EN 10025 Steel

#### Coating

- > Hot dip galvanizing according to UNI EN ISO 1461
- > Painting in polyester powders

#### Colours

- > RAL 6005 green, other RAL colours available on demand

#### Fixing system

- > M6x20mm stainless steel bolts

#### Posts

- > Special profile “C” section sized 80x40x23x12x2mm

#### Gates

- > Single, double or sliding leaf gates

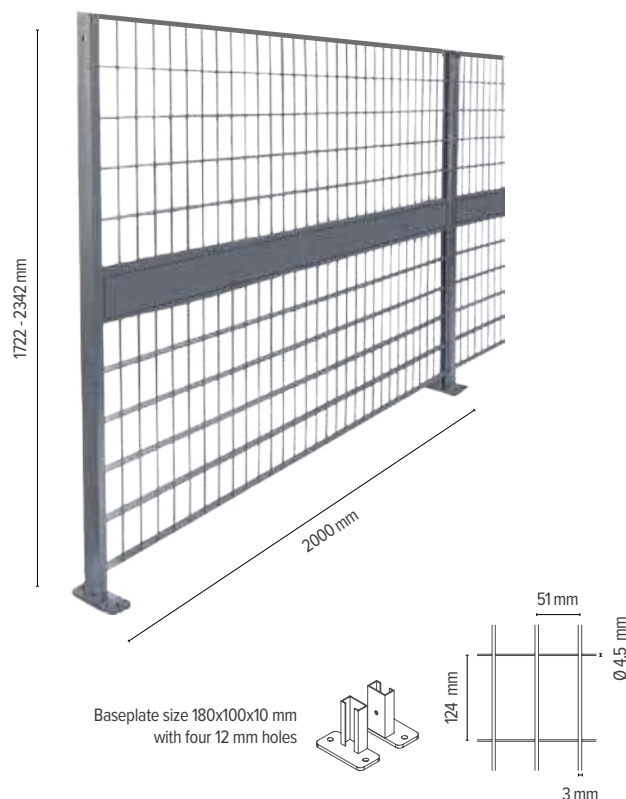
### PRODUCT SPECIFICATIONS

- > Industrial areas
- > Commercial areas
- > Railways
- > Telecommunication sites
- > Military sites
- > High security fencing
- > Airports and customs
- > Borders
- > Residential areas

### PRODUCT SPECIFICATIONS

ELETTRA® forge welded grating fence is made up of modular, monolithic, not joined or sided panels, height .....mm, width 2000 mm, mesh 124x51 mm, horizontal profiles in 25x3 mm flat bar, (centres distance 124 mm), vertical wire connection bars diameter 4.5 mm (centres distance 51 mm). They are supported by special “C” shaped posts profile 80x40x23x12x2 mm, welded at both mesh panel ends (left and right) to form a single piece ready for the installation and provided with holes for joining adjacent panels. Horizontal “fascia” in special “C” shaped profile 100x30x20x2 mm for housing the MACS anti-climb system.

Post centres distance: 2000 mm  
Heights: 2343 mm or 1722 mm



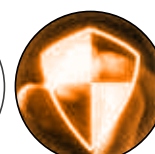
> see pages 61-64



Special profile “C” section sized 80x40x23x12x2 mm



M6x20 stainless steel hexagon head screw



MACS System  
> see pages 56-57



PANEL		POST		Post to be set in concrete	Post with base plate	MODULE	
H	L	“C” Section	Fixing points	L	L	Weight	Weight
mm	mm	mm	n°	mm	mm	Kg/ea	Kg/ea
1722	2000	80x40x23x12x2	welded	2040	1770	54,45	15,81
2342	2000	80x40x23x12x2	welded	2660	2390	67,82	14,48







STADION is a fence specifically developed for sport application, realized also thanks to the cooperation offered by the technical experts during the Football World Cup. This collaboration has given life to a fencing system specially designed for sports facilities, resisting the thrusts required by the UNI EN 13200 norms. This structure ensures good visibility, robustness and anti-climbing properties.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 124x51 mm
- > Horizontal flat bars 25x3 mm
- > Vertical round bars Ø 4,5 mm

### Material

- > S235 JR UNI EN 10025 steel

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Polyester powder coating

### Colours

- > RAL 6005 green, other RAL colours available on demand

### Fixing system

- > TTQST M10x30 security bolts in stainless steel

### Post

- > IPE100

### Gates

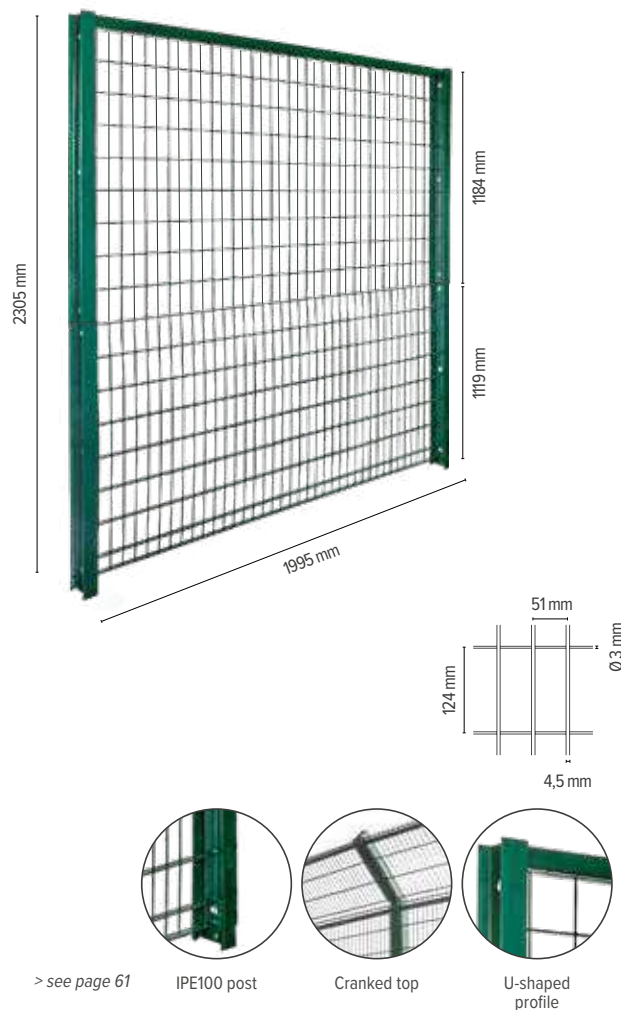
- > Safety gates built in compliance with the application laws on partitions in football grounds and stadiums

## APPLICATIONS

- > Football field fence
- > Sports centres
- > Athletic grounds
- > Sports facilities
- > Horse race tracks
- > Car race tracks

## PRODUCT SPECIFICATIONS

STADION welded grating fence respond to the push loads forces foreseen in the norm UNI EN 13200 and it is made up of modular monolithic panels not jointed together. BOTTOM PANEL: height 1119 mm, width 1995 mm, mesh 124x51 mm, 25x3 mm horizontal flat bars, Ø 4.5 mm vertical round connection bars, 25x4 mm drilled vertical sides frame bars. TOP PANEL: height 1184 mm, width 1995 mm, mesh 124x51 mm, 25x3 mm horizontal flat bars, Ø 4.5 mm vertical round connection bars, 25x4 mm drilled vertical sides frame bars. INCLINED TOP PANEL: height 564 mm, mesh 124x51 mm, 25x3 mm horizontal flat bars, Ø 4.5 mm vertical round connection bars, 25x4 mm drilled vertical sides frame bars. IPE100 post, length 2950 mm (or 2990+605 mm), drilled for connecting to the two panels and for anchoring the fence to the ground.



> see page 61

IPE100 post

Cranked top

U-shaped profile

	PANEL				POST		Post to be set in concrete	
	H	L	Weight		Section	Fixing points	L	Weight galv.
	mm	mm	Kg/ea	kg/m²	mm	n°	mm	Kg/ea
Without cranked top	1119	1995	18,5	8,3	IPE 100	6	2950	26,3
	1184	1995	25,3	10,7				
With cranked top	1119	1995	18,5	8,3	IPE 100	8	2990 + 605	32,0
	1184	1995	25,3	10,7				
	564	1995	14,2	12,6				



POSTS  
P. 61



ASSEMBLY  
SYSTEMS  
P. 64



Download

# TALIA® VENTUS

Thanks to the specific profiles, this product brings together elegance and privacy. With its refined design and the capability to preserve privacy, TALIA® VENTUS represents a typical product of Italian tradition, where attention to detail is a guarantee of quality and beauty. TALIA® VENTUS, is the only louvered fencing system certified for wind load, a characteristic the latter, granted by the post and panel integration, making the system even quicker and easier to install.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 46x132 mm
- > Horizontal Talia® profiles
- > Vertical round bars 4 mm

### Coating

- > S235JR UNI EN 10025 Steel

### Coating

- > Hot-dip galvanized according to UNI EN ISO 1461
- > Painting with polyester resins

### Colors

- > RAL 6005 green, other RAL colors available on demand

### Fixing system

- > TTQST M10x30 stainless steel security bolt

### Posts

- > 80x8 mm flat bar posts for concrete anchoring

### Gates

- > Single, double or sliding leaf gates

## APPLICATIONS

- > Luxury housing
- > Technical areas
- > Public buildings

## APPLICATIONS

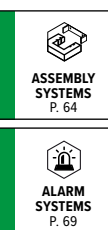
TALIA® VENTUS fencing consists of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centre distance 46 mm), 4 mm diameter round vertical joining bars (centre distance 132 mm). 80x8 mm flat bar posts welded at the ends, making up one single unit ready for installation, with pre-drilled holes to fix consecutive panels.

Post centre distance: 1650-2000 mm. Finish: painting with polyester resins on hot galvanized material according to UNI EN ISO 1461.



MACS system

&gt; see pages 56-57



PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	Kg/ea	kg/m²	mm	n°	mm	Kg/ea	mm	Kg/ea
954	1650	36,9	23,5	80x8	3	1200	6,6	1001	6,2
954	2000	41,9	22,0	80x8	3	1200	6,6	1001	6,2
1596	1650	60,0	22,8	80x8	3	1850	10,2	1643	9,8
1596	2000	68,6	21,5	80x8	3	1850	10,2	1643	9,8
1963	1650	74,1	22,9	80x8	3	2300	12,7	2010	11,8
1963	2000	84,8	21,6	80x8	3	2300	12,7	2010	11,8



# TALIA® SCREEN VENTUS

Product  
specification

Video



Download

Privacy first and foremost. This is the objective of TALIA® SCREEN VENTUS which thanks to a deeper louvered profile when compared with the standard TALIA® one, ensures a lower degree of see-through visibility. However, the absolute guarantee of quality and the high aesthetic value that sets apart the whole TALIA® range, made using quality materials and the typical Made in Italy style, it remains the same. TALIA® SCREEN VENTUS is the only louvered fencing system certified for wind load a characteristic the latter, granted by the post and the panel integration, making the system even quicker and easier to install.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 46x132 mm
- > Horizontal TALIA® SCREEN profiles
- > Vertical round bar 4 mm

### Material

- > S235JR UNI EN 10025 Steel

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Painting with polyester resins

### Colors

- > RAL 6005 green, other RAL colors available on demand

### Fixing system

- > TTQST M10x30 stainless steel security bolt

### Posts

- > 80x8 mm flat bar posts for concrete anchoring

### Gates

- > Single, double or sliding leaf gates

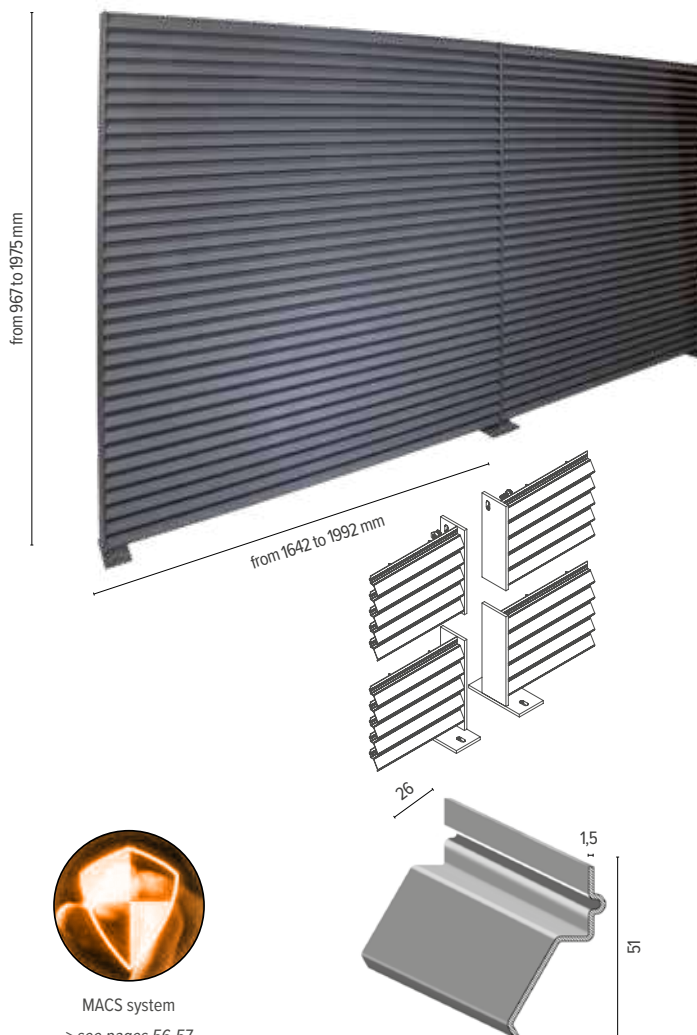
## APPLICATIONS

- > Luxury housing
- > Technical areas
- > Public buildings

## APPLICATIONS

TALIA® SCREEN VENTUS fencing consists of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centre distance 46 mm), 4 mm diameter round vertical joining bars (centre distance 132 mm). 80x8 mm flat bar posts welded at the ends, making up one single unit ready for installation, with pre-drilled holes to fix consecutive panels. Post centres distance: 1650-2000 mm.

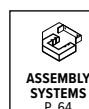
Finish: painting with polyester resins on hot galvanized material according to UNI EN ISO 1461.



MACS system

&gt; see pages 56-57

PANEL				POSTS		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	n°	mm	kg/cad	mm	kg/ea
967	1650	45,4	28,5	80x8	3	1200	6,6	1014	6,2
967	2000	52,4	27,1	80x8	3	1200	6,6	1014	6,2
1608	1650	74,0	27,9	80x8	3	1850	10,2	1655	9,8
1608	2000	85,5	26,6	80x8	3	1850	10,2	1655	9,8
1975	1650	91,2	28,0	80x8	3	2300	12,7	2022	11,8
1975	2000	105,4	26,7	80x8	3	2300	12,7	2022	11,8







# TALIALIVE

## TALIALIVE, LIFE AND ENVIRONMENT

Unique fencing system encompassing all the appeal of COR-TEN steel. Thanks to the ageing and oxidizing processes, the steel characterizing this system is a "live" material, changing its hues and nuances over time, thereby enhancing the architectural design with a play of light and shadow created by the cladding lamellas.

An elegant, pure, rigorous design for timeless architecture. TALIALIVE has been developed using a material that reinterprets traditional iron-working artisanship in a modern way. An original choice of high aesthetic value for design solutions.

## TALIALIVE, MODERN AND EFFICIENT

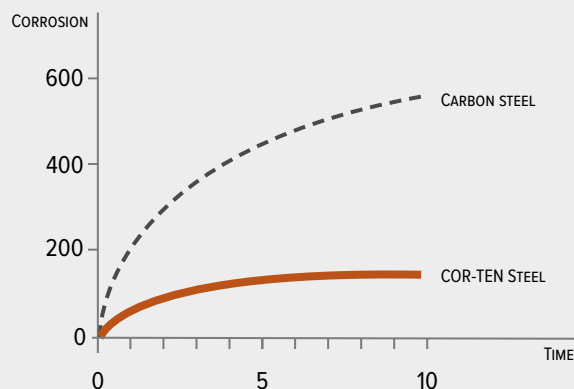
With its low content of alloying elements and high mechanical strength, COR-TEN steel has become increasingly popular in modern architecture that favours not only aesthetic but also maintenance-free and long life products. TALIALIVE encompasses all the features sought after by the most advanced building technology.

TALIALIVE guarantees:

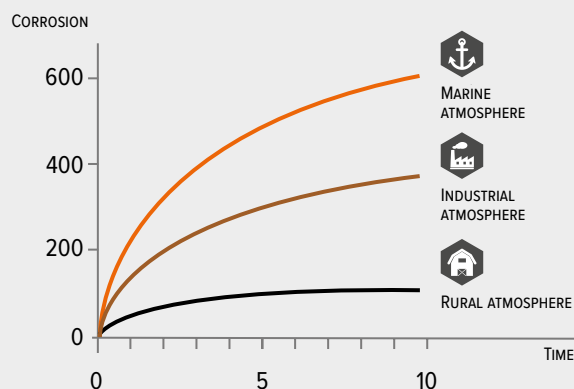
- > no maintenance costs
- > corrosion resistance five to eight times higher than carbon steel
- > high mechanical strength

## TALIA, MORE SOLUTIONS FOR YOUR PROJECT

From the development of new architectural solutions, TALIALIVE is an innovative "louvered" grating from the TALIA® family, designed for numerous applications: visual and environmental protection, shielding, façade cladding, curtain walling and complete fencing. The Talia modular system, which is obtained by welding shaped profiles and transversal wires together, features numerous strengths, namely versatility, attractive design, ease of use and installation. The longer special louvered profile in the TALIA SCREEN version increases the shielding characteristics and provides better protection against the wind and rain.



COR-TEN STEEL VERSUS CARBON STEEL



COR-TEN STEEL IN VARIOUS ATMOSPHERES





An elegant, pure, rigorous design for timeless architecture. TALIALIVE has been developed using a material that reinterprets traditional iron-working artisanship in a modern way. An original choice of high aesthetic value for design solutions. TALIALIVE preserves the privacy features typical of the fencing in this range. Maintenance costs are eliminated, thanks to a "live" material that, by taking on new hues and nuances with the passing of time, contributes to enhancing the overall design. Both in the standard and the Screen version, TALIALIVE is the only louvered grating fence certified for wind protection, thanks to the post and panel integrated (welded) system, which also ensures quick and easy installation.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 46x132 mm
- > TALIALIVE® and TALIALIVE SCREEN® horizontal/vertical profiles
- > Vertical/horizontal rounds bars Ø 4 mm

### Material

- > COR-TEN S355JOWP Steel

### Coating

- > Possible pickling

### Fixing system

- > TTQST M10x30 stainless steel or Nerinox security bolts

### Posts

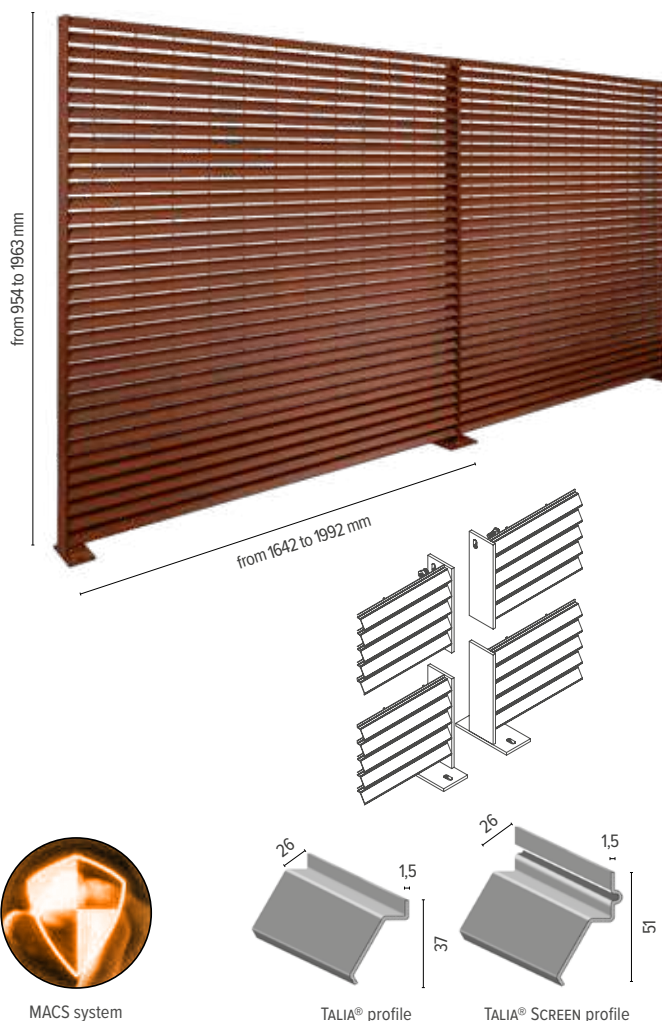
- > Flat 60x7 mm or bespoke on demand

## APPLICATIONS

- > Luxury housing
- > Technical areas
- > Public building

## PRODUCT SPECIFICATION

TALIALIVE and TALIALIVE SCREEN fencing is made up of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centres distance 46 mm), Ø 4 mm round vertical joining bars (centres distance 132 mm) and 60x7 mm flat posts welded at both sides ends, making up one single unit ready for installation, with appropriate holes for fixing adjacent panels. Centres distance: 1650-2000 mm. Material: COR-TEN steel Coating: possible pickling



> see pages 56-57

## TALIALIVE

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	n°	mm	kg/ea	mm	kg/ea
954	1650	32,4	20,6	60x7	3	1200	3,9	1001	3,9
954	2000	37,3	19,6	60x7	3	1200	3,9	1001	3,9
1596	1650	53,1	20,2	60x7	3	1850	6,1	1643	6,0
1596	2000	61,6	19,3	60x7	3	1850	6,1	1643	6,0
1963	1650	65,4	20,2	60x7	3	2300	7,6	2010	7,2
1963	2000	75,7	19,3	60x7	3	2300	7,6	2010	7,2

## TALIALIVE SCREEN

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m²	mm	n°	mm	kg/ea	mm	kg/ea
967	1650	41,0	25,7	60x7	3	1200	3,9	1014	3,9
967	2000	47,7	24,7	60x7	3	1200	3,9	1014	3,9
1608	1650	67,1	25,3	60x7	3	1850	6,1	1655	6,0
1608	2000	78,4	24,4	60x7	3	1850	6,1	1655	6,0
1975	1650	82,4	25,3	60x7	3	2300	7,6	2022	7,2
1975	2000	96,7	24,5	60x7	3	2300	7,6	2022	7,2





# GATES

We offer both standard and custom-made gates in compliance with the highest safety and sturdiness standards, with guaranteed quality and design. They are available in four different types with CE marking.

## APPLICATIONS

- > Railways
- > Industrial plants
- > Telecom sites
- > FOB (Military)
- > Airports
- > High security fences
- > Customs area
- > Boundary fences
- > Residential areas
- > Luxury housing
- > Technical areas
- > Old town centres
- > Car race tracks
- > Public buildings and schools
- > Commercial areas
- > Sports facilities

## FLASH GATES

Standard sized single pedestrian or double leaf gates made by a lightweight frame system. Thanks to their simple design, affordable price and availability from stock, they are ideal for a number of various

applications. The flash gates are supplied with hot-dip galvanized and powder coated profiles and wire mesh infill panels.



## TAILORED GATES

Specially made to suit specific projects, they have a robust structure and are ideal for professional applications and where elegance is required. Their profiles are hot-dip galvanised and powder coated and

the infill panels match with the fencing system. Pedestrian, double swing or sliding gates are the available options.







## SG GATES

Hot-dip galvanized after welding, SG gates are customized using tubular profiles and panels matching with the fencing system: grating, tubular, profiled or ANTICLEA®. Designed for application in professional

and luxury settings, pedestrian, double swing or sliding gates are the available options. Paint coating available on request.



## SPORT GATES

Gates for sports facilities complying with the space separation and security in playgrounds and sports facilities current regulations. Available for both pedestrian and vehicular use, with CE marking and

according to the UNI EN 13200 norm (on request), both in the Stadium grating version and the Stadium welded wire one.



# III Wall cladding





# TALIA® / SCREEN / TALIALIVE

With its many variants, the range of TALIA® fencing is the ideal solution to meet the aesthetic requirements of both new projects and the growing demand for the renovation of new building structures.

The elegant linear profile blends harmoniously with all settings, from the most modern hi-tech solution to that in tune with nature. All this is possible thanks to the wide offer of finish available (hot-dip galvanized and painted) and the materials used. Among these, NUOVA DEFIM ORSOGRIL offers the exclusive TALIALIVE, which combines the unique style of TALIA® with the properties of COR-TEN steel, such as warm and "live"; colors, no need of maintenance, an advantage that is particularly appreciated for installations at height altitude.

The TALIA® profile is available in the STANDARD and SCREEN versions to meet different shielding requirements. The panels are installed in collaboration with the technical office, using either standard products, or custom solutions for specific projects. The lack of surface finish in the TALIALIVE version speeds up delivery times and makes it possible to make on-site corrections, without compromising aesthetics.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 46x132 mm
- > TALIA® and TALIA® SCREEN horizontal/vertical profiles
- > Vertical/horizontal round bars Ø 4 mm

### Material

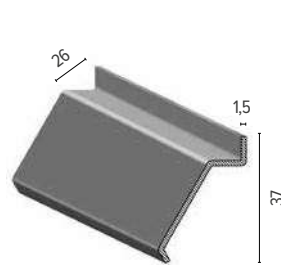
- > S235 JR UNI EN 10025 steel
- > COR-TEN steel S355 JOWP

### Coating

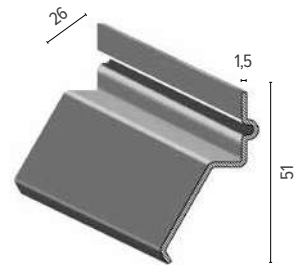
- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Polyester powder coating
- > Possible oxidation aid by pickling (COR-TEN))

## PRODUCT SPECIFICATIONS

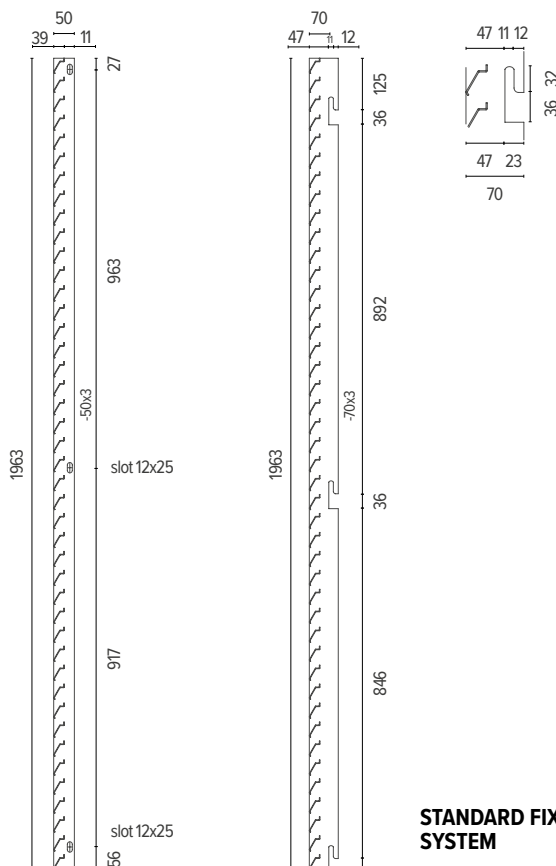
Wall cladding system consisting of S235 JR slatted steel or COR-TEN steel, 46x132 mm mesh size, welded to 4 mm diameter vertical round bars.



TALIA® profile®



TALIA® SCREEN profile

STANDARD FIXING  
SYSTEM





TETI® is the new exclusive wall cladding system by NUOVA DEFIM ORSOGRIL made up of shaped metal profiles welded to 4 mm diameter vertical round bars. It is available with both solid and micro-perforated profile version, which enhances permeability and elegance. The unframed panel can be fixed directly to the structure. This characteristic makes the installation quick, cost-effective and versatile for original projects.

## TECHNICAL DETAILS

### Dimensions

- > Mesh 116x200 mm
- > Horizontal profiles
- > Vertical round bars 5 mm

### Material

- > S235 JR UNI EN 10025 steel (solid profile)
- > S235 JR UNI EN 10025 Sendzimir steel (micro-perforated profile)

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Polyester powder coating

### Fixing system

- > From front with self-tapping screws

## PRODUCT SPECIFICATIONS

Teti wall cladding system consists of modular monolithic panels, mesh size 116x200 mm, special section horizontal profiles (centres distance 116 mm), 5 mm diameter round bar vertical connections (centres distance 200 mm).

### SOLID PROFILE

Material: S235JR UNI EN 10025 steel

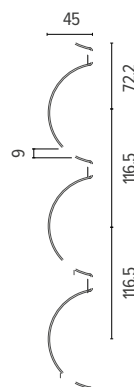
### MICRO-PERFORATED PROFILE

Material: S235JR UNI EN 10025 Sendzimir steel.

Finish: polyester powder coating on hot-dip galvanised material according to UNI EN ISO 1461, or on Sendzimir steel.

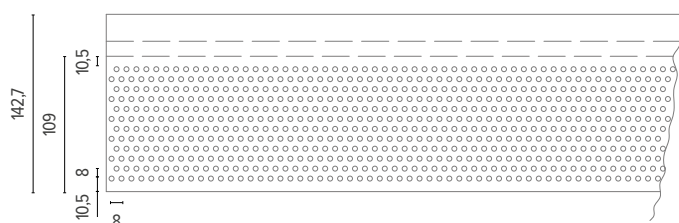
Front fixing system with self-tapping screws. The use of a fixing element per profile is recommended.

Panel sizes 5500x1972 mm.



PANEL				MESH		CROSS WIRE
H	L	Weight		H	L	Ø
mm	mm	Kg/ea	kg/m²	mm	mm	mm
1972	5500	167,7	15,5	116	200	5

## MICRO-PERFORATED PROFILE





# VERTICAL SEMI-FINISHED GRATING

As a complement to the assortment of fencing products, NUOVA DEFIM ORSOGRIL offers a large number of semi-finished products in standard sizes (see table), with self-colour or hot-dip galvanized finish, for metal fabricators, blacksmiths and steel stockholders that wish to customise their fencing, steelworks, wall cladding project.

## TECHNICAL DETAILS

### Material

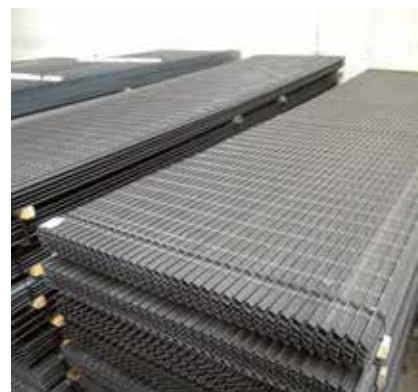
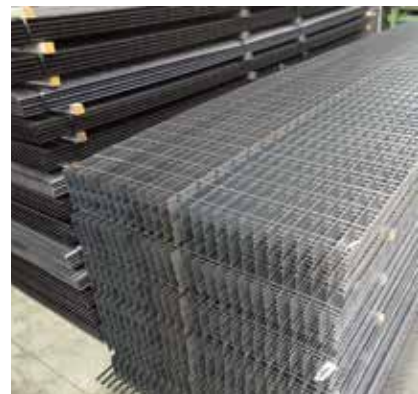
- > S235 JR UNI EN 10025 steel
- > COR-TEN steel

### Coating

- > Hot-dip galvanizing according to UNI EN ISO 1461
- > Possible pickling (COR-TEN)



TYPE	PANEL			MESH		BEARING BAR		CROSS WIRE	PACKAGING
	H mm	L mm	Weight Kg/ea	A mm	B mm	H mm	S mm	Ø mm	n. pieces -
DIONE	6000	1136	77,8	42	44	25	2	4	10
DANAE	5900	1136	64,9	42	132	25	2	4	10
PLEIONE	5900	1552	71,2	62	66	25	2	4,5	10
	5900	1862	85,0	62	66	25	2	4,5	10
STEROPE 2	5900	1552	63,2	62	132	25	2	4,5	10
	5900	1862	75,5	62	132	25	2	4,5	10
STEROPE 3	5900	1553	92,3	62	132	25	3	4,5	10
	5900	1863	110,2	62	132	25	3	4,5	10
BRITOSTEROPE	5900	1864	180,9	62	132	30	4	6	10
TALIA	5400	1596	117,9	46	132	sp. 1,5		4	5
	5400	1963	145,0	46	132			4	5
	6100	1596	130,8	46	132			4	5
	6100	1963	160,8	46	132			4	5
TALIA SCREEN	5400	1610	154,7	46	132	sp. 1,5		4	5
	5400	1975	190,0	46	132			4	5
	6100	1610	171,6	46	132			4	5
	6100	1975	210,7	46	132			4	5
TETI	5500	1972	163,5	116	200	sp. 1,5		5	5
TETI MICRO-PERFORD 1 SENDZIMIR	5500	1972	152,6	116	200	sp. 1,5		5	5
MEROPE	5990	1862	54,7	124	62	25	2	4,5	10
ANTICLEA	6100	1000	77,1	ANTICLEA		25	6	12	5
	6100	1200	86,8			25	6	12	5
	6100	1500	101,5			25	6	12	5
	6100	1800	130,2			25	6	12	5
	6100	2000	140,0			25	6	12	5





# MACS FENCES

Download



The most advanced electronic techniques incorporated into the solidity of Nuova Defim Orsogril fencing systems. With MACS (MEMS-based anticlimbing system) attempts to break in or climb over fences are detected accurately and distinguished from natural or accidental events. With its easy installation and remote monitoring capability, the system is an important improvement in perimeter security. Thanks to its self-learning technology is adaptable to any project, fits to any fence type and it can be set in real time.

## TECHNICAL CHARACTERISTICS

### MANAGEMENT SOFTWARE

#### CONNECTIONS

A compatible internet browser without requiring any additional installations

#### NUMBER OF ZONES

Up to 32 zones with an unlimited number of sensors freely programmable towards an output

#### NUMBER OF CONFIGURATIONS

Up to 32 saveable

#### ALARMS

Pre-alarm / Alarm / Tampering / Failure

#### INSTALLATION

- > Sensor self-initialization
- > Automatic sensors detection on bus
- > Possible replacement of every single sensor
- > Possible FW Sensor and master upgrading

#### PROGRAMMING

Real-time parameter setting with feed-back

#### BACK-UP

Sensor detection through magnet

#### USERS MANAGEMENT

Up to 3 user levels with different credentials and authorization

### SENSOR

#### OVERALL DIMENSIONS

89x73x25.5 mm

#### IP PROTECTION RATE

IP67

#### RELATIVE HUMIDITY

0-100%

#### MATERIAL

Fiberglass reinforced Nylon (PA66), resin sealed, UV rays resistant

#### FIXING SYSTEM

With one central screw:

- > Counter-plate for fixing on mesh fencing or netting
- > Self-tapping screw on metal surface (post)

#### COVERING AREA

Maximum 3 x 6 m (With sensor positioned mid-way with respect to the panel)

#### CHAINS CONFIGURATION

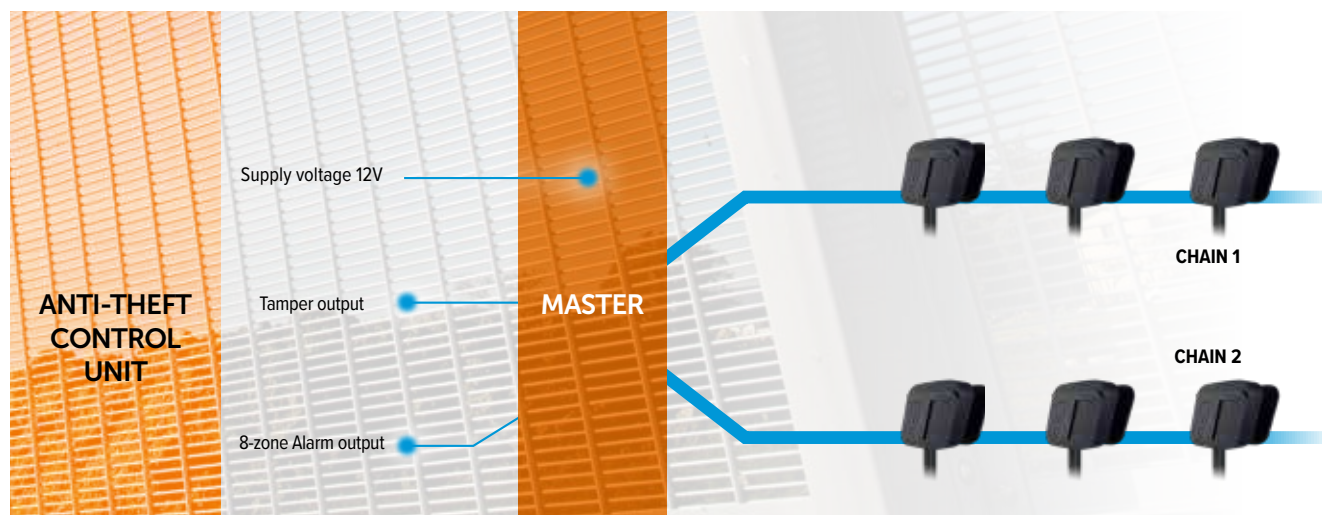
- > Up to max. 120 sensors for communication bus system (2no. bus units per master)
- > Max. 20 sensors 3 meters pitch chains (2,5 meters actual distance between adjacent sensors)
- > Max. 20 sensors 6 meters pitch chains (5 meters actual distance between adjacent sensors)

## PRODUCT SPECIFICATION

Integrated or semi-integrated anti climbing boundary system for fencing, complete with Ethernet network board, 4no. digital input doors and 8no. NC output doors + tamper, master IP67 able to control two sensors chains using MEMS technology and IP68 protection level. All is powered by a network board and controlled by a dedicated web interface remotely programmable.

## APPLICATIONS

- > Residential areas
- > Industrial areas
- > Commercial areas
- > Parks
- > Railways
- > Telecommunication sites
- > Military sites
- > High security fencing
- > Airports and customs
- > Borders
- > Car park
- > Strategic installations
- > Photovoltaic installation

ALARM  
SYSTEM  
P. 69





Download

# MACS FENCES INTEGRATED

MACS is specifically designed to be integrated harmoniously and functionally to Recintha Safety and Elettra models. A new and safer security system is thus defined to guarantee an elegant and perfectly integrated design respecting the Italian style; invisible and inaccessible sensors and cables in addition to a pre-calibrated system designed for Nuova Defim Orsogrill fence systems completes the offer.

## TECHNICAL CHARACTERISTICS

### NETWORK BOARD (MACS-ETH)

#### POWER SUPPLY

12 Vcc - 3 A

#### FIXING SYSTEM

Din bar support

#### BOARD SIZE

146 x 84 mm

#### DIGITAL INPUT

4no. digital inputs

#### NUMBER OF NC OUTPUT

8 + 1 tamper

#### TYPE OF NC OUTPUT

Optomos relay: 60Vmax, 400mA,  
Contact resistance 2 ohm

#### TYPE OF COMMUNICATION

Ethernet door

#### DIGITAL MEMORY

> 10000 events

### MASTER (MACS-MAS)

#### POWER SUPPLY

From network board

#### FIXING SYSTEM

Din bar support in a watertight box

#### TYPE OF CONTAINER

Watertight aluminium alloy box

#### IP PROTECTION RATING

IP66

#### CONTAINER SIZES

140 x 115 x 61 mm

#### DIGITAL INPUTS

Tamper input

#### NUMBER OF NC OUTPUT

1

#### TYPE OF NC OUTPUT

Optomos

#### CONNECTIONS

2no. communication bus systems  
towards sensors, 1no. communication  
bus systems towards the network  
board, W-Sync



UN SENSORE OGNI 2 PANNELLI



1 SENSOR EVERY 2 PANELS



## MACS FENCES EXTERNAL

MACS advanced electronics has been developed to extend all intelligent protection advantages to a wide range of Nuova Defim Orsogrill enclosures. Thanks to the sensors compact design, MACS system is integrated in a distinctive and elegant way with the complete range of our offer. You can choose different cable colors to match the project style. The single central screw mechanism, grants a quick and easy installation. MACS is compatible with: **Recintha N/L, 202, Sterope, Pleione, Britosterope and with the Talia style.**



# Accessories



Download



**ACCESSORIES**

[http://www.nuovadefim.com/it/content/  
download-area](http://www.nuovadefim.com/it/content/download-area)



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# POSTS

Product specification



Download



## SQUARE POST 60X60 mm

- > Square post 60x60 mm thickness 1,2 mm
- > Hot-dip galvanized and polyester powder coated finish
- > Available models: with base plate or for concrete anchoring
- > Base plate size: 150x80x4 mm with four Ø 12 mm holes

### Accessory for

- > RECINTHA® N/L [PAGE 28]
- > RECINTHA® N/L YOUNG [PAGE 29]
- > RECINTHA® 202 [PAGE 30]
- > RECINTHA® P.G. [PAGE 31]

### Product code

RCPN0060XXXX



## ANTICLEA POST Ø 50 mm

- > Ø 50 mm round post, thickness 2 mm
- > Material: hot-dip galvanized steel according to UNI EN ISO 1461, polyester powder coated finish also available
- > Available models: with base plate, or for concrete anchoring
- > Base plate size: 130x60x7 mm with two Ø 12 mm holes
- > Slot provided for fixing straight fence sections or corners

### Accessory for

- > ANTICLEA® [PAGE 39]

### Product code

PIA50XXXX



## ROUND POST Ø 40 mm

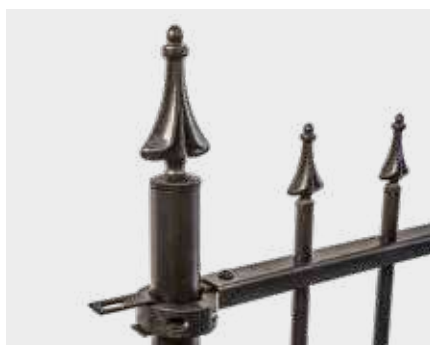
- > Ø 40 mm round post, thickness 1,2 mm
- > Hot-dip galvanized and polyester powder coated finish
- > Available models: with base plate, or for concrete anchoring
- > Base plate size: 150x80x4 mm with four Ø 12 mm holes

### Accessory for

- > RECINTHA® N/L [page 28]
- > RECINTHA® N/L YOUNG [page 29]
- > RECINTHA® P.G. [page 31]

### Product code

RCPC0040XXXX



## ROUND POST Ø 40 mm "GIGLIO" STYLE

- > Ø 40 mm round post, thickness 1,2 mm, zinc alloy top decorations
- > Hot-dip galvanized and micaceous grey polyester powder coated finish
- > Available models: with base plate, or for concrete anchoring
- > Base plate size: 150x80x4 mm with four Ø 12 mm holes

### Accessory for

- > RECINTHA® GIGLIO [page 40]

### Product code

RGPN0000XXXX



## RECTANGULAR POST 60x120 mm

- > 60x120 mm rectangular post thickness 2 mm
- > Hot-dip galvanized and polyester powder coated finish
- > Available models: for concrete anchoring
- > With either threaded inserts to suit mesh clips, or with cover plate and securitybolt.

### Accessory for

- > RECINTHA® SAFETY [page 32]

### Product code

RGPNSPECIALEXXX



## OMEGA POST & FLAT COVER PLATE 60x40x25x3 mm

- > 60x40x25 mm Omega post with 90x4 mm cover plate
- > Predrilled for security bolt installation
- > Hot-dip galvanized and polyester powder coated finish
- > Available models: for concrete anchoring

### Accessory for

- > RECINTHA® 202 [page 30]
- > RECINTHA® SAFETY [page 32]

### Product code

RCOM3060XXXX

Piatto: RCPT4090XXXX



# POSTS

Product  
specification



Download



## OMEGA POST & FLAT COVER PLATE 120x60x30x3 mm

- > 120x60x30x3 mm Omega post with 120x4 mm cover plate
- > Predrilled for security bolt installation
- > Hot-dip galvanized and polyester powder coated finish
- > Available models: for concrete anchoring

### Accessory for

- > RECINTHA® 202 [page 30]
- > RECINTHA® SAFETY [page 32]
- > RECINTHA® STADIUM [page 33]

### Product code

RCOM3120XXXX  
Flat plate: RCPT40120XXXX



## FLAT BAR POST 80x8 mm

- > 80x8 mm flat bar post for grating panels over 2 meters height
- > Material: hot-dip galvanized steel according to UNI EN ISO 1461; polyester powder coated finish also available
- > Available models: with base plate or for concrete anchoring
- > Base plate size 150x80x8 mm with four Ø 12 mm holes
- > Provided with 3 fixing holes, one of which is for intermediate fixing > see page 62

### Accessory for

- > STEROPE® [page 41]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

### Product code

PIA808XXXX



## FLAT BAR POST 60x7 mm

- > 60x7 mm flat bar post for grating panels up to 2 meters height
- > Material: hot-dip galvanized steel according to UNI EN ISO 1461; polyester powder coated finish also available
- > Available models: with base plate or for concrete anchoring
- > Base plate size 130x60x7 mm with two Ø 12 mm holes
- > Provided with 2 fixing holes; for H 1986 mm panels, post is equipped with an extra central hole for intermediate fixing > see page 62

### Accessory for

- > STEROPE® [page 41]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]
- > ACUMINA® [page 37]
- > CELENO® [page 38]

### Product code

PIA607XXXX



## WELDED "C" SECTION POST 80x40x23x12 mm

- > 80x40x23x12 mm C section post thickness 2 mm, directly welded to Elettra panel
- > Material: hot-dip galvanized steel according to UNI EN ISO 1461; polyester powder coated finish also available
- > Available models: with base plate or for concrete anchoring
- > Base plate size 180x100x10 mm with two Ø 12 mm holes
- > Provided with a top hole for fixing each panel to the next one

### Accessory for

- > ELETTRA [page 44]



## IPE100 POST

- > IPE 100 mm post
- > Material: hot-dip galvanized steel according to UNI EN ISO 1461; polyester powder coated finish also available
- > Available model for concrete anchoring

### Accessory for

- > STADION® [page 45]

### Product code

PIA11XXXX



## CUSTOM MADE POSTS FOR SPECIFIC PROJECTS

- > Post with different profile can also be provided for specific requirements

### Accessory for

- > all fencing system [with the exception of DEFENDER]

### Product code

For grating fences: PIASPEC....  
For mesh fences: RCPNSPEC....



## FIXING SYSTEMS

### MP UNIVERSAL CLIP 60x60 mm SQUARE POST

- > MP (Multi-Purpose) universal joint clip in black reinforced plastic
- > It offers different types of fixing solutions, using either the sides or the central notches (check the post centres distance on the technical table)
- > Specifically designed shape to facilitate stepped and/or all degrees corner installation
- > NUOVA DEFIM SpA patent registered

#### Accessory for

- > RECINTHA® N/L [page 28]
- > RECINTHA® N/L YOUNG [page 29]
- > RECINTHA® 202 [page 30]
- > RECINTHA® P.G. [page 31]

#### Product code

49001023INOX



## FIXING SYSTEMS

### CRAB-TYPE CLIP Ø 40 mm ROUND POST

- > Crab-type clip in black reinforced plastic
- > It offers different types of fixing solutions, using either the sides or the central notches (check the post centres distance on the technical table)
- > Specifically designed shape to facilitate stepped and/or all degrees corner installation

#### Accessory for

- > RECINTHA® N/L [page 28]
- > RECINTHA® N/L YOUNG [page 29]
- > RECINTHA® P.G. [page 31]
- > RECINTHA® GIGLIO [page 40]

#### Product code

GRANCHIOXXX



## FIXING SYSTEMS

### HIDDEN PIN

- > Fully hidden fixing system
- > Although invisible one installed, it guarantees security

#### Accessory for

- > ANTICLEA® [page 39]

#### Product code

SPINETTANTICZ



## FIXING SYSTEMS

### MESH CLIP

- > Predrilled fixing clip
- > Easy to install, it guarantees a high level of security
- > Available both in hot-dip galvanized and polyester powder coated finish

#### Accessory for

- > RECINTHA® SAFETY [page 32]

#### Product code

MESHCLIPX...



## ACCESSORIES

### INTERMEDIATE BRACKET

- > Optional fixing bracket for grating systems only when exceeding H 1986 mm (always provided for the specified sizes)
- > The special "fork" shape improves the rigidity of the panel
- > Material: electro-galvanized finish

#### Accessory for

- > STEROPE® [page 41]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

#### Product code

ATTINXXX...



## ACCESSORIES

### STRAIGHT BRACKET

- > Bracket to joint on site cut to size grating fence panel to post
- > Material: electro-galvanized finish
- > Polyester powder coated finish also available

#### Accessory for

- > STEROPE® [page 41]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

#### Product code

SQUETLX...



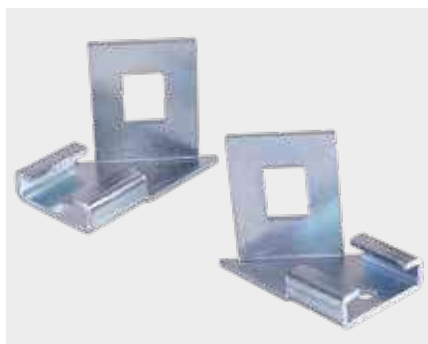


# ASSEMBLY SYSTEMS

Product  
specification



Download



## ACCESSORIES

### 45° BRACKET

- > Bracket to joint on site cut to size grating fence corner panels to post
- > Material: electro-galvanized finish
- > Polyester powder coated finish also available

#### Accessory for

- > STEROPE® [page 41]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

#### Product code

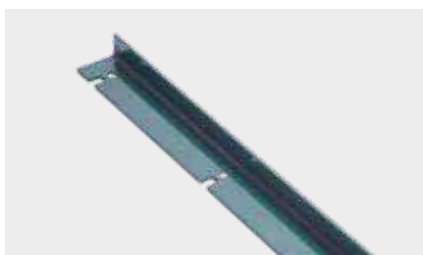
Right: SQUTEL45DXXXX  
Left: SQUTEL45SXXXX

# FENCING ACCESSORIES

Scheda  
Tecnica



Download



## FIXING SYSTEMS

### ANTI-INTRUSION SPIKES

- > Optional anti-intrusion accessory to fix to the grating fence system top
- > Length 1992 mm - H 55 mm approximately
- > Hot-dip galvanized finish according to UNI EN ISO 1461 norm
- > Polyester powder coated finish also available

#### Accessory for

- > STEROPE® [page 41]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]
- > ELETTRA [page 44]

#### Product code

Hot-dip galvanized: KITANTINTRUSZ  
Paint coated: KITANTINTRUSV

## ACCESSORIES

### INCLINED EXTENSION FOR ALL SQUARE, RECTANGULAR AND OMEGA POSTS IN L SECTION 50x30x4 mm

- > Fencing accessory to install barbed wire
- > Provided with 3 holes to fix barbed wire
- > Single or double version available on demand
- > Material: Hot-dip galvanized
- > Polyester powder coated finish also available
- > Suitable for posts: 60x60 mm square tube, 60x7 mm and 80x8 mm flat bar, 60x40 mm and 120x60 mm Omega sections

#### Accessory for

- > RECINTHA® N/L [page 28]
- > RECINTHA® N/L YOUNG [page 29]
- > RECINTHA® 202 [page 30]
- > RECINTHA® SAFETY [page 32]

#### Product code

RCPNOFFENDXXX



## SCREW BOLTS



### M6X20 TTQST SS SCREW M6 SS SECURITY BOLT

**Accessory for**  
> RECINTHA® STADIUM [page 33]  
**Product code**  
BULANT0620INOX



### M6X20 HEXAGON HEAD SCREW M6 SS HEXAGON BOLT

**Accessory for**  
> ELETTRA [page 44]  
**Product code**  
BUL0620INOX



### M6X35 TTQST SS SCREW M6 SS SECURITY BOLT

**Accessory for**  
> RECINTHA® SAFETY [page 32]  
> RECINTHA® STADIUM [page 33]  
**Product code**  
BULANT0635INOX



### M8X20 TTQST SS SCREW M8 SS SECURITY BOLT

**Accessory for**  
> RECINTHA® STADIUM [page 33]  
**Product code**  
BULANT0820INOX



### 8X20 TBEI NERINOX SCREW M8 SS KNURLED FLANGED BOLT

**Accessory for**  
> RECINTHA® GIGLIO [page 40]  
**Product code**  
NOT SOLD SEPARATELY



### M8X35 TTQST SS SCREW M8 SS SECURITY BOLT

**Accessory for**  
> RECINTHA® SAFETY [page 32]  
**Product code**  
BULANT0835INOX

1

### M8X60 TTQST SS SCREW M8 SS SECURITY BOLT

**Accessory for**  
> RECINTHA® SAFETY [page 32]  
**Product code**  
BULANT0860INOX

2

### M8X80 TTQST SS SCREW M8 SS SECURITY BOLT

**Accessory for**  
> RECINTHA® SAFETY [page 32]  
> RECINTHA® STADIUM [page 33]  
**Product code**  
BULANT0880INOX



3

### M10X30 TTQST SS SCREW M10 SS SECURITY BOLT

**Accessory for**  
> ACUMINA® [page 37]  
> CELENO® [page 38]  
> STEROPE® [page 41]  
> PLEIONE® [page 42]  
> BRITOSTEROPE® [page 43]  
> STADION® [page 45]  
> TALIA® VENTUS [page 46]  
> TALIA® VENTUS SCREEN [page 47]  
> TALIALIVE [page 48]  
**Product code**  
BULANT1030INOX

4

### M10X30 HEXAGON HEAD SCREW M10 SS HEXAGON BOLT

**Accessory for**  
> ACUMINA® [page 37]  
> CELENO® [page 38]  
> STEROPE® [page 41]  
> PLEIONE® [page 42]  
> BRITOSTEROPE® [page 43]  
> STADION® [page 45]  
> TALIA® VENTUS [page 46]  
> TALIA® VENTUS SCREEN [page 47]  
> TALIALIVE [page 48]  
**Product code**  
BUL1030INOX





### SQUARE CAP 60x60 mm

- > The cap fully seals off the post, preventing the entry of water
- > Material: Moplen®

#### Accessory for

- > RECINTHA® N/L [pag. 28]
- > RECINTHA® N/L YOUNG [pag. 29]
- > RECINTHA® 202 [pag. 30]

#### Product code

RCAC00000006



### ROUND CAP Ø 50 mm

- > The cap fully seals off the post, preventing the entry of water
- > Material: Moplen®

#### Accessory for

- > ANTICLEA® [page 39]

#### Product code

TAPPIATUBO50



### ROUND CAP Ø 40 mm

- > The cap fully seals off the post, preventing the entry of water
- > Material: Moplen®

#### Accessory for

- > RECINTHA® N/L [page 28]
- > RECINTHA® N/L YOUNG [page 29]
- > RECINTHA® P.G. [page 31]

#### Product code

RCAC00000026



### RECTANGULAR CAP 120x60 mm

- > The cap fully seals off the post, preventing the entry of water
- > Material: Moplen®

#### Accessory for

- > RECINTHA® SAFETY [page 32]

#### Product code

RCAC00000007



### OMEGA POST CAP 120x60 mm

- > Omega post cap in pre-galvanized and painted steel

#### Accessory for

- > RECINTHA® 202 [page 30]
- > RECINTHA® SAFETY [page 32]

#### Product code

LAMCHIUSXXX





## "U" SECTION PROFILE 35x40x5 mm

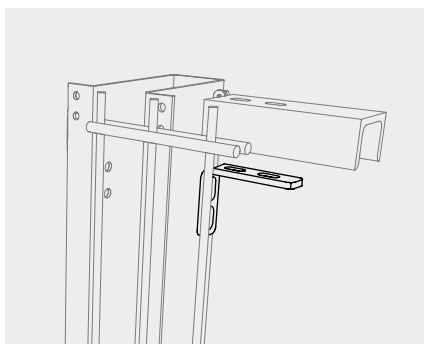
- > "U" section profile used on RECINTHA® STADIUM upper part to strengthen the system
- > Material: hot-dip galvanized and polyeste powder coated finish

### Accessory for

- > RECINTHA® STADIUM [page 33]

### Product code

RCCU4035XXXX



## POST/PROFILE FIXING BRACKET

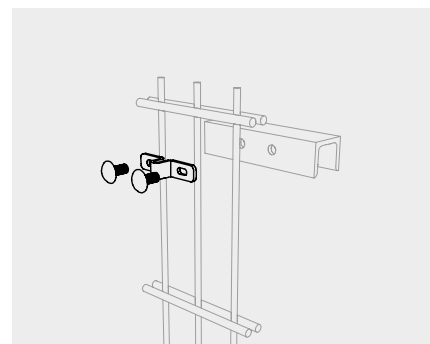
- > RECINTHA® STADIUM accessory
- > Using for fixing the U section profile to the Omega post
- > Material: hot-dip galvanized and polyester powder coated finish

### Accessory for

- > RECINTHA® STADIUM [page 33]

### Product code

RCSQ520014X



## POST/PANEL FIXING CLIPS

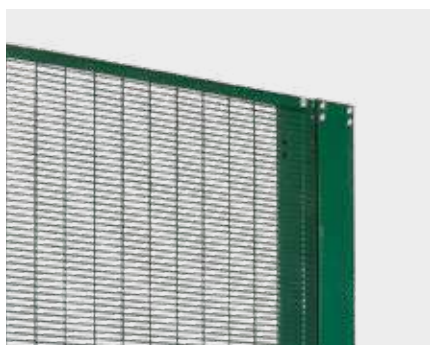
- > RECINTHA® STADIUM accessory
- > Using for fixing the panel to the U section profile
- > Material: hot-dip galvanized and polyester powder coated finish

### Accessory for

- > RECINTHA® STADIUM [page 33]

### Product code

RCSQ03150097X



## RAILING BARS (TOP AND BOTTOM)

- > RECINTHA® SAFETY "U" section profile optional accessories
- > Makes RECINTHA SAFETY installation easier and improves its straightness
- > Can be installed either at panel top or bottom and at both
- > Screwed to the mesh
- > Material: hot-dip galvanized and polyester powder coated finish
- > 30x16x30 mm U-shaped profile predrilled to fix it to the panel

### Accessory for

- > RECINTHA® SAFETY [page 32]

### Product code

RCOM303016V



## HANDRAIL

- > To hide panel spikes, making RECINTHA N/L short sizes suitable in playgrounds
- > Length 2000 mm or 2500 mm
- > Tube Ø 40 mm, thickness 1,2 mm
- > Produced with a cut in the length to slide it in the panel top
- > Material: hot-dip galvanized and polyester powder coated finish

### Accessory for

- > RECINTHA® P.G. [page 31]

### Product code

RCCM00402000...



## HANDRAIL JOINT/CORNER CONNECTION

- > RECINTHA PG accessory providing continuity in curved or straight handrail section
- > Material Moplen®

### Accessory for

- > RECINTHA® P.G. [page 31]

### Product code

Handrail joint:

RCAC00000003

Handrail corner connection:

RCAC00000025



# DEFENDER ACCESSORIES

Product  
specification



Download



## GATE KIT

- > Accessory for DEFENDER HD PLUS pedestrian and vehicular gates
- > Used to join the gate to the DEFENDER HD PLUS, acting as a "hinge"
- > Material: hot-dip galvanized and high-visibility (RAL 2004)

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER CITY [page 36]

### Product code

DFKTB00000010



## PEDESTRIAN GATE

- > Accessory for DEFENDER HD PLUS system
- > Gives access to pedestrians in area where temporary fencing system is used
- > Width 1000 mm - H 2000 mm total
- > Made of shaped 40 mm tubular profile with electro-welded mesh paneling
- > Material: hot-dip galvanized

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER CITY [page 36]

### Product code

DFCHBS20001000



## VEHICULAR GATE

- > Accessory for Defender HD PLUS system
- > Gives access to vehicles in area where temporary fencing system is used
- > Overall width 2200 mm - H 2000 mm total
- > Made of shaped 40 mm tubular profile with electro-welded mesh paneling
- > Material: hot-dip galvanized

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER CITY [page 36]

### Product code

DFCHBS20002200



## SECURITY JOINTS

- > Optional accessory used to join two adjacent panels for enhanced perimeter security
- > Made of high visibility reinforced plastic (RAL 2004)

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER MARATHON® [page 35]
- > DEFENDER CITY® [page 36]

### Product code

DFAC00000001



## WIND BRACE

- > Optional accessory for DEFENDER HD PLUS system enhanced resistance to wind push
- > Length 1550 mm
- > Material: pre-galvanized tube

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER CITY® [page 36]

### Product code

DFST00001700



## CONCRETE BLOCKS

- > Base for DEFENDER HD PLUS system installation provided with four Ø 42 mm holes
- > Dimensions 700x190 mm H 130 mm
- > Approximate weight 30 Kg
- > Material: cement with steel armour

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER MARATHON® [page 35]
- > DEFENDER CITY® [page 36]

### Product code

Holes Ø 38 mm: DFBS00000001C  
Holes Ø 40 mm: DFBS00000002C



# DEFENDER ACCESSORIES

Product  
specification



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## ABS PLASTIC BLOCKS

- > Base for DEFENDER HD PLUS system installation provided with six Ø 42 mm holes
- > Dimensions 660x240 mm H 100 mm
- > Approximate weight 30 Kg
- > Material: high-visibility plastic coated concrete (RAL 2004)

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER MARATHON® [page 35]
- > DEFENDER CITY® [page 36]

### Product code

Holes Ø 38 mm: DFBS00000001P  
Holes Ø 40 mm: DFBS00000002P



## WHEEL KIT

- > Accessory to be added to the pedestrian and vehicular gates of the DEFENDER HD Plus system. It make easy the opening of the pedestrian and vehicular gate facilitating the sliding on the surface.
- > Material Moplan®

### Accessory for

- > DEFENDER HD PLUS [page 34]
- > DEFENDER CITY® [page 36]

### Product code

DFACBS000000005



# GRATING ACCESSORIES

Scheda  
Tecnica



Download



## AGLAIA TOP FASTENING CLIP

- > Accessory used for fixing horizontal grating panels to the steel structure making the safer
- > Used for top fixing
- > Available for mesh sizes 11-15 mm, 22-25 mm, 30-34 mm, each one for either 25-40 mm or 50-80 mm bearing flat bars, respectively
- > Material: hot-dip galvanized according to UNI EN ISO 1461 norm

### Accessory for

- > all gratings

### Product code

Top fixing: GAN#XXXXXSOPZ



## AGLAIA BOTTOM FASTENING CLIP

- > Accessory used for fixing horizontal grating panels to the steel structure making the safer
- > Used for bottom fixing
- > Available for mesh sizes 11-15 mm, 22-25 mm, 30-34 mm, each one for either 25-40 mm or 50-80 mm bearing flat bars, respectively
- > Material: hot-dip galvanized according to UNI EN ISO 1461 norm

### Accessory for

- > all gratings

### Product code

Top fixing: GAN#XXXXXSOTZ



## CONNECTIONS CLIPS

- > Accessory for connecting adjacent horizontal grating panels. Available for mesh size 11-15 mm for bottom fixing only and for mesh sizes 22-25 mm, 30-34 mm for both top and bottom fixing

### Accessory for

- > all gratings

### Product code

Top fixing:  
Bottom fixing:

GANCO#XXXXXSOPZ  
GANCO#XXXXXSOTZ





## MACS SENSORS

- > MEMS sensor chain with single screw fixing system

---

### Accessory for

- > RECINTA N/L [page 28]
- > RECINTA N/L YOUNG [page 29]
- > RECINTA 202 [page 30]
- > RECINTA SAFETY [page 32]
- > STEROPE [page 41]
- > PLEIONE [page 42]
- > BRETOSTEROPE [page 43]
- > ELETTRA [page 44]
- > TALIA VENTUS [page 46]
- > TALIA VENTUS SCREEN [page 47]
- > TALIALIVE [page 48]



# Appendix



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## APPENDIX

<http://www.nuovadefim.com/it/content/download-area>



**LOADING CAPACITY - CLASS 1\_** P. 72  
DENSE CROWD

**LOADING CAPACITY - CLASS 2\_** P. 73  
CARS

**LOADING CAPACITY - CLASS 3\_** P. 74  
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**STAIR TREADS LOADING CAPACITY  
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CAPACITY\_** P. 78

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**TALIA® VENTUS -  
RESISTANCE TO WIND\_** P. 80



# LOADING CAPACITY - CLASS 1



## DENSE CROWD (PEDESTRIAN FLOW) - UNI 11002-1

Dense crowd (pedestrian flow) - UNI 11002-1

Italian Ministerial Decree dated 14 January 2008 - 3.1.4 Category E

Dynamic load 600 daN/m<sup>2</sup>

Made of S235JR steel - Sigma yield = 23.5 daN/mm<sup>2</sup> - Comparison: sigma = 22.38 daN/mm<sup>2</sup>

Max. deflection 5 mm

Max. deflection 1/200 of clear opening

BEARING BAR		BEARING BAR CENTRES DISTANCE mm							
		11	15	22	25	30	34	44	66
mm		mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	clear opening	1129	1045	933	894	842	807	741	633
	rise	5,00	5,00	4,65	4,46	4,21	4,02	3,70	2,96
25 x 2	clear opening	1335	1235	1123	1087	1039	1007	926	792
	rise	5,00	5,00	5,00	5,00	5,00	5,00	4,62	3,71
30 x 2	clear opening	1531	1417	1287	1247	1191	1154	1082	950
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,44
40 x 2	clear opening	1900	1758	1597	1547	1478	1432	1343	1214
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
25 x 3	clear opening	1478	1367	1242	1203	1150	1114	1045	926
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,62
30 x 3	clear opening	1694	1568	1425	1380	1318	1278	1198	1082
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
40 x 3	clear opening	2102	1945	1768	1712	1636	1585	1486	1343
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
50 x 3	clear opening	2485	2300	2090	2024	1934	1874	1757	1588
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
60 x 3	clear opening	2850	2637	2396	2321	2217	2149	2015	1821
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
70 x 3	clear opening	3199	2960	2690	2605	2489	2412	2262	2044
	rise	5,00	5,00	5,00	4,99	5,00	5,00	5,00	5,00
80 x 3	clear opening	3536	3272	2973	2880	2751	2667	2500	2259
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
30 x 4	clear opening	1821	1685	1531	1483	1417	1373	1287	1163
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
40 x 4	clear opening	2259	2090	1900	1840	1758	1704	1597	1443
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
50 x 4	clear opening	2671	2471	2246	2175	2078	2014	1888	1706
	rise	5,00	4,99	5,00	5,00	5,00	5,00	5,00	5,00
60 x 4	clear opening	3062	2834	2575	2494	2383	2309	2165	1956
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
70 x 4	clear opening	3437	3181	2890	2800	2675	2592	2430	2196
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00

The table shows the maximum clear opening for which the LOAD CLASS is guaranteed.

# LOADING CAPACITY - CLASS 2



## CARS - UNI 11002-1

Italian Ministerial Decree dated 14 January 2008 - 3.1.4 Category F

Dynamic load 1000 daN on 200x200 mm imprint, total floor mass up to 3000 kg

Made of S235JR steel - Sigma yield = 23.5 daN/mm<sup>2</sup> - Comparison: sigma = 22.38 daN/mm<sup>2</sup>

Max. deflection 5 mm

Max. deflection 1/200 of clear opening

BEARING BAR		BEARING BAR CENTRES DISTANCE mm							
		11	15	22	25	30	34	44	66
mm		mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	clear opening	272	231	197	187	168	156	143	129
	rise	0,54	0,39	0,28	0,26	0,21	0,18	0,15	0,12
25 x 2	clear opening	369	305	252	238	210	195	179	162
	rise	0,77	0,54	0,37	0,33	0,26	0,22	0,19	0,15
30 x 2	clear opening	488	395	320	298	259	237	216	194
	rise	1,09	0,73	0,49	0,43	0,33	0,27	0,23	0,18
40 x 2	clear opening	790	625	491	453	383	345	306	268
	rise	2,05	1,31	0,83	0,71	0,52	0,42	0,34	0,26
25 x 3	clear opening	504	407	329	307	265	243	221	198
	rise	1,39	0,93	0,62	0,54	0,41	0,35	0,29	0,23
30 x 3	clear opening	682	543	430	398	339	306	274	242
	rise	2,06	1,34	0,86	0,74	0,55	0,45	0,36	0,29
40 x 3	clear opening	1136	887	687	629	524	467	410	353
	rise	4,13	2,56	1,57	1,33	0,94	0,75	0,59	0,44
50 x 3	clear opening	1510	1330	1017	928	763	674	584	495
	rise	5,00	4,48	2,66	2,24	1,53	1,21	0,92	0,67
60 x 3	clear opening	1811	1653	1421	1292	1056	927	798	669
	rise	5,00	5,00	4,24	3,53	2,39	1,86	1,39	0,99
70 x 3	clear opening	2111	1928	1748	1690	1401	1225	1050	874
	rise	5,00	5,00	5,00	5,00	3,54	2,73	2,02	1,42
80 x 3	clear opening	2412	2202	1997	1930	1794	1570	1341	1112
	rise	5,00	5,00	5,00	5,00	5,00	3,86	2,84	1,98
30 x 4	clear opening	877	690	540	497	418	375	332	289
	rise	3,34	2,11	1,32	1,13	0,81	0,66	0,52	0,40
40 x 4	clear opening	1331	1150	883	806	666	590	513	437
	rise	5,00	4,22	2,54	2,13	1,48	1,18	0,90	0,66
50 x 4	clear opening	1661	1517	1323	1204	985	865	746	627
	rise	5,00	5,00	4,43	3,69	2,51	1,95	1,47	1,06
60 x 4	clear opening	1992	1819	1650	1595	1374	1202	1031	859
	rise	5,00	5,00	5,00	5,00	3,97	3,07	2,28	1,61
70 x 4	clear opening	2323	2121	1924	1859	1728	1601	1367	1133
	rise	5,00	5,00	5,00	5,00	5,00	4,59	3,37	2,35

The table shows the maximum clear opening for which the LOAD CLASS is guaranteed.

# LOADING CAPACITY - CLASS 3



## LORRIES - UNI 11002-1

Dynamic load 3000 daN on 400x200 mm imprint, total floor mass up to 6000 kg

Made of S235JR steel - Sigma yield = 23.5 daN/mm<sup>2</sup> - Comparison: sigma = 22.38 daN/mm<sup>2</sup>

Max. deflection 5 mm

Max. deflection 1/200 of clear opening

BEARING BAR		BEARING BAR CENTRES DISTANCE mm							
		11	15	22	25	30	34	44	66
mm		mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	clear opening	205	176	150	142	129	120	110	93
	rise	0,31	0,23	0,17	0,15	0,12	0,11	0,09	0,06
25 x 2	clear opening	264	222	187	177	162	150	138	117
	rise	0,41	0,29	0,21	0,18	0,15	0,13	0,11	0,08
30 x 2	clear opening	321	276	227	213	194	180	165	140
	rise	0,51	0,37	0,25	0,22	0,18	0,16	0,13	0,10
40 x 2	clear opening	430	374	323	302	268	245	222	187
	rise	0,68	0,52	0,39	0,33	0,26	0,22	0,18	0,13
25 x 3	clear opening	328	283	232	218	198	184	169	143
	rise	0,63	0,47	0,32	0,28	0,23	0,20	0,17	0,12
30 x 3	clear opening	394	343	290	270	242	222	202	172
	rise	0,77	0,58	0,41	0,35	0,29	0,24	0,20	0,15
40 x 3	clear opening	545	462	395	375	336	313	283	232
	rise	1,08	0,79	0,58	0,52	0,42	0,36	0,29	0,20
50 x 3	clear opening	739	610	505	476	421	391	359	306
	rise	1,55	1,07	0,75	0,67	0,52	0,45	0,38	0,27
60 x 3	clear opening	977	790	640	597	518	475	432	389
	rise	2,19	1,46	0,98	0,86	0,65	0,55	0,46	0,37
70 x 3	clear opening	1257	1004	799	741	633	575	516	458
	rise	3,03	1,98	1,28	1,11	0,82	0,69	0,56	0,44
80 x 3	clear opening	1581	1250	983	906	766	690	613	537
	rise	4,11	2,62	1,66	1,42	1,04	0,85	0,68	0,53
30 x 4	clear opening	459	396	342	325	289	263	237	199
	rise	1,04	0,77	0,57	0,52	0,40	0,34	0,28	0,20
40 x 4	clear opening	660	550	461	435	388	361	332	276
	rise	1,56	1,10	0,78	0,70	0,56	0,48	0,41	0,28
50 x 4	clear opening	919	747	607	568	495	455	415	374
	rise	2,34	1,58	1,06	0,94	0,72	0,61	0,51	0,39
60 x 4	clear opening	1236	987	787	729	624	567	510	453
	rise	3,42	2,23	1,45	1,26	0,93	0,78	0,63	0,50
70 x 4	clear opening	1610	1272	999	921	778	700	622	544
	rise	4,86	3,10	1,96	1,68	1,22	1,00	0,80	0,62

The table shows the maximum clear opening for which the LOAD CLASS is guaranteed.



# LOADING CAPACITY - CLASS 4



## TRACTOR-TRAILER - UNI 11002-1

Road Traffic Code - Article 62. Limit mass - Point 5. Whatever the type of vehicle, the mass resting on the more loaded axle must not exceed 12 tonnes

Dynamic load 9000 daN on 600x250 mm imprint, total floor mass up to 45,000 kg

Made of S235JR steel - Sigma yield = 23.5 daN/mm<sup>2</sup> - Comparison: sigma = 22.38 daN/mm<sup>2</sup>

Max. deflection 5 mm

Max. deflection 1/200 of clear opening

BEARING BAR		BEARING BAR CENTRES DISTANCE mm							
		11	15	22	25	30	34	44	66
mm		mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	clear opening	159	138	115	109	100	93	82	70
	rise	0,19	0,14	0,10	0,09	0,07	0,06	0,05	0,04
25 x 2	clear opening	199	173	144	136	125	116	103	88
	rise	0,23	0,18	0,12	0,11	0,09	0,08	0,06	0,05
30 x 2	clear opening	239	208	173	164	150	139	124	106
	rise	0,28	0,21	0,15	0,13	0,11	0,09	0,08	0,06
40 x 2	clear opening	329	278	231	218	201	186	165	141
	rise	0,40	0,28	0,20	0,17	0,15	0,13	0,10	0,07
25 x 3	clear opening	244	212	177	167	154	142	126	108
	rise	0,35	0,27	0,19	0,16	0,14	0,12	0,09	0,07
30 x 3	clear opening	297	254	212	201	184	171	152	129
	rise	0,43	0,32	0,22	0,20	0,17	0,14	0,11	0,08
40 x 3	clear opening	404	352	285	268	246	228	202	173
	rise	0,60	0,46	0,30	0,26	0,22	0,19	0,15	0,11
50 x 3	clear opening	505	440	376	349	314	288	253	216
	rise	0,75	0,57	0,41	0,35	0,29	0,24	0,19	0,14
60 x 3	clear opening	606	528	452	433	395	360	310	259
	rise	0,90	0,69	0,50	0,46	0,38	0,31	0,24	0,16
70 x 3	clear opening	717	616	528	505	460	434	376	308
	rise	1,08	0,80	0,59	0,54	0,45	0,40	0,29	0,20
80 x 3	clear opening	845	713	603	577	526	496	437	364
	rise	1,30	0,93	0,67	0,61	0,51	0,45	0,35	0,24
30 x 4	clear opening	350	298	245	232	213	197	175	149
	rise	0,60	0,44	0,29	0,27	0,22	0,19	0,15	0,11
40 x 4	clear opening	467	406	339	316	286	264	234	199
	rise	0,81	0,61	0,42	0,36	0,30	0,26	0,20	0,15
50 x 4	clear opening	583	508	435	416	378	342	296	249
	rise	1,00	0,76	0,56	0,51	0,41	0,34	0,26	0,18
60 x 4	clear opening	709	610	522	500	456	430	371	304
	rise	1,23	0,92	0,67	0,62	0,51	0,46	0,33	0,23
70 x 4	clear opening	856	722	609	583	532	502	441	369
	rise	1,52	1,09	0,78	0,72	0,60	0,53	0,41	0,28

The table shows the maximum clear opening for which the LOAD CLASS is guaranteed.

# STAIR TREAD LOADING CAPACITY WITH POINT LOAD

Made of S235JR steel - Sigma yield = 23.5 daN/mm<sup>2</sup> - Comparison: sigma = 22.38 daN/mm<sup>2</sup>

Max. deflection 5 mm

Max. deflection 1/200 of clear opening

## COLOURS:

Green: secondary private use, 100 daN on Ø 120 mm circular imprint

Red: main private use, 100 daN on Ø 120 mm circular imprint

Black: public use, 200 daN on Ø 120 mm circular imprint

BEARING BAR mm	BEARING BAR CENTRES DISTANCE mm									
	11	15	17	22	25	30	33	34	44	66
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
MAXIMUM CLEAR SPAN BETWEEN THE SUPPORTS										
20x2	1097	1040	984	872	748	737	622	622	611	481
25x2	1200	1200	1200	1200	1145	1129	951	951	935	735
30x2	1200	1200	1200	1200	1200	1200	1200	1200	1200	1038
35x2	1290	1233	1200	1200	1200	1200	1200	1200	1200	1200
40x2	1436	1368	1330	1289	1239	1235	1200	1200	1200	1200
45x2	1583	1506	1462	1414	1357	1352	1294	1294	1288	1200
50x2	1733	1645	1595	1541	1476	1471	1405	1405	1398	1279
25x3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1073
30x3	1272	1216	1200	1200	1200	1200	1200	1200	1200	1200
35x3	1439	1371	1333	1291	1242	1238	1200	1200	1200	1200
40x3	1609	1530	1484	1436	1378	1373	1313	1313	1308	1233
45x3	1780	1690	1638	1582	1515	1510	1441	1441	1435	1349
50x3	1800	1800	1793	1730	1655	1648	1571	1571	1563	1466
60x3	2013	1919	1865	1807	1800	1800	1800	1800	1800	1702
70x3	2281	2168	2103	2033	1950	1942	1857	1857	1849	1800
80x3	2486	2400	2346	2264	2166	2157	2057	2057	2047	1921
90x3	2724	2593	2518	2438	2385	2375	2260	2260	2249	2103
100x3	2966	2818	2733	2641	2532	2522	2410	2410	2400	2288
30x4	1370	1307	1271	1232	1200	1200	1200	1200	1200	1200
40x4	1746	1658	1607	1552	1487	1482	1415	1415	1408	1324
45x4	1800	1800	1778	1715	1641	1634	1558	1558	1550	1454
50x4	1882	1800	1800	1800	1796	1788	1702	1702	1693	1584
60x4	2175	2069	2009	1944	1866	1859	1800	1800	1800	1800
70x4	2417	2347	2275	2196	2103	2095	1999	1999	1990	1869

For bearing bar sizes and bars centres distance availability please contact us.

# EMPTY/FULL RATIO FOR GRATING PANELS

In accordance with section 3.9.1 of Italian Ministerial Decree dated 01.02.1986 (Fire Safety standard), natural ventilation openings in parking garages must have a surface of no less than 1/25 of the total floor surface.

Therefore, when using grating panels for covering ventilation openings, it is necessary to consider the empty/full ratio of the different types of grating, as shown in the following tables.

## GES ELECTRO-WELDED GRATING

BEARING BAR THICKNESS	CROSS BAR THICKNESS	MESH										
		11x76	15x76	17x76	22x38	22x76	25x24	25x76	30x50	30x100	34x38	34x76
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2	4	0,78	0,82	0,84	0,81	0,86	0,77	0,87	0,86	0,90	0,84	0,89
3	4,5	0,68	0,75	0,77	0,76	0,81	0,72	0,83	0,82	0,86	0,80	0,86
4	5	0,59	0,69	0,71	0,71	0,76	0,67	0,78	0,78	0,82	0,77	0,82
5	5	0,51	0,62	0,66	0,67	0,72	0,63	0,75	0,75	0,79	0,74	0,80

## GP PRESS-LOCKED GRATING

BEARING BAR THICKNESS	CROSS BAR THICKNESS	MESH									
		11x66	15x66	22x22	22x66	25x66	33x33	33x66	44x44	66x11	66x33
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2	2	0,79	0,84	0,83	0,88	0,89	0,88	0,91	0,91	0,79	0,91
3	2	0,71	0,78	0,79	0,84	0,85	0,85	0,88	0,89	0,78	0,90
4	3	0,61	0,70	0,71	0,78	0,80	0,80	0,84	0,85	0,68	0,85
5	3	0,52	0,64	0,67	0,74	0,76	0,77	0,81	0,83	0,67	0,84



# FORKLIFT TRUCK LOAD CAPACITY

Please refer to the extract of UNI EN 1991-1-1, August 2004.

## ACTIONS INDUCED BY FORKLIFT TRUCKS.

1. Forklift trucks should be classified into six different classes, from FL1 to FL6, depending on empty weight, size and loads carried. See chart 6.5.

Chart 6.5 - Forklift truck dimensions according to FL classes

FORKLIFT CLASS TRUCK	Empty weight	Carried load	Axe width A	Total width B	Total width L
	kN	kN	m	m	m
FL 1	21,00	10,00	0,85	1,00	2,60
FL 2	31,00	15,00	0,95	1,10	3,00
FL 3	44,00	25,00	1,00	1,20	3,30
FL 4	60,00	40,00	1,20	1,40	4,00
FL 5	90,00	60,00	1,50	1,90	4,60
FL 6	110,00	80,00	1,80	2,30	5,10

2. The axial static vertical load  $Q_x$  of a forklift truck depends on classes FL1 to FL6 and should be obtained from Chart 6.6

Chart 6.6 - Forklift truck dimensions according to FL classes

FORKLIFT TRUCK CLASS	Axial load $Q_x$	Dynamic load on rigid wheels imprint	***Imprint
	kN	xN	mm
FL 1	26	26	150x130
FL 2	40	40	175x150
FL 3	63	63	200x200
FL 4	90	90	300x200
FL 5	140	140	375x200
FL 6	170	170	450x200

\*\*\* UNI resolution dated 21/10/2008 - "it is believed that the requirements of Eurocode 1 (UNI EN 1991-1-1) concerning the imprints of forklift trucks are not applicable to grating panels, since the vertical load distributes differently on an even base (e.g. concrete floor) and on an uneven base (grating panel) consisting of supporting bars, the number of which varies depending on the size of the imprint"

3. The axial static vertical load  $Q_x$  should be increased by the  $\varphi$  dynamic coefficient, using the equation (6.3)

$$Q_{x,dyn} = \varphi Q_x$$

where:

$Q_{x,dyn}$  is the characteristic dynamic value;

$\varphi$  is the dynamic amplification coefficient;

$Q_x$  is the characteristic static value.

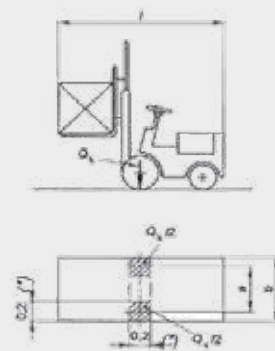
4. The dynamic coefficient  $\varphi$  for forklift trucks takes into account the inertial effects caused by acceleration and deceleration of the load carried, and should be set equal to:

$\varphi = 1,40$  for forklift trucks on tires

$\varphi = 2,00$  on rigid wheels

5. For forklift trucks with empty weight greater than 110 kN, the loads should be defined through a more accurate analysis.

6. The vertical axial load  $Q_x$  and  $Q_{x,dyn}$  of a forklift truck should be positioned according to figure 6.1



PICTURE 6.1  
Forklift truck dimensions

7. Horizontal loads due to acceleration or deceleration of forklift trucks can be equal to 30% of the axial vertical loads  $Q_x$ .

**Note:** dynamic coefficients shall not be applied.

(\*) see UNI resolution dated 21/10/2008

## Load tables can be accessed in the Download Area of our website.

The values have been calculated on the basis of the expected loads taken from:

- > The capacity table under subsection 6.1 herein, with imprint pursuant to said UNI resolution.
- > The calculations take into account the more unfavourable direction of transit.
- > Elastic deflection  $5 \text{ mm} \leq 1/200$  of the clear opening.
- > Unitary yield stress  $23.5 \text{ daN/mm}^2$
- > SR35JR steel.

# GLOSSARY

The UNI 11002-1 norm state as follows:

## ELECTROFUSED AND/OR PRESS LOCKED GRATING

Steel net structure made by flat and crossbars orthogonally connected (pic. 1A and 2A, 1B and 2B). The bearing bars joints between the two bars are called "knots".

## ELECTROFUSED GRATING

Bearing and crossbars are joined together by a welding process - without additional external material - combined with concentrated pressure on all knots. Through this operation the bearing bar embed the crossbar.

## PRESS LOCKED GRATING

The elements are joined together by pressing the cross bars into small grooves arranged in advance onto the bearing bars. In some cases, crossbars are provided also with grooves.

## BEARING BARS (H X S)

They are flat steel elements parallel among them, supporting the load acting on the grating. The bearing bars are determined by the size (h) and the thickness (s). (pic. 1A and 1B this paragraph).

## CROSSBARS

Steel elements parallel among them and perpendicular to the bearing bars. They connect and maintain regular the bearing bars distance. Crossbars also spread out the carried load transversally. (pic. 1A and 1B this paragraph).

## BEARING BARS CENTRES DISTANCE (A)

Distance between two adjacent bearing bars centres. (pic. 1A and 1B this paragraph).

## CROSSBARS CENTRES DISTANCE (B)

Distance between two adjacent crossbars centres. (pic. 1A and 1B this paragraph).

## MESH

Shown as (A x B). (pic. 1A and 1B this paragraph). The (A) pitch is always the first shown figure. For example: centres distance (A) = 25 mm – centres distance (B) 76 mm = mesh 25x76 mm.

## PANEL LENGHT (X)

Bearing bar overall size. (pic. 2A and 2B this paragraph).

## PANEL WIDTH (Y)

Crossbar overall size. (pic. 2A and 2B this paragraph).

## PANEL DIMENSIONS

Shown as (X x Y). (pic. 2A and 2B this paragraph). The (X) size is always the first shown figure.

## IMPRINT

Grating area directly affected by the load. It is defined by its dimensions (u x v).

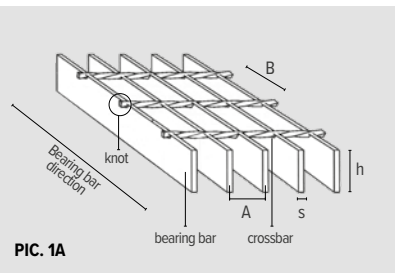
## UNIFORMLY DISTRIBUTED LOAD

Load uniformly spread out on the whole panel surface.

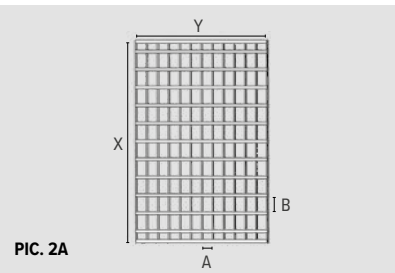
## LOAD CONCENTRATED ON IMPRINT

Load affecting the imprint area only.

## ELECTROFUSED GRATING (GES)

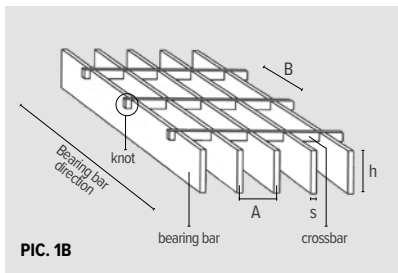


PIC. 1A

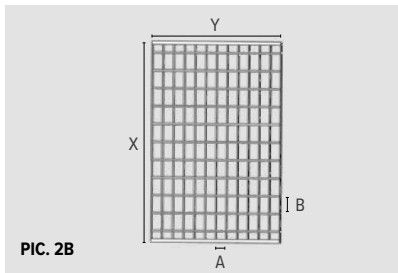


PIC. 2A

## PRESS-LOCKED GRATING (GP)



PIC. 1B



PIC. 2B

## DEFLECTION (f)

Panel vertical deviation from the horizontal quote caused by the carried load. (Maximum deflection:  $1/200$  of  $L_n$ ; Maximum deflection: 5 mm). For further information, also check the UNI 11002-1 norm.

## NET SPAN BETWEEN SUPPORTS ( $L_n$ )

This is the clear span between two adjacent supports, sized in the bearing bars direction (length)

Further terms follow:

## SERRATED GRATING

This is a grating type with bearing bars and/or crossbars provided with top indentations in order to offer an anti-slip walking surface.

Grating for residential scope

## HEEL PROOF GRATING

It is an accepted practice to call "heel-proof" a grating with either the crossbar or the bearing bar centres distance equal or smaller than 15mm, even if it does not exist an official norm for it.

## BALL PROOF GRATING

This type is preventing a ball of 20mm diameter or other objects same size from falling through the mesh. (See DM 14/6/89 n. 236 art. 8.2.2).

Grating for industrial use

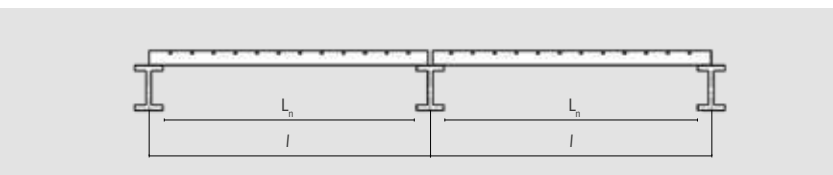
## GRATING FOR WORKING PLATFORMS AND WALKWAYS

This grating need to satisfy the UNI EN 14122-2 norm.

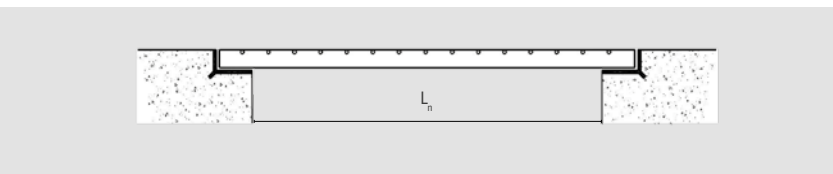
## OFFSHORE GRATING

With one or two round bars between the serrated bearing bars this grate prevent a ball of 15mm diameter or other objects same size from falling through it.

## PANELS ON TWO ADJACENT SUPPORTS



## PANELS ON FRAME



# TALIA® VENTUS – RESISTANCE TO WIND

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TALIA® VENTUS is the only lamellar fence certified for resistance to wind.

The technical office requires the following data to make an accurate estimate based on specific needs.

## 1. GEOGRAPHICAL AREA

- ☐ Valle d'Aosta, Piedmont, Lombardy, Trentino, Veneto, Friuli (excluding the province of Trieste)
- ☐ Emilia Romagna
- ☐ Toscana, Marche, Umbria, Lazio, Abruzzi, Molise, Apulia, Campania, Basilicata, Calabria (excluding the province of Reggio Calabria)
- ☐ Sicily and the province of Reggio Calabria
- ☐ Sardinia (to the east of the line between Capo Teulada and the Maddalena island)
- ☐ Sardinia (to the west of the line between Capo Teulada and the Maddalena island)
- ☐ Liguria
- ☐ Province of Trieste
- ☐ Islands (with the exception of Sicily and Sardinia) and offshore

## 2. HEIGHT ABOVE SEA LEVEL

.....

in metres, max. 1500 m

## 3. FENCING HEIGHT REQUIRED

.....

TALIA® is available in heights of 1 m to 2 m approximately

## 4. BASIC FENCING HEIGHT\*

.....

\*The height from the soil in metres on which the fence will be installed

## 5. GEOGRAPHICAL POSITION

.....

\* If in doubt, it is advisable to indicate the severest condition by clicking "no obstacles"

- ☐ urban area, with buildings of a minimum height of 15 m
- ☐ suburban area
- ☐ industrial area
- ☐ wooded area
- ☐ widespread obstacles (e.g. trees, buildings, walls)
- ☐ no obstacles

## 6. DISTANCE FROM THE SEA

.....

in kilometres



download the form



## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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## ≡

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**NUOVA DEFIM S.p.A.**  
**www.nuovadefim.com - info@nuovadefim.com**

**REGISTERED OFFICE**  
Via Carlo Nicola Pasini, 11  
25017 Lonato del Garda (Bs)

**ADMINISTRATIVE OFFICES  
AND PRODUCTION PLANT**  
Via Cavolto, 10  
22040 Anzano del Parco (Co)  
Tel. +39 031 33521  
Fax +39 031 3352138

**PRODUCTION PLANT**  
Via dell'Industria, 199 - int. 1  
22040 Alzate Brianza (Co)  
Tel. +39 031 33521  
Fax +39 031 3352138