

General Catalogue

Welded Mesh, Grating and Fencing



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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 ORSOGRIL branded, combining tradition to advanced techniques, ensuring a service that meets steel and construction industry expectations. Part of FERALPI GROUP, NUOVA DEFIM ORSOGRIL 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 ORSOGRIL. 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

24

steel tons/year

.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**

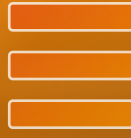
Versatility for countless applications

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 galvanized 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 respond 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 ORSOGRIL 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 were 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



**WELED
MESH**

link: www.nuovadefim.com/en/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.

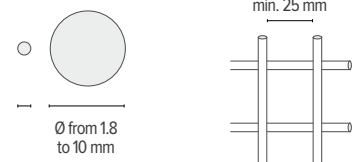
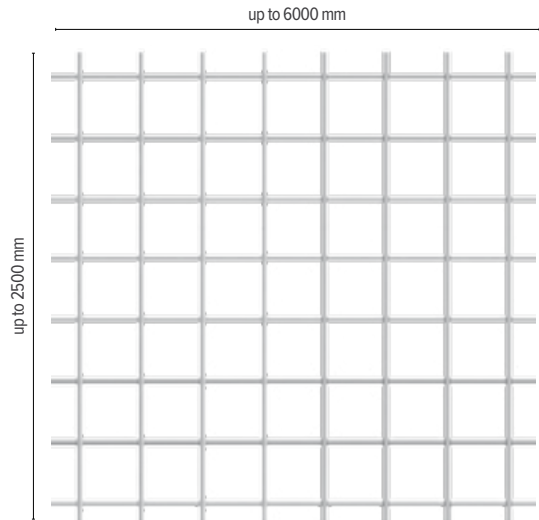
NUOVA DEFIM turns each supply into a solution specifically targeted to meet specific customer requirements thanks to its extensive experience and to its fine tuned organisation supported by a design office of excellence.

APPLICATIONS

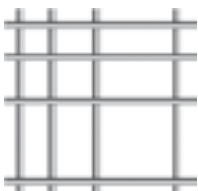
- > Rigid mesh for metal beds
- > Fan grilles
- > Benches
- > Containers
- > Animal enclosures
- > Cable trays
- > Plasterwork sub-frame
- > Overpass fencing
- > Foundations and anti-cracking mesh
- > Special structural work
- > Mesh for the food industry
- > Machine guards systems
- > Fencing

FINISH

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

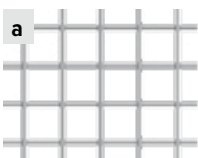


Wires with different diameters.
Minimum c/c mesh square opening is 25 mm.



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



DEFIM MESH®

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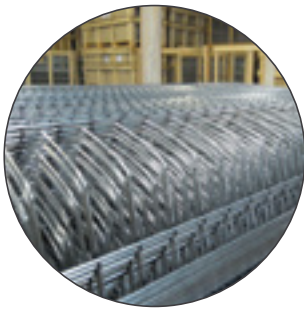


ADDITIONAL SERVICES

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.



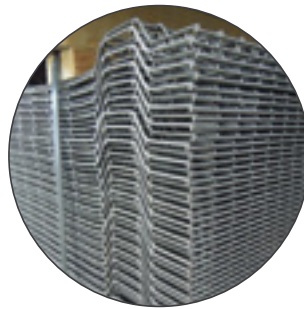
Example of bent mesh



Mesh bending



Mesh bending automation



Mesh to drawing



DEFIM STD®

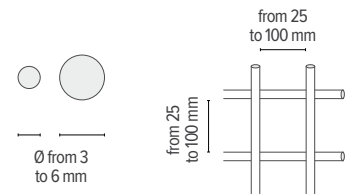
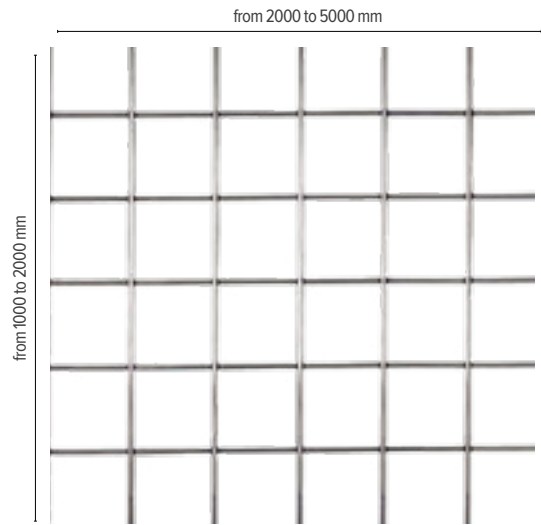
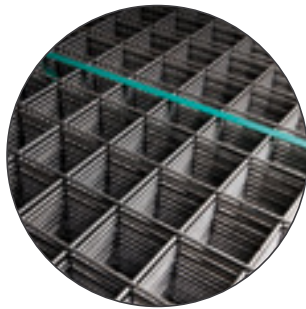
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Standard production includes welded mesh panels made by self-colour, hot-dip galvanized and stainless steel wires with diameters ranging from 3 to 6 mm, mesh aperture from 25x25 mm to 100x100 mm and panel sizes from 1000x2000 mm to 1600x5000 mm (selected 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

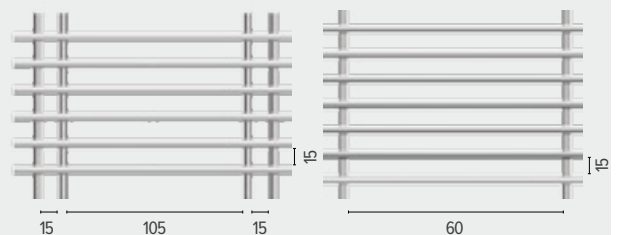


Different types of finish are available depending on panel size: polished (self -colour), pre-galvanized, stainless steel AISI 304.

MESH			WIRE			DIMENSIONS			FINISH		
H	L	Ø	H	L	Weight	Polished (self-colour)	Pre-galvanized	Stainless Steel AISI 304			
mm	mm	mm	mm	mm	kg/m ²						
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	Polished (self-colour)	Pre-galvanized	Stainless Steel AISI 304			
mm	mm	mm	mm	mm	kg/m ²						
TEC	3	3	1000	2000	4.27						
TEC	3	3	1240	2400	4.27	■	■	■			
RT 60	11	3	1200	2400	5.46	■	■				

ARMEDIL®

Download



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.

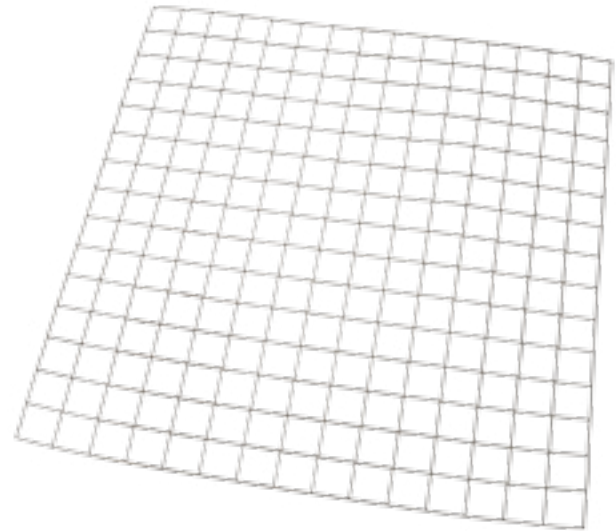
ARMEDIL® LIGHT - nominal wire diameter is 1.5 mm: same quality as ARMEDIL®, but made by a different wire diameter and studied to be more competitive for large surfaces projects.

APPLICATIONS

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

FORMATS

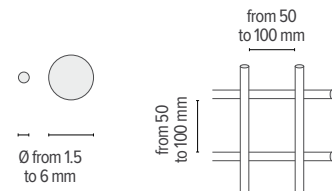
In the range are available with 100x100 mm aperture, 3, 4, and 6 mm wire diameters, 2000x2000 mm panel dimension (3 and 4 mm wire diameters) and 1600x2000 (6 mm wire diameters), all hot-dip galvanized in accordance with UNI EN 10244-2.



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 / panels with overhangs





DEFIM ROLL®

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

APPLICATIONS

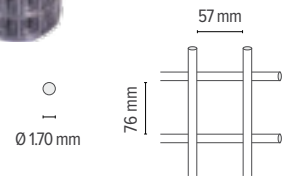
- > Gardens/country fields
- > Animal enclosures
- > DIY applications
- > Construction

FINISH

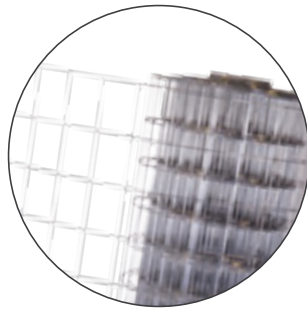
- > Class "D" galvanizing, according to UNI EN 10244-2 norm

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 per 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



DEFIM PLAST



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

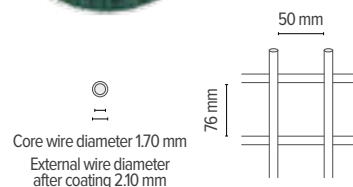
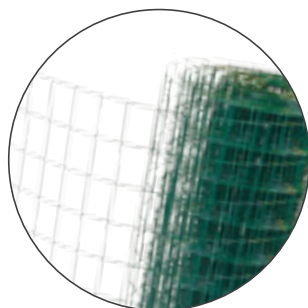
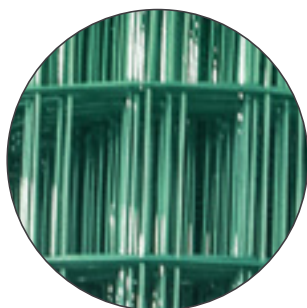
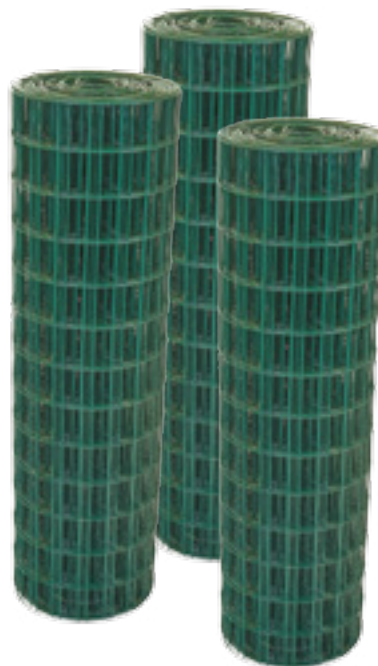
Supplied on pallets in lots of 12 rolls.

APPLICATIONS

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

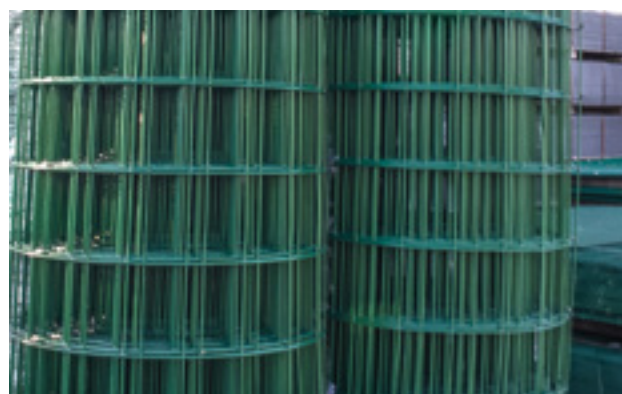
PRODUCT SPECIFICATIONS

Welded pre-galvanized and plastic-coated mesh made of \varnothing 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	\varnothing	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"x3" aperture and wire diameters 3, 4, and 5 mm; finish Zinc aluminium class A (UNI EN 10244-2).

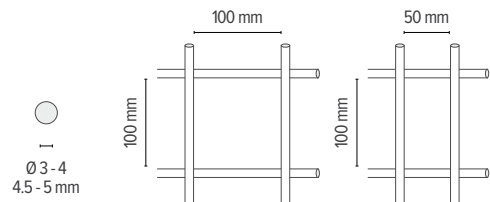
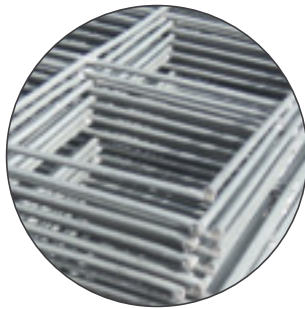
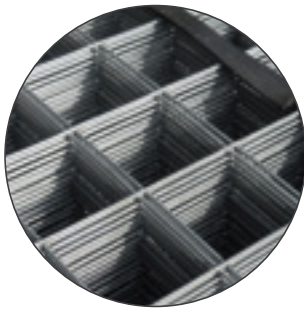
Available on request also panels with 100x100 mm and 100x50 mm mesh sizes, wire 3, 4, 4.5 and 5 mm wire diameters.

APPLICATIONS

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

FINISH

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



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.

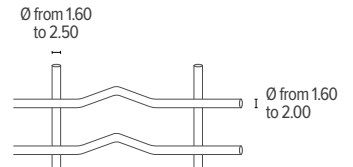
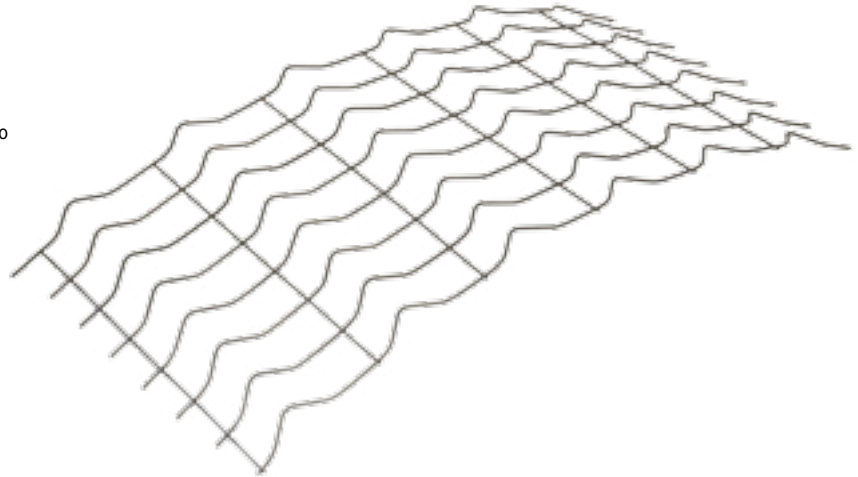
Many years of activity have enabled Nuova DEFIM ORSOGRIL to specialise in the production of welded wire mesh for various high-tech applications, including the oil and gas industry.

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.

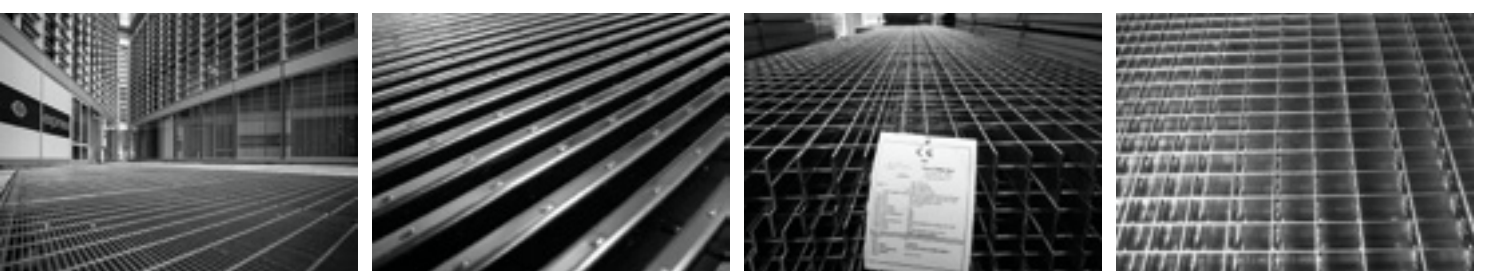
Manufactured according to ASTM A 82-02, ASTM A 185-02, ASTM A641/A 641/M.





≡ Grating

Design and functionality



Download  | 

GRATING [link: www.nuovadefim.com/en/content/download-area](http://www.nuovadefim.com/en/content/download-area)



CE CE Certified
NO. 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 STEPS_ P. 24
STANDARD GRATING STEPS®
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 6100x1000 mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).



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 67

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: ...

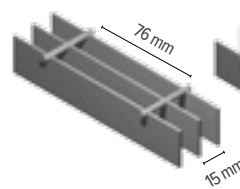
Material: S235JR UNI EN 10025 Steel

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

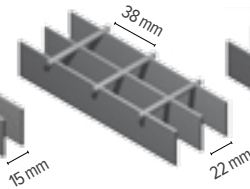
AGLAIA fixing clip for ... mm mesh - bottom or top fixing

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

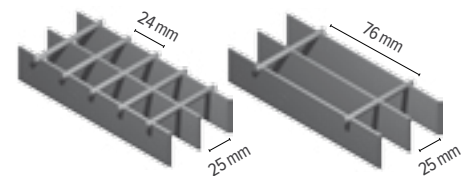
HEEL PROOF



BALL PROOF



BUILDING



BEARING BAR			CROSS BAR DIRECTION	N. bearing bars	HEEL PROOF		BALL PROOF		BUILDING	
H	S	L			Mesh	Weight	Weight	Weight	Weight	Weight
mm	mm	mm			kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	
25	2	998		67	25.2	-	18.0	18.4	15.8	
30	2	998		47	30.1	-	21.5	-	18.9	
40	2	998		47	40.1	-	-	-	25.0	
25	3	999		47	38.1	-	-	-	23.6	
30	3	999		47	45.7	-	32.2*	-	28.2	
40	3	999		47	61.0	-	-	-	37.6	
50	3	999		47	76.2	-	-	-	46.9	
60	3	999		47	92.4	-	-	-	57.1	
70	3	999		47	107.8	-	-	-	66.5	
80	3	999		47	123.2	-	-	-	-	
40	4	1000		41	-	-	57.6	-	50.4	
50	4	1000		41	-	-	72.0	-	63.0	
60	4	1000		41	-	-	87.2	-	76.3	
70	4	1000		41	-	-	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)

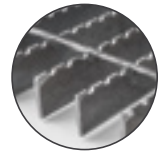
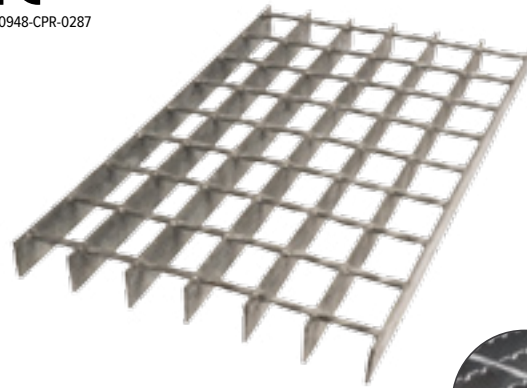




POTISSIMUM® INDUSTRY

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 6100x1000 mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).



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

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. 67

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)

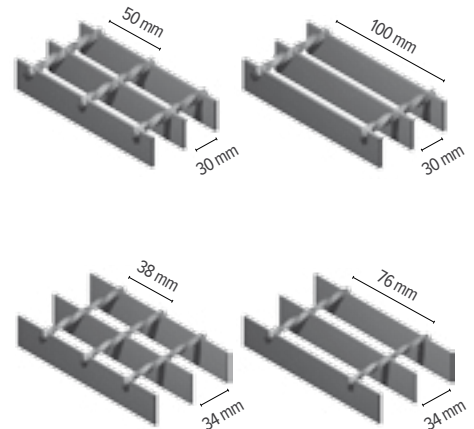
Weight kg/m²: ...

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)



BEARING BAR		CROSS BAR DIRECTION	N. bearing bars	34°	34°	30°	30°
H	S	L		Mesh	35x50	30x100	34x38
mm	mm	mm	Weight	kg/m ²	kg/m ²	kg/m ²	kg/m ²
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

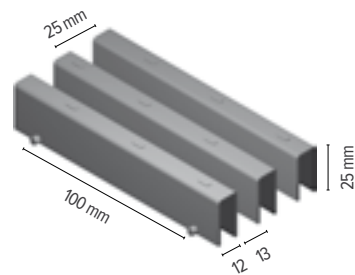
Weights kg/m² are theoretical and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)



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 ORSOGRIL 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 6100x1000 mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).

CE
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/m²

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 25x12x25x1.5 mm anti-slip grooved. Round cross wire Ø 4 mm. Edges framing flat bar 25x2 mm. Weight kg/m²: 34.9 (galvanized or painted). Material: S235JR UNI EN 10025 steel. Finish: hot-dip galvanizing according to UNI EN ISO 1461

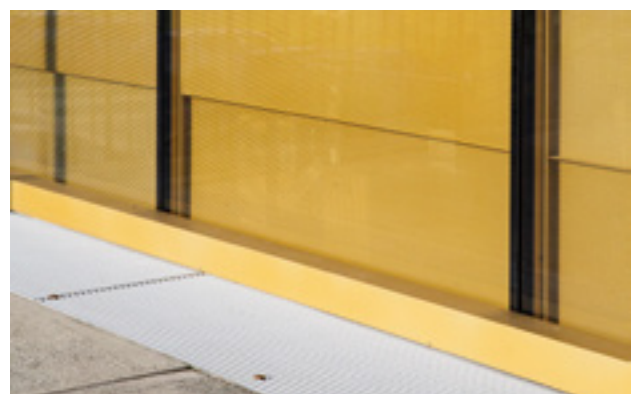
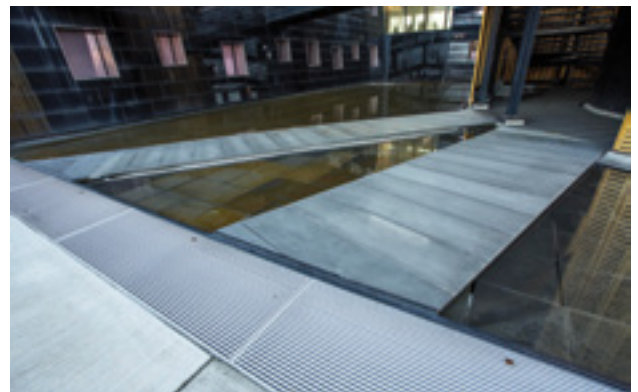
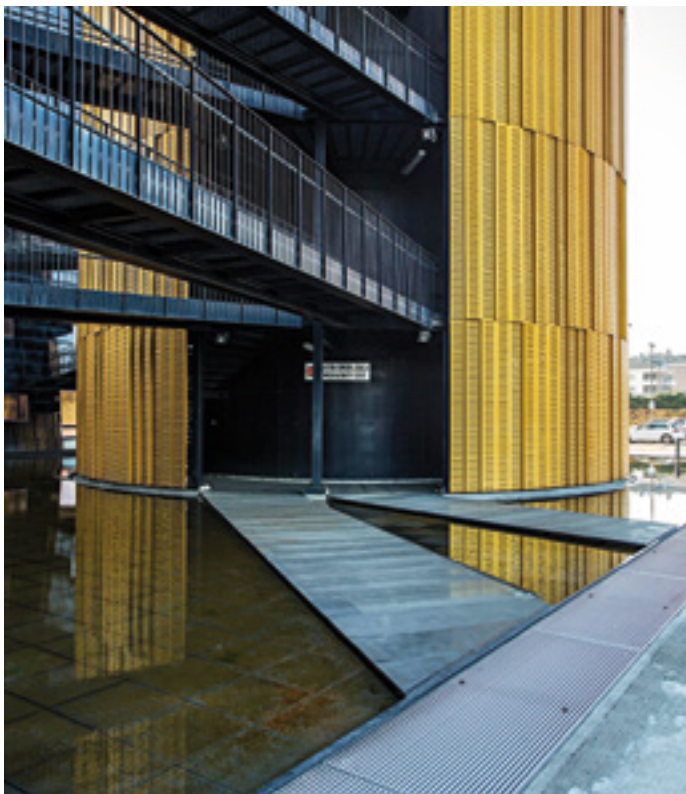
AS AN ALTERNATIVE:

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

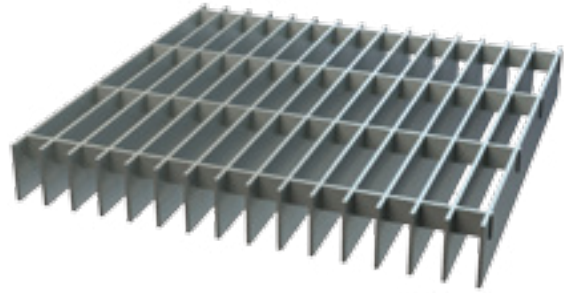
BALL-PROOF to Italian Ministerial Decree no. 236 of June 14, 1989





Download

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

Material

- > 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 67

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/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



BEARING BAR		CROSS BAR DIRECTION		Mesh AxB													
H	S	H	S		11x66	15x66	17x66	22x22	22x66	25x66	33x33	33x66	44x11	66x11	66x22	66x33	
mm	mm	mm	mm	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	
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.

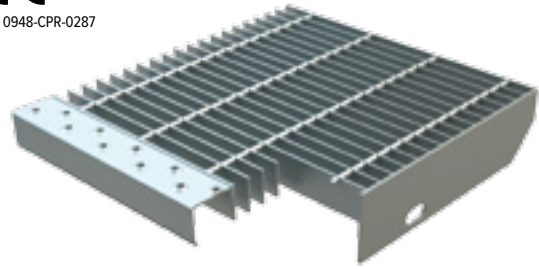
Weights kg/m² are theoretical and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)



STANDARD GRATING STEPS®

For outdoor and emergency stairs are mainly used STANDARD GRATING STEPS due to their compliance with loading requirements and to the empty-to-full ratio ensuring fire smokes rapid evacuation.

All NUOVA DEFIM ORSOGRIL grating steps are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).



TECHNICAL DETAILS

Material

> S235JR UNI EN 10025 Steel

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

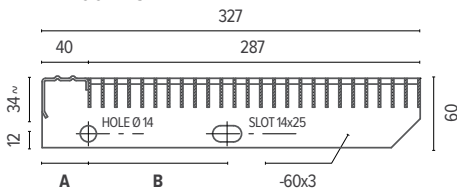
APPLICATIONS

- > Emergency security stairs
- > Service stairs

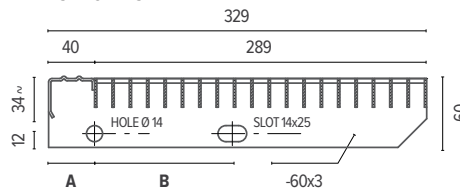
PRODUCT SPECIFICATIONS

Welded ORSOGRIL GRATING STEPS 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

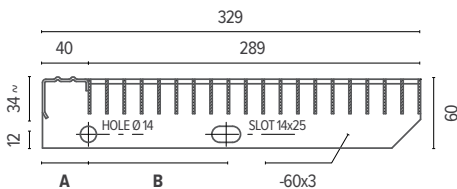
11x100 - 25x2



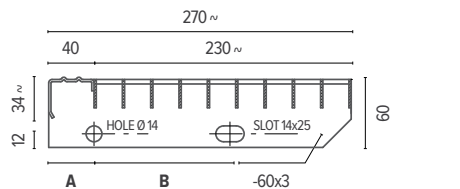
15x76 - 25x2



15x76 - 30x2



25x76 - 25x2



DESCRIPTION	MESH		BEARING BAR		DIMENSIONS			DRILLING UNI NORMS	
	H mm	L mm	H mm	S mm	H mm	L mm	Weight kg/ea	A mm	B 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

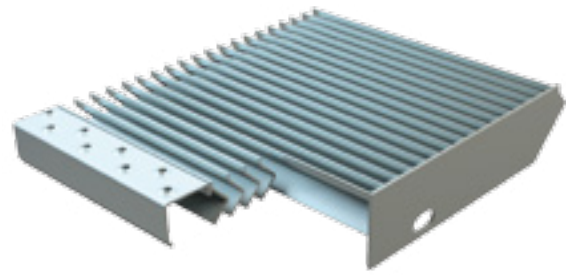
**According to the UNI 11001-1 norm, test reported from Milan Polytechnic (P.54/2-8.112)

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, galvanized

Capacity load (kg)

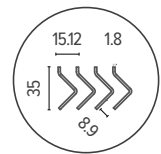
> Stair tread load on maximum net span of 1200 mm

APPLICATIONS

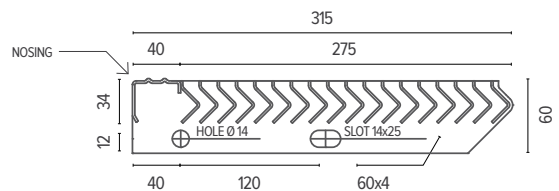
- > Light gratings
- > Floors
- > Walkways
- > Stair treads
- > Drainage covers
- > Mezzanines

PRODUCT SPECIFICATIONS

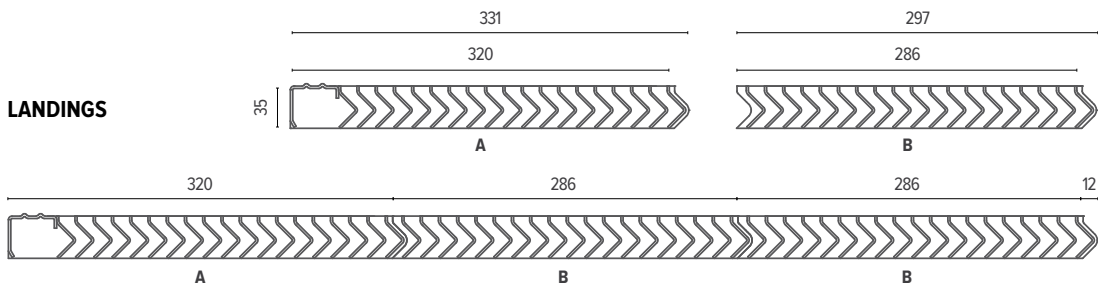
ANTIVERTIGO ORSOGRIL Stair tread for bolting Mesh mm: 15. Bearing bar mm: special V profile. Round cross bar mm: Ø 6. Dimensions mm: 1200x315
Grating panel provided with a special front profile called "nosing" and two perforated side plates for bolting it to the steel stair supports. Weight kg/each: 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 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

link: www.nuovadefim.com/en/content/download-area



WIRE PANELS_ P. 28

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

MOBILE PANELS_ P. 33

DEFENDER HD
DEFENDER MARATHON
DEFENDER CITY

VERTICAL RAILING PANELS_ P. 36

ACUMINA®
CELENO®
ANTICLEA®
RECINTHA® GIGLIO

GRATING PANELS_ P. 40

STEROPE®
STEROPE®3
PLEIONE®
BRITOSTEROPE®
MEROPE®
STADION

LOUVERED PANELS_ P. 46

TALIA® VENTUS
TALIA® SCREEN VENTUS
TALIALIVE

GATES_ P. 50

GATES

WALL CLADDING_ P. 52

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



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

Material

- > S235JR 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 61
- > Universal MP clip for square post (International Patent)
- > Crab-type clip for round post

Gates

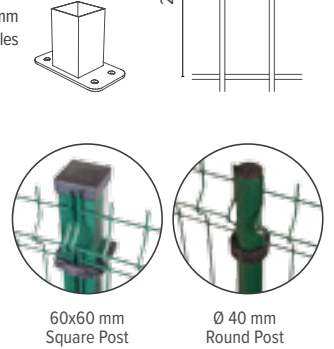
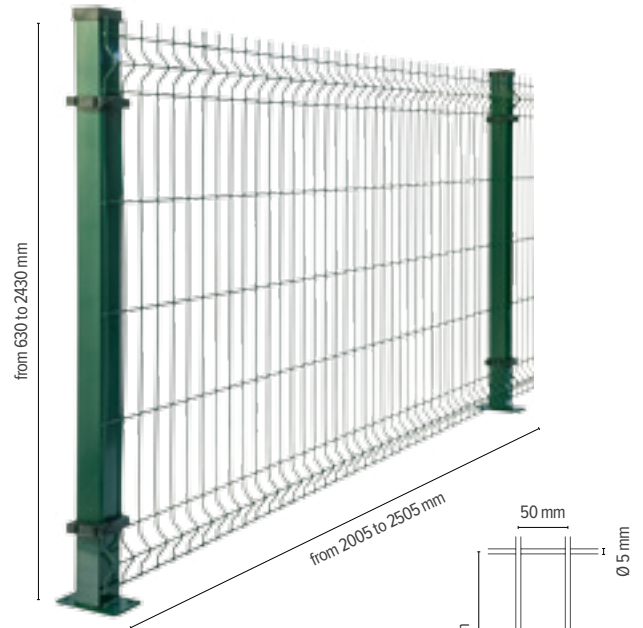
- > Single, double or sliding leaf gates

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 200x50 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.



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 ²	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
				60x60		1300	3.8	1100	3.6
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
				60x60		2000	5.9	1800	5.7
2030	2005	17.7	4.3	60x60	4	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	-	-
				Ø 40		2700	8.0	-	-



- POSTS P. 58
- ASSEMBLY SYSTEMS P. 61
- CAPS P. 64
- RECINTHA® ACCESSORIES P. 65

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

Material

- > S235JR UNI EN 10025 galvanized Steel

Coating

- > Polyester powder coating

Colours

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

Fixing system

- > Universal MP joint > see page 61
- > Cover plate with security bolts (only with Omega post) > see page 58

Gates

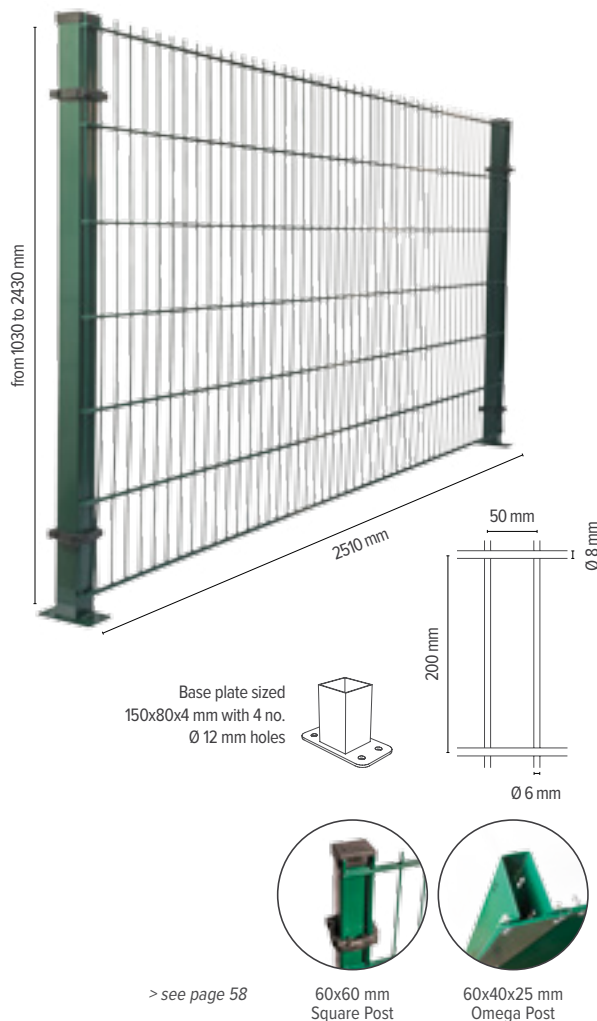
- > Single, double or sliding leaf gates

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.



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/m ²	mm	mm	n°	mm	kg/ea	mm	kg/ea
1030	2510	22.5	8.7	60x40x25	-	6	1500	10.5	-	-
				-	60x60	3	1280	3.8	1080	3.6
1230	2510	26.9	8.7	60x40x25	-	6	1700	12.1	-	-
				-	60x60	3	1480	4.4	1280	4.2
1430	2510	31.2	8.7	60x40x25	-	6	2000	14.2	-	-
				-	60x60	3	1680	5.0	1480	4.8
1630	2510	35.6	8.7	60x40x25	-	8	2200	15.8	-	-
				-	60x60	4	1880	5.6	1680	5.4
1830	2510	40.0	8.7	60x40x25	-	8	2400	17.4	-	-
				-	60x60	4	2080	6.2	1880	6.0
2030	2510	44.3	8.7	60x40x25	-	8	2600	19.0	-	-
				-	60x60	4	2280	6.8	2080	6.6
2230	2510	48.7	8.7	120x60x30	-	10	2800	33.6	-	-
				-	-	-	-	-	-	-
2430	2510	53.1	8.7	120x60x30	-	10	3000	36.2	-	-
				-	60x60	4	2780	8.3	2480	7.8



-  **POSTS**
P. 58
-  **ASSEMBLY SYSTEMS**
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-  **CAPS**
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-  **RECINTHA® ACCESSORIES**
P. 65



RECINTHA® P.G.

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

Material

- > 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 61

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

Gates

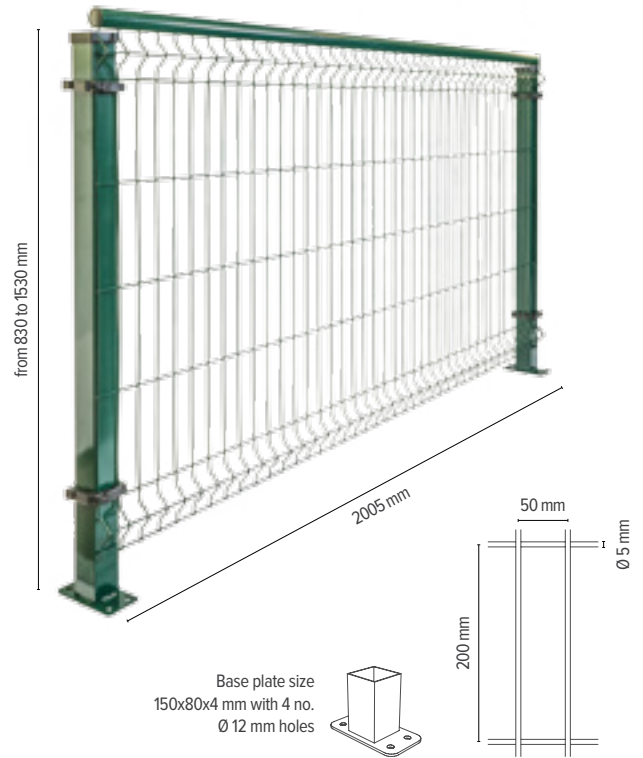
- > Single, double or sliding leaf gates

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 38 mm 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 4 no. Ø 12 mm holes



> see pages 58-65

Post with universal MP joint

Handrail joint detail

Handrail corner detail

- POSTS P. 58
- ASSEMBLY SYSTEMS P. 61
- CAPS P. 64
- RECINTHA® ACCESSORIES P. 65

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Tube section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m ²	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





RECINTHA® SAFETY

This is a high security fencing 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 SAFETY ACS; 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

Material

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

Coating

- > Painting with polyester resins

Colours

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

Fixing system > see page 58

- > Cover plate with anti-theft bolts

Gates

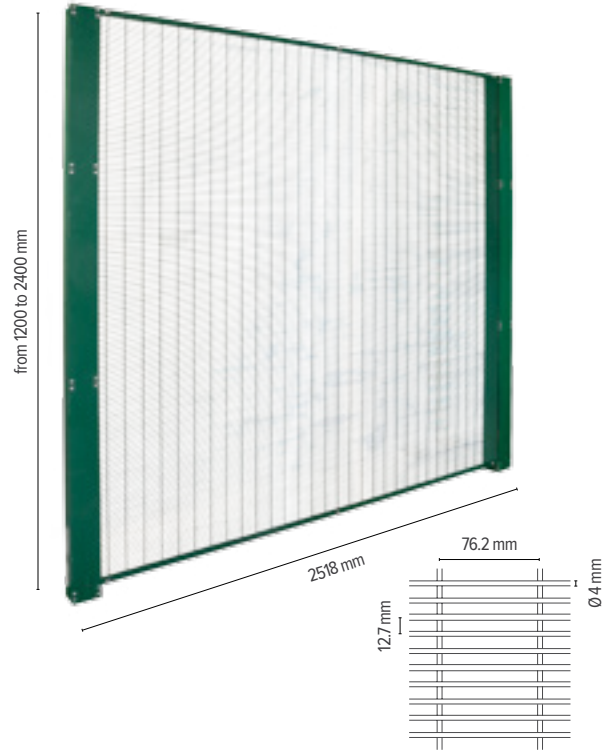
- > Single, double or sliding leaf gates

APPLICATIONS

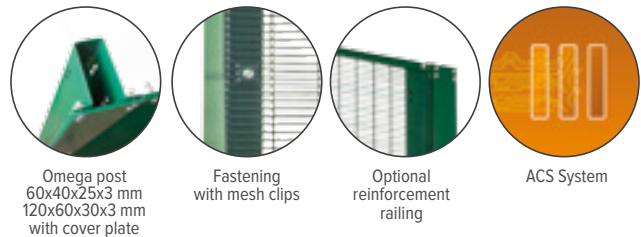
- > Residential areas
- > Industrial areas
- > Commercial areas
- > Railways
- > Telecommunication sites
- > Military sites
- > High security fencing
- > Airport and customs area
- > Border lines

PRODUCT SPECIFICATIONS

Electro-welded mesh panel made of Ø 4 mm hot dip galvanized or zinc aluminium 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 distance: 2550 mm using Omega section 60x40x25x3 mm and 2580 mm with Omega section 120x60x30x3 mm. Thermosetting resins polyester powder coating.



> see pages 58-61-65-78



PANEL				POST		Post to be set in concrete	
H	L	Weight		Omega section	Fixing points	L	Weight galv.
mm	mm	kg/ea	kg/m ²				
1200	2518	25.7	8.5	60x40x25	6	1700	12.0
1400	2518	30.0	8.5	60x40x25	6	1900	13.6
1600	2518	34.2	8.5	60x40x25	8	2100	15.2
1800	2518	38.5	8.5	60x40x25	8	2400	17.3
2000	2518	42.8	8.5	60x40x25	8	2600	18.9
2200	2518	47.1	8.5	120x60x30	10	2800	35.3
2400	2518	51.4	8.5	120x60x30	12	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 ²				
1400	2518	30.0	8.5	120x60x2	6	1900	10.7
1600	2518	34.2	8.5	120x60x2	8	2100	11.8
1800	2518	38.5	8.5	120x60x2	8	2400	13.5
2000	2518	42.8	8.5	120x60x2	8	2600	14.6
2200	2518	47.1	8.5	120x60x2	10	2800	15.8
2400	2518	51.4	8.5	120x60x2	12	3000	16.9



- POSTS P. 58
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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

Material

- > Steel S235JR UNI EN 10025

Coating

- > Painting with polyester resins

Colours

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

Gates

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

APPLICATIONS

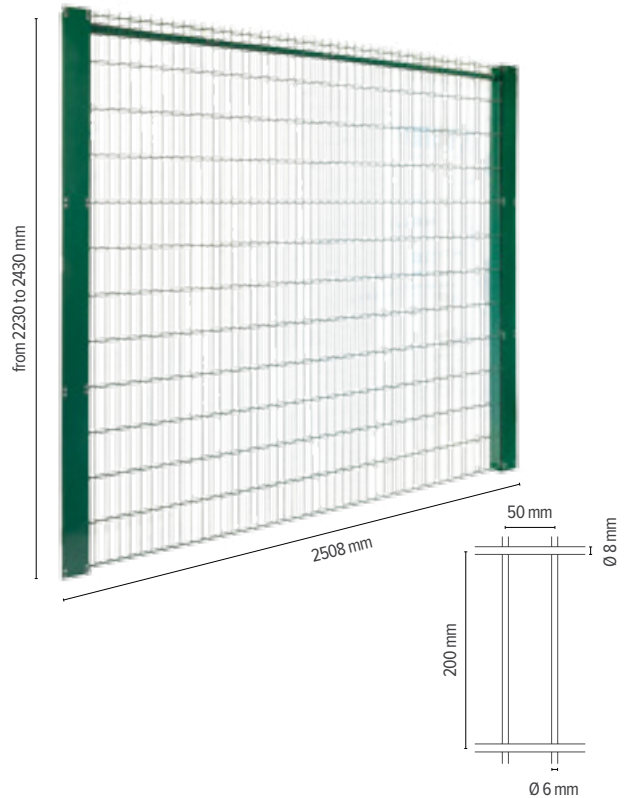
- > Football field fence
- > Sport arenas
- > Athletics grounds
- > Sports facilities
- > Hippodrome
- > Car racetrack

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 according to UNI EN ISO 1461 and polyester powder coated.

Post centers distance: 2570 mm.



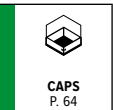
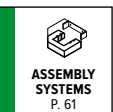
> see pages 59-62-65

Omega post 120x60x30x3 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 ²	mm	n°	mm	kg/ea	mm	kg/ea
2230	2508	42.9	8.7	120x60x30	11	3000	35.4	-	-
2430	2508	46.7	8.7	120x60x30	13	3000	36.2	-	-
2230+630	2508	42.9	8.7	120x60x30	11	2780+650	41.1	-	-





DEFENDER HD

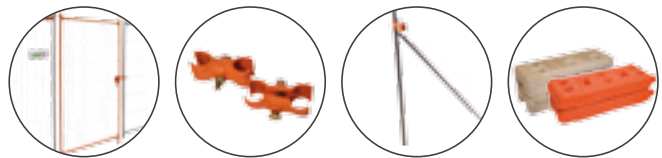
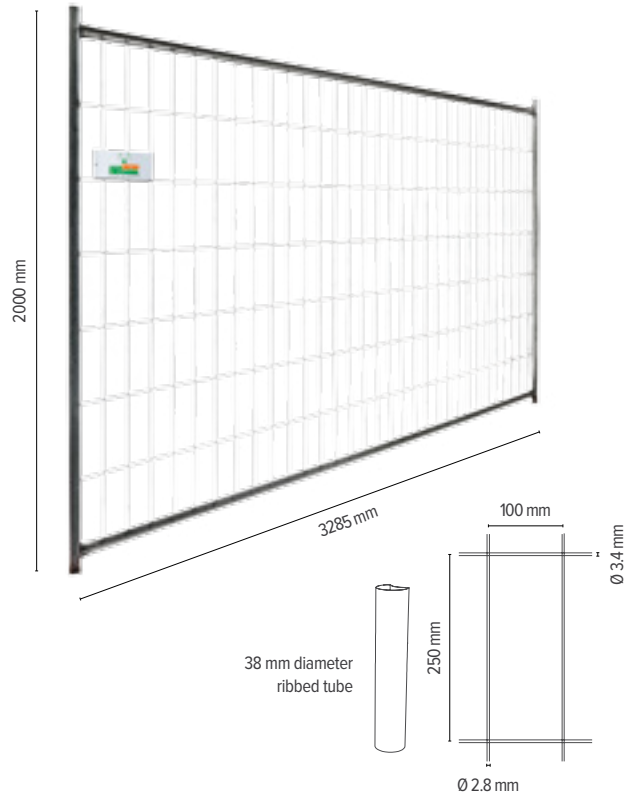
DEFENDER is the ideal solution to protect construction sites, special events areas and more generally any locations where temporary demarcation is necessary. The patented joint used between the horizontal and vertical tubes, ensures new standards in terms of strength and durability, thanks also to the special ribbed profile. 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 events
- > Trade fairs

PRODUCT SPECIFICATIONS

DEFENDER HD is a working site temporary fence made by a ribbed pregalvanized tubular frame 38mm diameter welded with s/s AISI 307 Si wire to prevent oxidation and a mesh panel infill. The welded mesh has 3.4 mm diameter horizontal wires at 254 mm centres and 2.8 mm diameter vertical wires at 101.6 mm centres galvanized according to the UNI EN 10244-2 norm. The 600x235x130mm cement base, are provided with eight holes to suit the vertical panel profiles.



> see page 66

PANEL			MESH		TUBE	BASE
H	L	Weight	H	L	Ø	Weight
mm	mm	kg/ea	mm	mm	mm	kg/ea
2000	3285	14	250	100	38 Ribbed	38





DEFENDER MARATHON

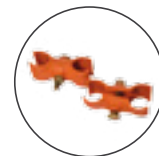
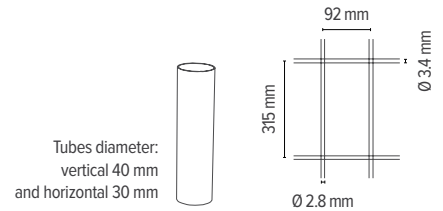
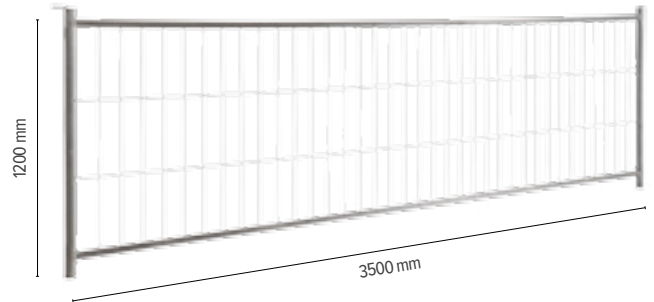
This fence is similar to DEFENDER HD style, suiting particularly working areas and construction worksites. Due to its characteristics, the panel is used also for crowd delimitation during sport and leisure events. This fence installation is very easy and quick and due to its reduced height of 1200 mm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

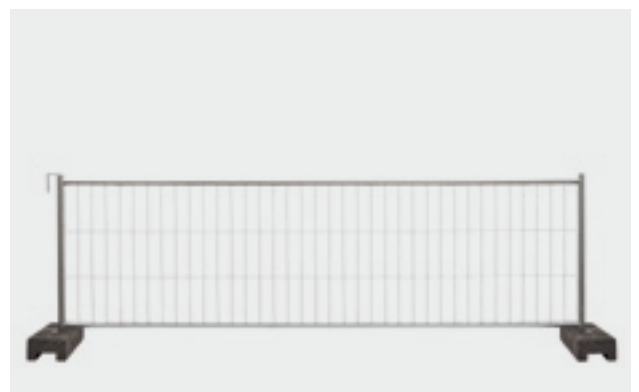


> see page 66

Security Joints

CLS & ABS bases with 38 mm holes

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





DEFENDER CITY

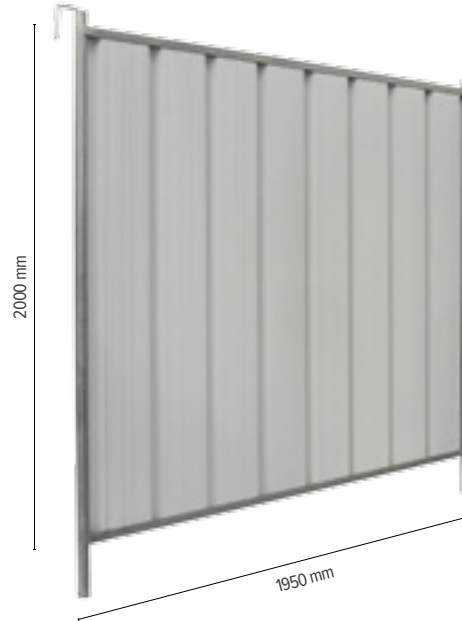
DEFENDER CITY ensures the site privacy and gives a specific connotation to your project. The panels are available in either pre-galvanized or pre-painted gray colour finish; additional colours to suit different aesthetic contexts or to comply with specific municipal regulations are available upon request.

APPLICATIONS

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

PRODUCT SPECIFICATIONS

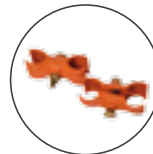
Working site temporary fence 2000 mm high and 1950 mm long, made by a frame of two vertical tubes 40 mm diameter and two horizontal "U" sections welded to one infill pre-galvanized or pre-painted finished steel corrugated sheet. The fence supports are in CLS (cement) or CLS orange colour plastic coated.



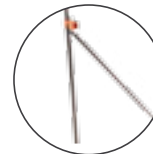
40 mm vertical tubes



Gates



Security Joints



Supporting brace



CLS & ABS bases with 38 mm holes

> see page 66

PANEL		INFILL	TUBE
H	L	Pre-galvanized or pre-painted corrugated steel sheet	vertical
mm	mm		mm
2000	1950		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 diameter at 117 mm centres distance
- > Top and bottom horizontal U profiles
25x50x25x2 mm

Material

- > Steel S235JR 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 TTQST M10x30 security bolts

Posts

- > Flat bar 60x7 mm

Gates

- > Single, double or sliding leaf gates

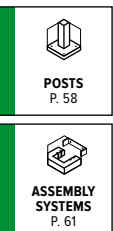
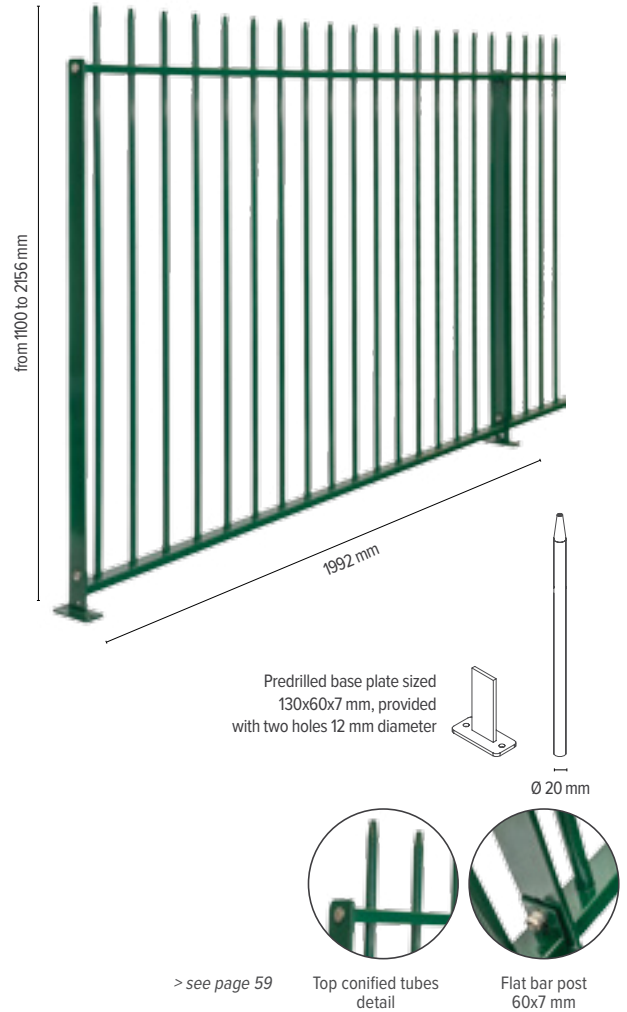
APPLICATIONS

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

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.



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 ²	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





Download



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 provides 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 diameter at 117 mm centres distance
- > Top and bottom horizontal U profiles 25x50x25x2 mm

Material

- > Steel S235JR 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 TTQT M10x30 security bolts

Posts

- > Flat bar 60x7 mm

Gates

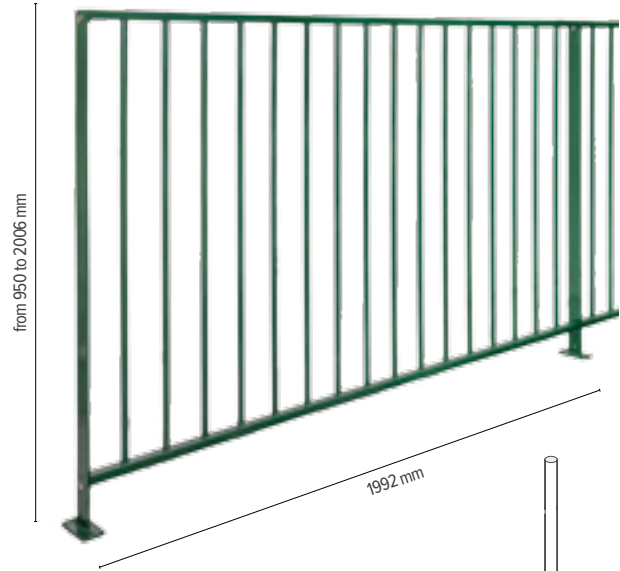
- > Single, double or sliding leaf gates

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.



Predrilled base plate sized 130x60x7 mm, provided with two holes 12 mm diameter



Ø 20 mm



> see page 59

Vertical tubes and horizontal railing detail



Flat bar post 60x7 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/m ²	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



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ASSEMBLY SYSTEMS
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ANTICLEA®



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
- > 12 mm vertical bars at 110 mm centres distance

Material

- > Steel S235JR 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

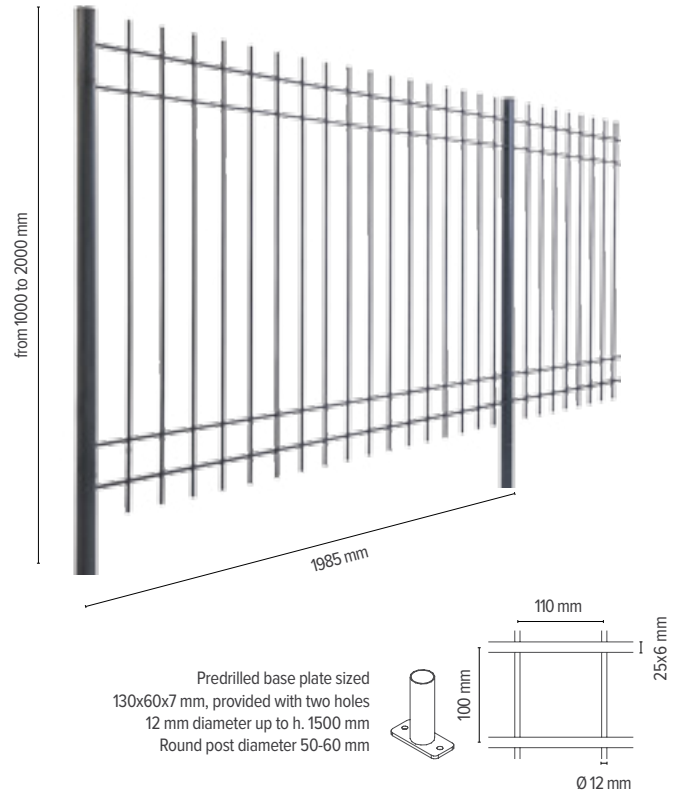
- > Single, double or sliding leaf gates

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.



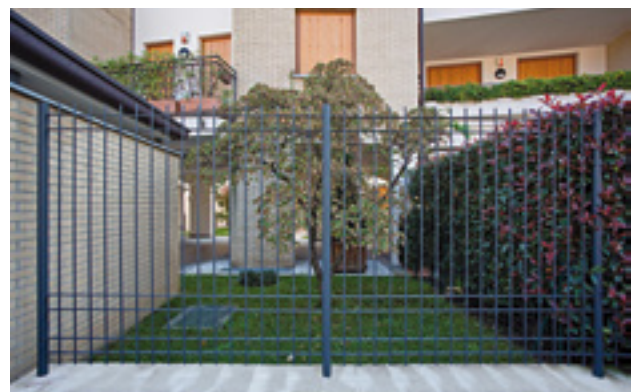
> see page 58-61-64

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		Tube section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m ²	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. 58



ASSEMBLY
SYSTEMS
P. 61



CAPS
P. 64



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 17 mm diameter with top lily ends at 110 mm centres distance
- > Top and bottom horizontal U profiles 20x30x20x3 mm

Material

- > Steel S235JR 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

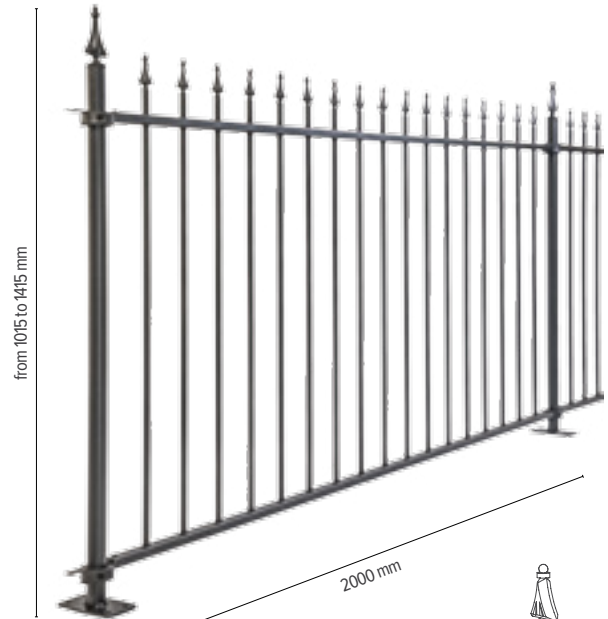
APPLICATIONS

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

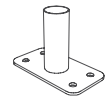
PRODUCT SPECIFICATIONS

RECINTHA® GIGLIO railing fence modular standard panels are made up of vertical tubes 17 mm diameter, 1.5 mm thick with top GIGLIO ends at 110 mm centres distance, completed with top and bottom horizontal "U" profiles sections 20x30x20x3 mm, provided with a drilled lug to join panels to 40 mm diameter posts.

Post centers distance: 2000 mm.



Predrilled base plate sized 150x80x4 mm, provided with four holes 12 mm diameter
Round tube post: 40 mm diameter



Ø 16 mm



> see page 58-61

Top GIGLIO ends



Crab-type joint

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Tube section	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m ²	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 products, 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 two different types of posts, a classic flat bar, or a squeezed round tube post exclusive to the ORSOGRIL brand.

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 with base plate or without for concrete anchoring
- > TTQST M10x30 stainless steel security bolt

Posts

- > 60x7 - 80x8 mm flat bar posts with base plate or without for concrete anchoring
- > Ø 50 mm round tube post with base plate or for concrete anchoring

Gates

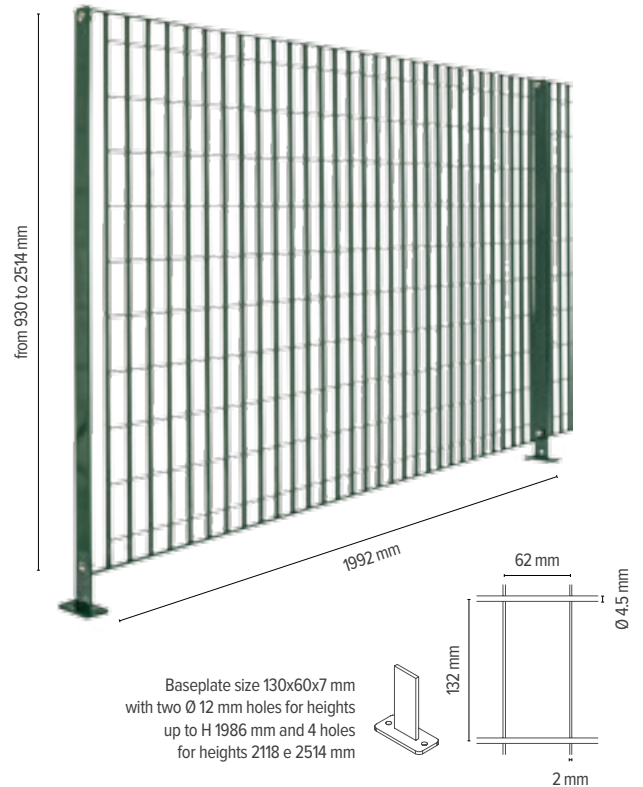
- > Single, double or sliding leaf gates

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 62x132 mm with 25x2 mm vertical flat bars (centres distance 62 mm) and 4.5 mm diameter horizontal round bars (centres 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



> see pages 59-61

	POSTS P. 58
	ASSEMBLY SYSTEMS P. 61
	CAPS 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 ²	mm	n°	mm	kg/ea	mm	kg/ea
930	1992	16.27	8.78	60x7	2	1210	4.4	1011	4.2
				Ø 50	2	1210	3.1	1083	3.3
1194	1992	19.96	8.39	60x7	2	1494	5.4	1275	5.2
				Ø 50	2	1494	3.9	1347	4.0
1326	1992	21.82	8.26	60x7	2	1625	5.9	1407	5.7
				Ø 50	2	1625	4.2	1479	4.4
1458	1992	23.64	8.14	60x7	2	1758	6.4	1539	6.1
				Ø 50	2	1758	4.6	1611	4.7
1722	1992	27.34	7.97	60x7	2	2015	7.3	1803	7.1
				Ø 50	2	2015	5.2	1875	5.4
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





STEROPE® 3, the stronger version for the classical STEROPE® style manufactured with a 25x3 mm bearing bar, matches elegance and aesthetic with solidity and transparency. These characteristics are ensured by the rectangular mesh that makes it an extremely versatile product. STEROPE® 3 fencing panels can be combined with two different types of posts, a classic flat bar or an ORSOGRIL exclusive squeezed round tube post. Thanks to the NUOVA DEFIM ORSOGRIL new materials careful research, is now also available in the range COR-TEN STEEL STEROPE® LIVE, able to give the project a warm chromatic mutation at free-maintenance costs.

TECHNICAL DETAILS

Dimensions

- > Mesh 62x132 mm
- > Vertical flat bars 25x3 mm
- > Horizontal rounded bars 4.5 mm

Material

- > S235JR UNI EN 10025 Steel
- > COR-TEN 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
- > Ø 50 mm round tube post with base plate or without for concrete anchoring

Gates

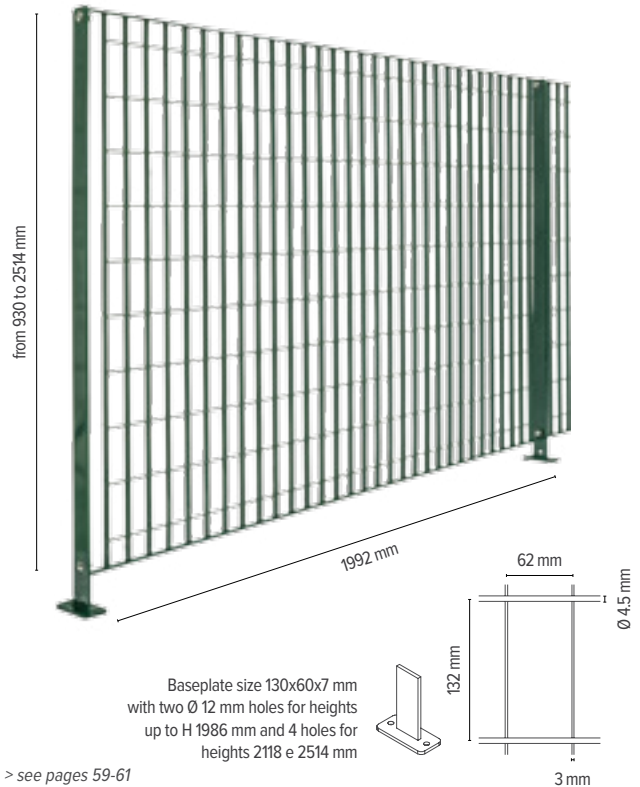
- > Single, double or sliding leaf gates

APPLICATIONS

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

PRODUCT SPECIFICATIONS

STEROPE® 3 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 25x3 mm vertical flat bars (centres distance 62 mm) and 4.5 mm diameter horizontal round bars (centres distance 132 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



> see pages 59-61



Squeezed round post Ø 50 mm

Flat bar post 60x7, 80x8 mm

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

Adjusting bracket (straight)

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 ²	mm	n°	mm	kg/ea	mm	kg/ea
930	1992	21.91	11.83	60x7	2	1210	4.4	1011	4.2
				Ø 50	2	1210	3.1	1083	3.3
1194	1992	27.21	11.44	60x7	2	1494	5.4	1275	5.2
				Ø 50	2	1494	3.9	1347	4.0
1326	1992	29.87	11.31	60x7	2	1625	5.9	1407	5.7
				Ø 50	2	1625	4.2	1479	4.4
1458	1992	32.53	11.20	60x7	2	1758	6.4	1539	6.1
				Ø 50	2	1758	4.6	1611	4.7
1722	1992	37.83	11.03	60x7	2	2015	7.3	1803	7.1
				Ø 50	2	2015	5.2	1875	5.4
1986	1992	43.16	10.91	60x7	3	2336	8.5	2067	8.0
2118	1992	45.82	10.86	80x8	3	2470	13.7	2199	12.9
2514	1992	53.78	10.74	80x8	3	2915	16.1	2595	15.1



	POSTS P. 58
	ASSEMBLY SYSTEMS P. 61
	CAPS P. 64



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 two different types of posts, a 60x7 or 80x8 mm classic flat bar or an Orsogrill exclusive squeezed round tube post.

TECHNICAL DETAILS

Dimensions

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

Material

- > S235JR UNI EN 10025 Stee

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
- > Ø 50 mm round tube post with base plate or without for concrete anchoring

Gates

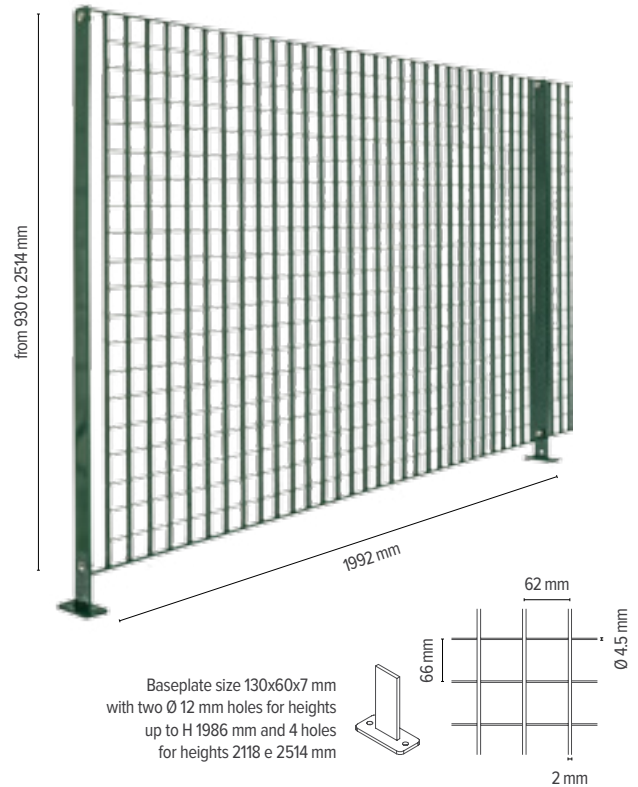
- > Single, double or sliding leaf gates

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



Squeezed round post Ø 50 mm
 Flat bar post 60x7, 80x8 mm
 Intermediate fixing brackets only for heights 1986, 2118 and 2514 mm
 Adjusting bracket (straight)

> see pages 59-61

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/m ²	mm	n°	mm	kg/ea	mm	kg/ea
930	1992	17.91	9.67	60x7	2	1210	4.4	1011	4.2
				Ø 50		1210	3.1	1083	3.3
1194	1992	22.07	9.28	60x7	2	1494	5.4	1275	5.2
				Ø 50		1494	3.9	1347	4.0
1326	1992	24.14	9.14	60x7	2	1625	5.9	1407	5.7
				Ø 50		1625	4.2	1479	4.4
1458	1992	26.23	9.03	60x7	2	1758	6.4	1539	6.1
				Ø 50		1758	4.6	1611	4.7
1722	1992	30.39	8.86	60x7	2	2015	7.3	1803	7.1
				Ø 50		2015	5.2	1875	5.4
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

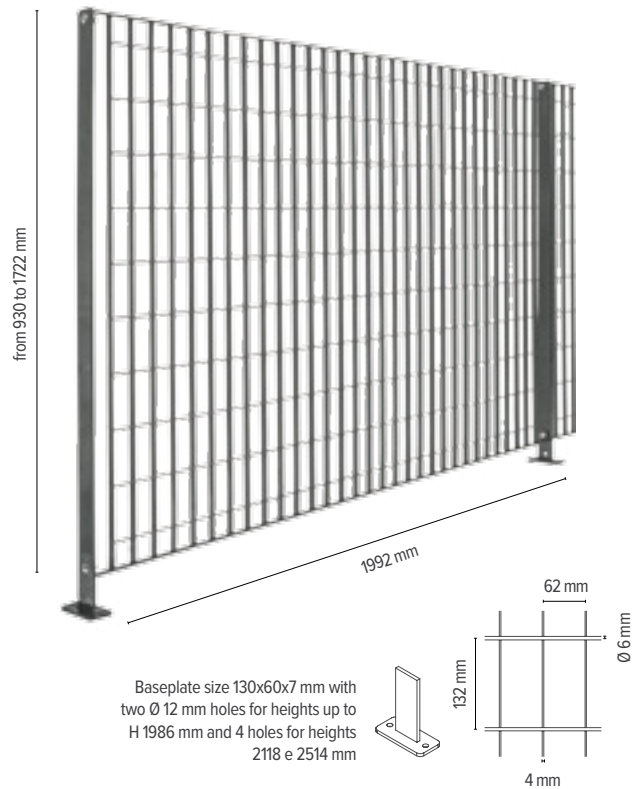
- > Single, double or sliding leaf gates

APPLICATIONS

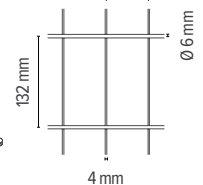
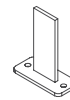
- > Industrial facilities
- > Airports
- > Military sites
- > Infrastructures
- > Industrial areas
- > Residential areas
- > Custom areas

PRODUCT SPECIFICATIONS

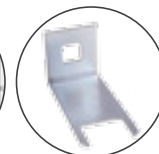
BRITOSTEROPE® electro-welded mesh fencing consists of modular monolithic panels, not joined nor welded side by side, with a height of ... mm, width 1992 mm, mesh size 62x132 mm, with 30x4 mm vertical flat bar (centres distance 62 mm) and 6 mm diameter horizontal round bars (centres distance 132 mm). 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.



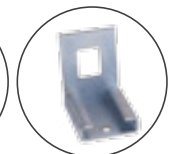
Baseplate size 130x60x7 mm with two Ø 12 mm holes for heights up to H 1986 mm and 4 holes for heights 2118 e 2514 mm



Flat bar post 60x7 mm



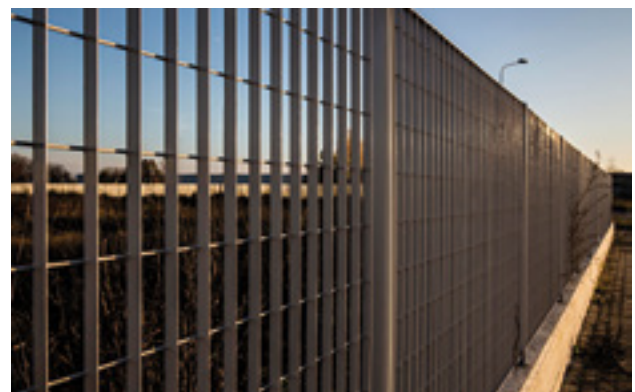
Intermediate fixing brackets only for heights 1986, 2118 and 2514 mm



Adjusting bracket (straight)

> see pages 59-61

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/m ²	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 P. 58
	ASSEMBLY SYSTEMS P. 61
	CAPS P. 64



MEROPE® offers an excellent ratio between transparency and robustness due to the different position of the bearing bars placed horizontally. The special C-shaped post integrated in the panel provides time saving and ease of installation.

TECHNICAL DETAILS

Dimensions

- > Mesh 124x62 mm
- > Horizontal flat bars 25x2 mm
- > Vertical round bars 4.5 mm

Material

- > S235JR 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

- > M6x30 stainless steel bolt

Posts

- > Welded "C" shaped special profile post 49x25x11x2 mm

Gates

- > Single, double or sliding leaf gates

APPLICATIONS

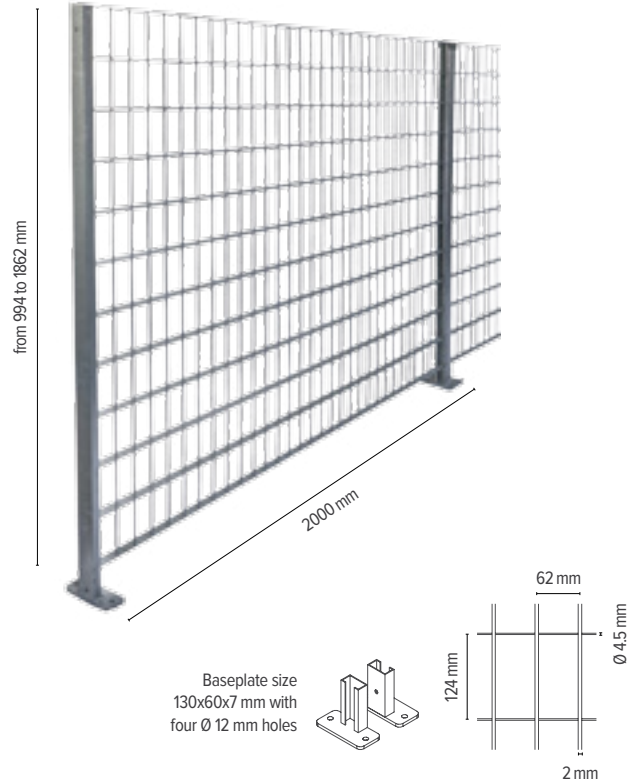
- > Industrial areas
- > Residential areas
- > Commercial areas
- > Public buildings
- > School buildings

PRODUCT SPECIFICATIONS

MEROPE® is a welded mesh grating system made up of modular monolithic panels, not jointed or abreast, height ... mm, width 2000 mm, mesh size 124x62 mm, with 25x2 mm horizontal flat bars (centres distance 124 mm) and Ø 4.5 mm vertical round bars (centres distance 62 mm). The panels are supported by special symmetric 49x25x11x2 mm C-shaped symmetrical posts, welded at both ends to form a single structure ready for installation. They come pre-drilled for joining adjacent panels and erecting the fencing.

Centre distance: 2000 mm.

The top of the post is protected and sealed by a black Moplen® cap.



> see pages 59-63-64

49x25x11 mm C-shaped welded post

M6x20 stainless steel hexagon head screw

Moplen® cap

PANEL				POST		Post to be set in concrete		Post with base plate	
H	L	Weight		Section C	Fixing points	L	Weight galv.	L	Weight galv.
mm	mm	kg/ea	kg/m ²	mm	n°	mm	kg/ea	mm	kg/ea
994	2000	15.9	8.03	49x25x11x2	welded	1295	2.7	1075	2.6
1366	2000	21.3	7.83	49x25x11x2	welded	1667	3.5	1447	3.4
1862	2000	28.6	7.7	49x25x11x2	welded	2163	4.5	1943	4.4

- POSTS P. 58
- ASSEMBLY SYSTEMS P. 61
- CAPS P. 64





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 having in the upper panels, wires different centres distance from the lower ones. This structure ensures good visibility, robustness and anti-climbing properties.

TECHNICAL DETAILS

Dimensions

- > Mesh 124x100 (top panel)
- > Mesh 124x50 (bottom panel)
- > Horizontal flat bars 25x3 mm
- > Vertical round bars Ø 4.5 mm

Material

- > S235JR 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

Posts

- > IPE100

Gates

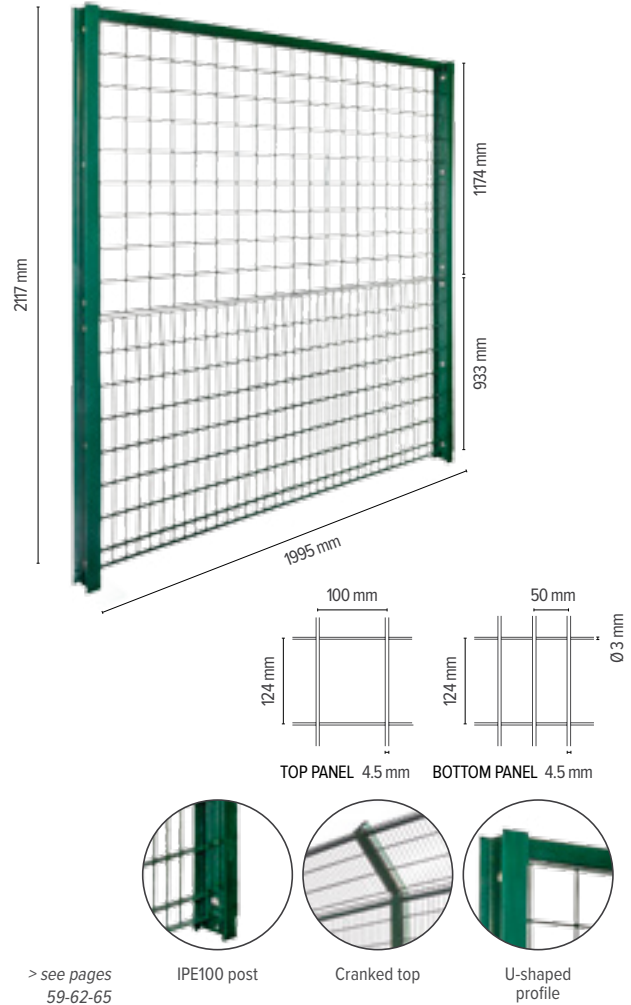
- > Safety gates built in compliance with the application laws on partitions in football grounds and stadiums

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 933 mm, width 1995 mm, mesh 124x50 mm, 25x3 mm horizontal flat bars, Ø 4.5 mm vertical round connection bars, 25x3 mm drilled vertical sides frame bars. **TOP PANEL:** height 1174 mm, width 1995 mm, mesh 124x100 mm, 25x3 mm horizontal flat bars, Ø 4.5 mm vertical round connection bars, 25x3 mm drilled vertical sides frame bars. **INCLINED TOP PANEL:** height 540 mm, mesh 124x100 mm, 25x3 mm horizontal flat bars, Ø 4.5 mm vertical round connection bars, 25x3 mm drilled vertical sides frame bars. **IPE100 post,** length 2550 mm (or 2630+560 mm), drilled for connecting to the two panels and for anchoring the fence to the ground.



> see pages 59-62-65

	PANEL				POST		Post to be set in concrete	
	H	L	Weight		Section	Fixing points	L	Weight galv.
	mm	mm	kg/ea	kg/m ²				
Without cranked top	933	1995	20.1	10.8	IPE 100	6	2550	22.7
	1174	1995	28.1	12.0				
With cranked top	933	1995	20.1	10.8	IPE 100	8	2630 + 560	28.4
	1174	1995	28.1	12.0				
	539	1995	13.2	12.3				



	POSTS P. 58
	ASSEMBLY SYSTEMS P. 61
	CAPS P. 64

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

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

- > TTQST M10x30 stainless steel security bolt

Posts

- > 80x8 mm flat bar posts for concrete anchoring

Gates

- > Single, double or sliding leaf gates

APPLICATIONS

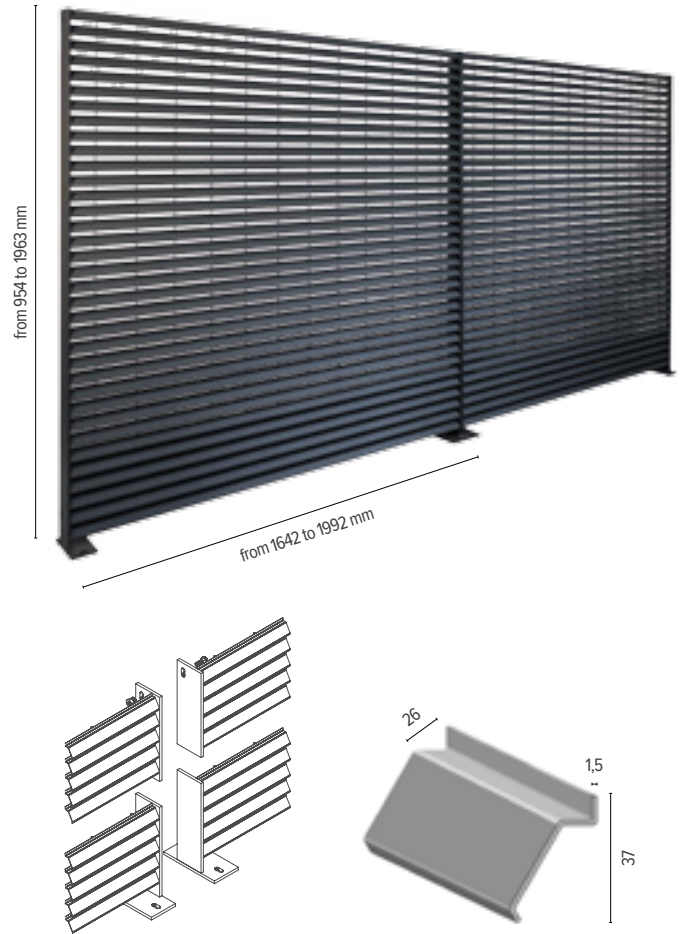
- > Luxury housing
- > Technical areas
- > Public buildings

PRODUCT SPECIFICATIONS

TALIA® VENTUS fencing consists of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centres distance 46 mm), 4 mm diameter round vertical joining bars (centres 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.



POSTS
P. 58



ASSEMBLY
SYSTEMS
P. 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/m ²	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

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 panel integration, making the system even quicker and easier to install.

TECHNICAL DETAILS

Dimensions

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

Material

- > S235JR UNI EN 10025 Steel
- > COR-TEN 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

- > TTQST M10x30 stainless steel security bolt

Posts

- > 80x8 mm flat bar posts for concrete anchoring

Gates

- > Single, double or sliding leaf gates

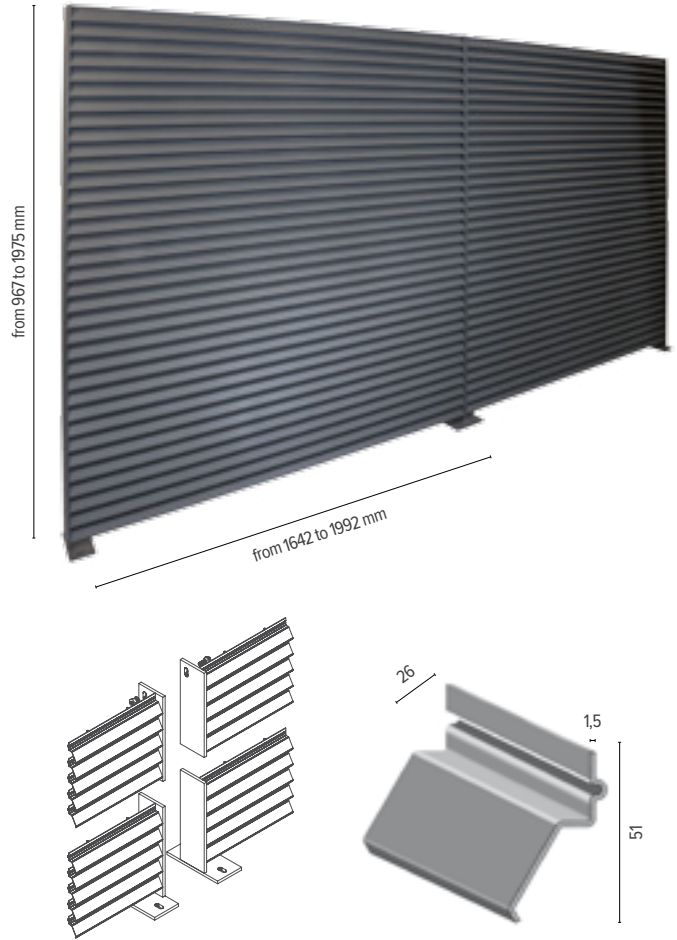
APPLICATIONS

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

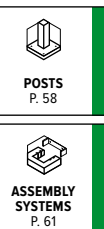
PRODUCT SPECIFICATIONS

TALIA® SCREEN VENTUS fencing consists of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centres distance 46 mm), 4 mm diameter round vertical joining bars (centres 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.



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	45.4	28.5	80x8	2	1200	6.6	1014	6.2
967	2000	52.4	27.1	80x8	2	1200	6.6	1014	6.2
1608	1650	74.0	27.9	80x8	2	1850	10.2	1655	9.8
1608	2000	85.5	26.6	80x8	2	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 oxidising processes, the steel characterising this system is a "live" material, in that its hues and nuances may change over time, thereby enhancing the architectural design with a play of light and shadow created by the cladding lamellas.

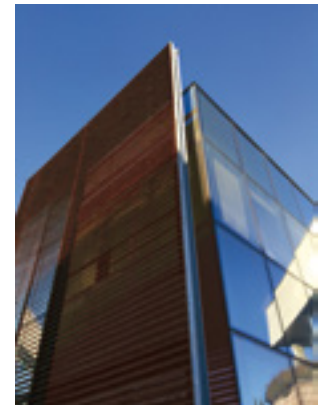
An elegant, pure, rigorous design for timeless architecture. TALIALIVE has been developed using a material that reinterprets traditional iron-working artisanship in a modern way. An original choice of high aesthetic value for design solutions.



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:

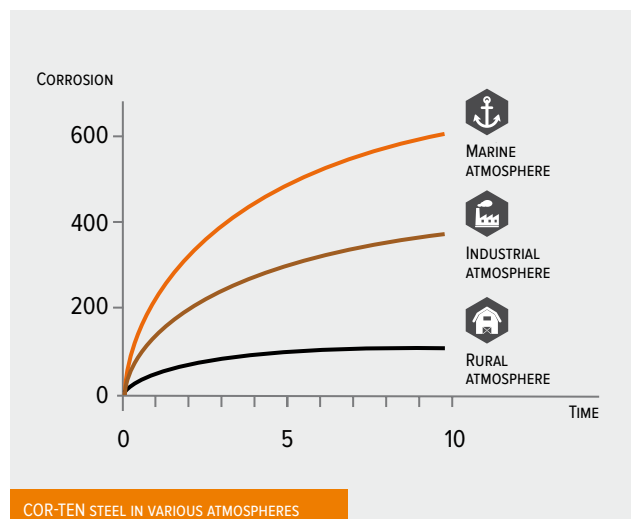
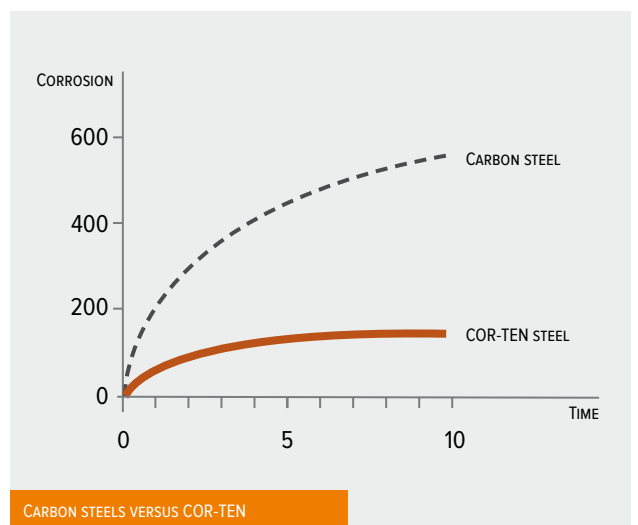
- > no maintenance costs
- > corrosion resistance five to eight times higher than carbon steel
- > high mechanical strength




TALIA, MORE SOLUTIONS FOR YOUR PROJECT


From the development of new architectural solutions, TALIALIVE is an innovative welded "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.





POSTS
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ASSEMBLY SYSTEMS
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TALIALIVE



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 round bars Ø 4 mm

Material

- > COR-TEN S355JOWP steel

Coating

- > Possible pickling

Fixing system

- > TTQST M10x30 stainless steel or Nerinox security bolts

Post

- > Flat 60x7 or bespoke on demand

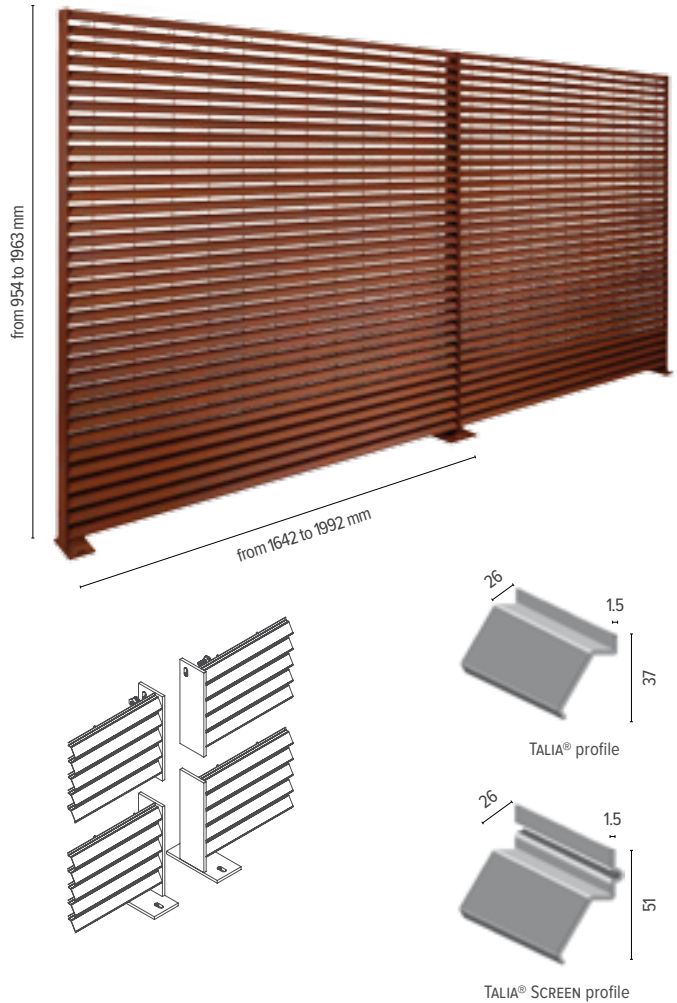
APPLICATIONS

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

PRODUCT SPECIFICATIONS

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

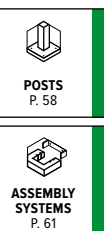
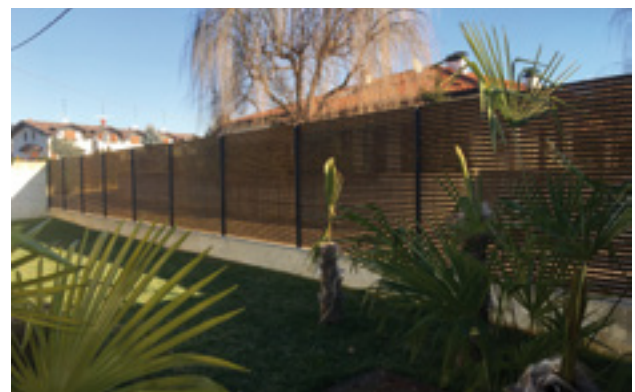


TALIALIVE

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/m ²	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/m ²	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

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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 galvanized and powder coated and

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



GATES

[Download](#)


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

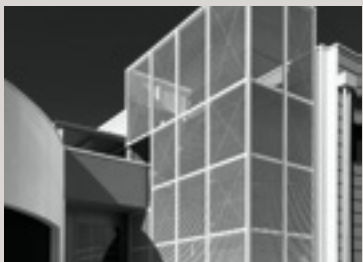
according to the UNI EN 13200 norm (on request), both in the Stadium grating version and the Stadium welded wire one.





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" colours, 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

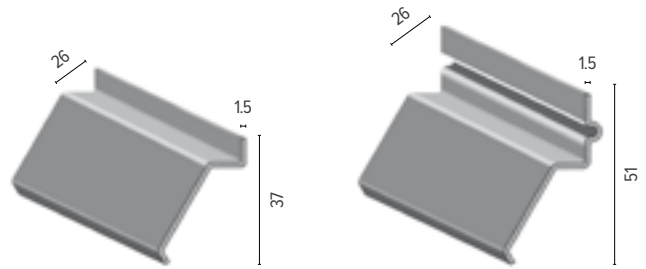
- > S235JR UNI EN 10025 steel
- > COR-TEN steel S355 JOWP

Coating

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

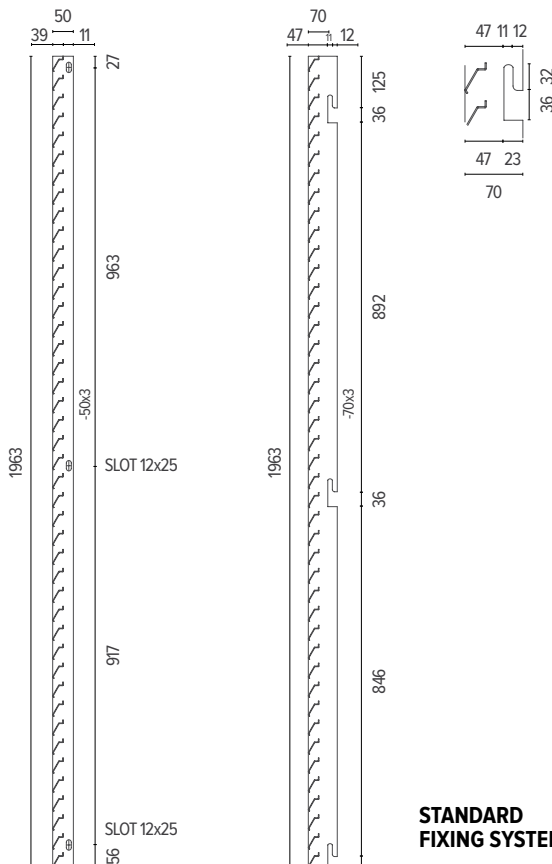
PRODUCT SPECIFICATIONS

Wall cladding system consisting of S235JR slatted steel or COR-TEN steel, 46x132 mesh size, welded to 4 mm diameter vertical round bars.



TALIA® profile

TALIA® SCREEN profile



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ASSEMBLY SYSTEMS
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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 4 mm

Material

- > S235JR UNI EN 10025 steel (solid profile)
- > S235JR 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), 4 mm diameter round bar vertical connections (centres distance 200 mm).

SOLID PROFILE

Material: S235JR UNI EN 10025 steel

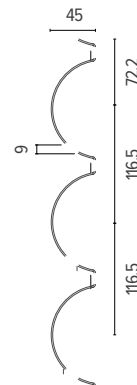
MICRO-PERFORATED PROFILE

Material: S235JR UNI EN 10025 Sendzimir steel.

Finish: polyester powder coating on hot-dip galvanized 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.



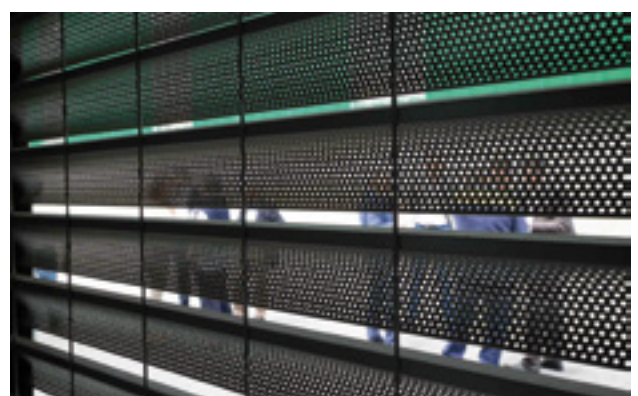
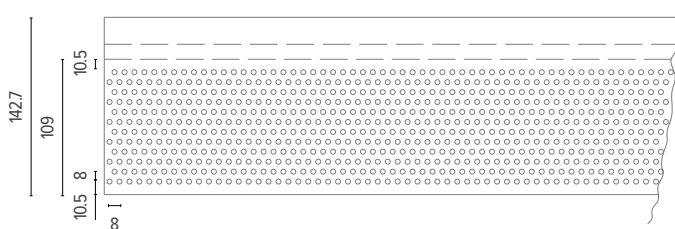
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ASSEMBLY SYSTEMS
P. 61

PANEL				MESH		CROSS WIRE
H	L	Weight		H	L	Ø
mm	mm	kg/ea	kg/m ²	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

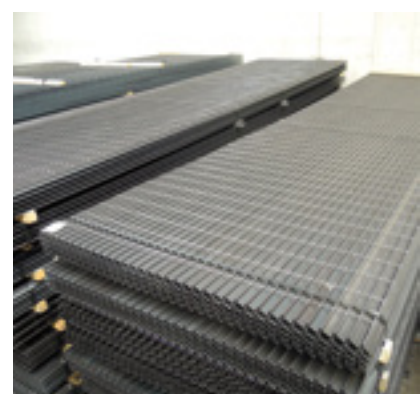
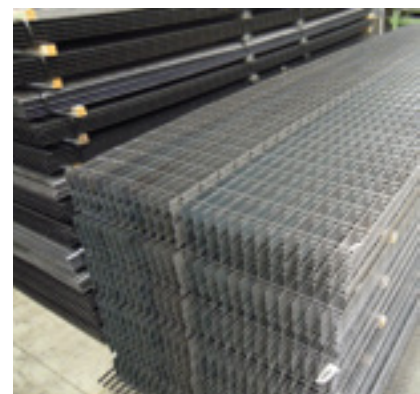
- > S235JR UNI EN 10025 steel
- > COR-TEN steel

Coating

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



TIPO	PANEL			MESH		BEARING BAR		CROSS WIRE	PACKAGING
	H mm	L mm	Weight kg/ea	A mm	B mm	H mm	S mm	Ø mm	no. 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		4.5	5
TETI MICRO-PERFORATED 1 SENDZIMIR	5500	1972	152.6	116	200	sp. 1.5		4.5	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



Accessories



Download



ACCESSORIES

link: www.nuovadefim.com/en/content/download-area



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ASSEMBLY SYSTEMS_ P. 61
FIXING SYSTEMS
ACCESSORIES
SCREWS

FENCING ACCESSORIES_ P. 62

CAPS_ P. 64

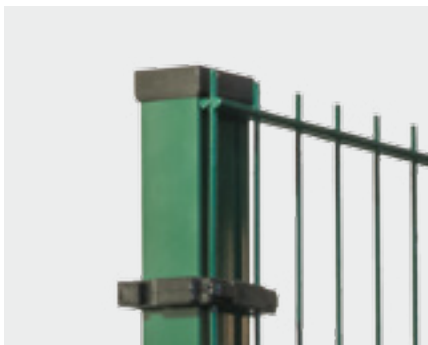
RECINTHA®
ACCESSORIES_ P. 65

DEFENDER
ACCESSORIES_ P. 66

GRATING
ACCESSORIES_ P. 67



POSTS



SQUARE POST 60x60 mm

- > 60x60 mm square 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® 202 [page 29]
- > RECINTHA® P.G. [page 30]

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 1462; 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
- > Slots provided for fixing straight fence sections or corners

Accessory for

- > ANTICLEA® [page 38]

Product code

PIA50XXXX



ROUND POST Ø 40 mm

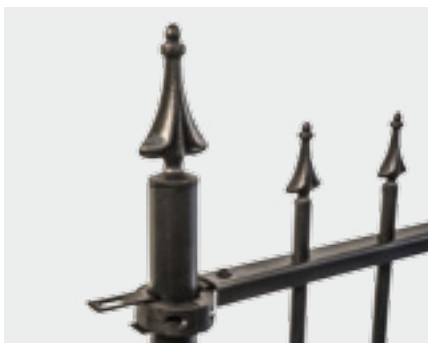
- > Ø 40 mm round post, thickness 1.2 mm
- > Hot-dip galvanized and polyester powder coated finish
- > Available models: with base plate or for concrete anchoring
- > Base plate size: 150x80x4 mm with four Ø 12 mm holes

Accessory for

- > RECINTHA® N/L [page 28]
- > RECINTHA® P.G. [page 30]

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 39]

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 security bolt

Accessory for

- > RECINTHA® SAFETY [page 31]

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 model: for concrete anchoring

Accessory for

- > RECINTHA® SAFETY [page 31]
- > RECINTHA® 202 [page 29]

Product code

RCOM3060XXXX

Flat cover plate: RCPT4090XXXX



POSTS

Product Specifications



Download



OMEGA POST & FLAT COVER PLATE 120x60x30x3 mm

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

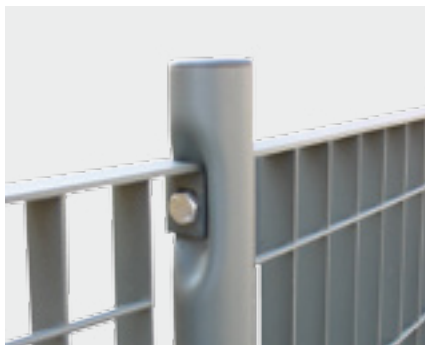
Accessory for

- > RECINTHA® 202 [page 29]
- > RECINTHA® SAFETY [page 31]
- > RECINTHA® STADIUM [page 32]

Product code

RCOM3120XXXX

Flat plate: RCPT40120XXXX



SQUEEZED ROUND TUBE POST Ø 50 mm

- > Ø 50 mm round post, thickness 2 mm
- > Material: hot-dip galvanized steel according to UNI EN ISO 1462; 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
- > Slots provided for fixing straight fence sections or corners

Accessory for

- > PLEIONE® [page 42]
- > STERPE® [page 40]

Product code

PIA50XXXX



FLAT BAR POST 80x8 mm

- > 80x8 mm flat bar post for grating panels over 2 metres height
- > Material: hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- > Available models: with base plate installation, 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 61

Accessory for

- > STERPE® [page 40]
- > BRITOSTERPE® [page 43]
- > PLEIONE® [page 42]

Product code

PIA808XXXX



FLAT BAR POST 60x7 mm

- > 60x7 mm flat bar post for grating panels up to 2 metres height
- > Material: hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- > Available models: with base plate installation, 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 61

Accessory for

- > STERPE® [page 40]
- > BRITOSTERPE® [page 43]
- > PLEIONE® [page 42]
- > ACUMINA® [page 36]
- > CELENO® [page 37]

Product code

PIA607XXXX



WELDED "C" SECTION POST 49x25x11 mm

- > 49x25x11 mm C section post, thickness 2 mm, directly welded to Merope panel
- > Material: hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- > Available models: with base plate installation, or for concrete anchoring
- > Base plate size: 130x60x7 mm with two Ø 12 mm holes
- > Provided with a top hole for fixing each panel to the next one

Accessory for

- > MEROPE® [page 44]

Product code

PIAMERXXXX



IPE100 POST

- > IPE100 POST
- > Material: hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- > Available model for concrete anchoring

Accessory for

- > STADIUM® [page 45]

Product code

PIA1XXXX



POSTS

Product
Specifications



Download



CUSTOM MADE POSTS FOR SPECIFIC PROJECTS

> Posts with different profiles can also be provided
for specific requirements

Accessory for

> all fencing systems [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, either using 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® 202 [page 29]
- > RECINTHA® P.G. [page 30]

Product code

49001023INOX



FIXING SYSTEMS

CRAB-TYPE CLIP Ø 40 mm ROUND POST

- > Crab-type joint clip in black reinforced plastic
- > It offers different types of fixing solutions, either using 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® P.G. [page 30]
- > RECINTHA® GIGLIO [page 39]

Product code

GRANCHIOXXX



FIXING SYSTEMS

HIDDEN PIN

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

Accessory for

- > ANTICLEA® [page 38]

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 31]

Product code

MESHCLIPX...



ACCESSORIES

INTERMEDIATE FASTENER

- > 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 40]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

Product code

ATTINXXX...



ACCESSORIES

STRAIGHT BRACKET

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

Accessory for

- > STEROPE® [page 40]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

Product code

SQUTELX....

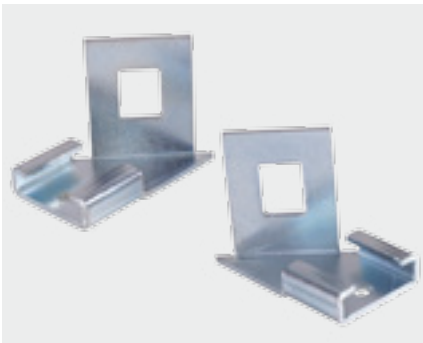


ASSEMBLY SYSTEMS

Product Specifications



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 is also available

Accessory for

- > STEROPE® [page 40]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

Product code

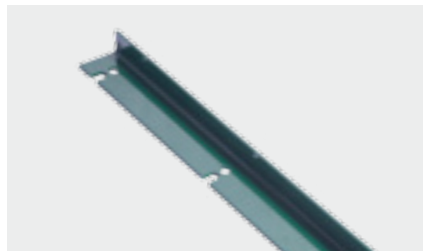
Right: SQUTEL45DXXXX
Left: SQUTEL45SXXXX

FENCING ACCESSORIES

Product Specifications



Download



FIXING SYSTEMS

ANTI-INTRUSION SPIKES

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

Accessory for

- > STEROPE® [page 40]
- > PLEIONE® [page 42]
- > BRITOSTEROPE® [page 43]

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 request
- > Material: hot-dip galvanized finish according to UNI EN ISO 1461 norm
- > 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® 202 [page 29]
- > RECINTHA® SAFETY [page 31]

Product code

RCPNOFFENDXXX



ASSEMBLY SYSTEMS

Product Specifications



Download

SCREWS BOLTS



M6x20 TTQST SS SCREW M6 SS SECURITY BOLT

Accessory for
> RECINTHA® STADIUM [page 32]

Product code
BULANT0620INOX



M6x20 HEXAGON HEAD SCREW M6 SS HEXAGON BOLT

Accessory for
> MEROPE® [page 44]

Product code
BUL0620INOX



M6x35 TTQST SS SCREW M6 SS BOLT

Accessory for
> RECINTHA® SAFETY [page 31]
> RECINTHA® STADIUM [page 32]

Product code
BULANT0635INOX



M8x20 TTQST SS SCREW M8 SS SECURITY BOLT

Accessory for
> RECINTHA® STADIUM [page 32]

Product code
BULANT0820INOX



M8x20 TBEI NERINOX SCREW M8 SS KNURLED FLANGED BOLT

Accessory for
> RECINTHA® GIGLIO [page 39]

Product code
NOT SOLD SEPARATELY



M8x35 TTQST SS SCREW M8 SS SECURITY BOLT

Accessory for
> RECINTHA® SAFETY [page 31]

Product code
BULANT0835INOX

1

M8x60 TTQST SS SCREW M8 SS SECURITY BOLT

Accessory for
> RECINTHA® SAFETY [page 31]

Product code
BULANT0860INOX

2

M8x80 TTQST SS SCREW M8 SS SECURITY BOLT

Accessory for
> RECINTHA® SAFETY [page 31]
> RECINTHA® STADIUM [page 32]

Product code
BULANT0880INOX



3

M10x30 TTQST SS SCREW M10 SS SECURITY BOLT

Accessory for
> ACUMINA® [page 36]
> CELENO® [page 37]
> STEROPE® [page 40]
> PLEIONE® [page 42]
> BRITOSTEROPE® [page 43]
> STADION® [page 45]
> TALIA® VENTUS [page 46]
> TALIA® SCREEN VENTUS [page 47]
> TALIALIVE [page 48]

Product code
BULANT1030INOX

4

M10x30 HEXAGON HEAD SCREW M10 SS HEXAGON BOLT

Accessory for
> ACUMINA® [page 36]
> CELENO® [page 37]
> STEROPE® [page 40]
> PLEIONE® [page 42]
> BRITOSTEROPE® [page 43]
> STADION® [page 45]
> TALIA® VENTUS [page 46]
> TALIA® SCREEN VENTUS [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 [page 28]
- > RECINTHA® 202 [page 29]

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 38]
- > STEROPE® [page 40]
- > PLEIONE® [page 42]

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® P.G. [page 30]

Product code

RCAC00000026



MOPLEN CAP

- > The accessory tops the post and complete the fence, joining together the two adjacent panels
- > Material: Moplen®

Accessory for

- > MEROPE® [page 44]

Product code

TAPPOMEROPE



RECTANGULAR CAP 120x60 mm

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

Accessory for

- > RECINTHA® SAFETY [page 31]

Product code

RCAC00000007



OMEGA POST CAP

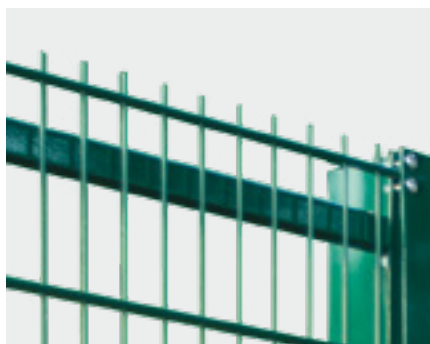
- > Omega post cap in pre-galvanized and painted steel

Accessory for

- > RECINTHA® 202 [page 29]
- > RECINTHA® SAFETY [page 31]

Product code

LAMCHIUSXXX



U-SECTION PROFILE 35x40x5 mm

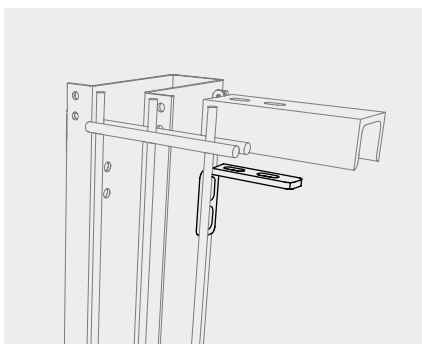
- > U-section profile used on the RECINTHA® STADIUM upper part to strengthen the system
- > Material: hot-dip galvanized and polyester powder coated finish

Accessory for

- > RECINTHA® STADIUM [page 32]

Product code

RCCU4035XXXX



POST/PROFILE FIXING BRACKET

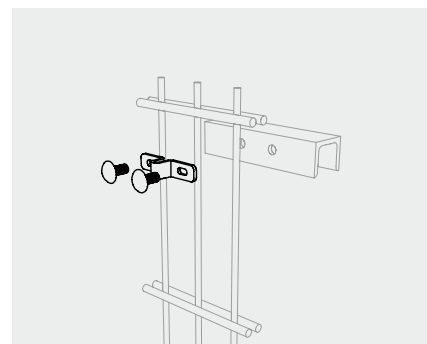
- > RECINTHA® STADIUM accessory
- > Used for fixing the U section profile to the Omega post
- > Material: hot-dip galvanized and polyester powder coated finish

Accessory for

- > RECINTHA® STADIUM [page 32]

Product code

RCSQ520014X



POST/PANEL FIXING CLIPS

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

Accessory for

- > RECINTHA® STADIUM [page 32]

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 30x16x30 mm U-shaped profile predrilled to fix it to the panel

Accessory for

- > RECINTHA® SAFETY [page 31]

Product code

RCCM303016V



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 30]

Product code

RCCM00402000...



HANDRAIL JOINT/ CORNER CONNECTION

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

Accessory for

- > RECINTHA® P.G. [page 30]

Product code

Handrail joint: RCAC00000003

Handrail corner connection: RCAC000000025



GATE KIT

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

Accessory for

- > DEFENDER HD [page 33]

Product code

DFKT00000010



PEDESTRIAN GATE

- > Accessory for DEFENDER HD system
- > Gives access to pedestrians in areas where temporary fencing systems is used
- > Overall width 1054 mm - height 2018 mm
- > Made of shaped 38 mm tubular profile with welded mesh 254x101.6 mm infill panel, wires 2.8x3.8 mm
- > Provided with handle
- > Material: hot-dip galvanized and high-visibility epoxy powder coated (Orange RAL 2004)

Accessory for

- > DEFENDER HD [page 33]

Product code

DFH20001000X



VEHICULAR GATE

- > Accessory for DEFENDER HD system
- > Gives access to vehicles in areas where temporary fencing systems is used
- > Overall width 2070 mm - height 2018 mm
- > Made of shaped 38 mm tubular profile with welded mesh 254x101.6 mm infill panel, wires 2.8x3.8 mm
- > Provided with handle
- > Material: hot-dip galvanized and high-visibility epoxy powder coated (Orange RAL 2004)

Accessory for

- > DEFENDER HD [page 33]

Product code

DFCH20002200X



SECURITY JOINTS

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

Accessory for

- > DEFENDER HD [page 33]
- > DEFENDER MARATHON® [page 34]
- > DEFENDER CITY® [page 35]

Product code

DFAC0000001



WIND BRACE

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

Accessory for

- > DEFENDER HD [page 33]
- > DEFENDER CITY® [page 35]

Product code

DFST00001700



CONCRETE BLOCKS

- > Base for DEFENDER HD system installation provided with four Ø 38 mm or Ø 40 mm holes
- > Size 700x190 mm H 130 mm
- > Approximate weight 30 kg
- > Material: cement with steel armour

Accessory for

- > DEFENDER HD [page 33]
- > DEFENDER MARATHON® [page 34]
- > DEFENDER CITY® [page 35]

Product code

Ø 38 mm holes: DFBS00000001C

Ø 40 mm holes: DFBS00000002C



DEFENDER ACCESSORIES

Product Specifications



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ABS PLASTIC BLOCKS

- > Base for DEFENDER HD system installation provided with four \varnothing 38 mm or \varnothing 40 mm holes
- > Size 660x240 mm H 100 mm
- > Approximate weight 30 kg
- > Material: high-visibility plastic coated concrete (Orange RAL 2004)

Accessory for

- > DEFENDER HD [page 33]
- > DEFENDER MARATHON® [page 34]
- > DEFENDER CITY® [page 35]

Product code

- \varnothing 38 mm holes: DFBS00000001P
- \varnothing 40 mm holes: DFBS00000002P



GRATING ACCESSORIES

Product Specifications



Download



AGLAIA TOP FASTENING CLIP

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

Accessory for

- > All gratings

Product code

- Bottom fixing: GAN#XXXXXSOTZ



CONNECTION CLIPS

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

Accessory for

- > All gratings

Product code

- Top fixing: GANCO#XXXXXSOPZ
- Bottom fixing: GANCO#XXXXXSOTZ

Appendix



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APPENDIX

link: www.nuovadefim.com/en/content/download-area



**LOADING CAPACITY
CLASS 1_** P. 70
DENSE CROWD

**LOADING CAPACITY
CLASS 3_** P. 72
LORRIES

**STAIR TRENDS LOADING
CAPACITY WITH
POINT LOAD_** P. 74

**FORKLIFT LOAD
CAPACITY_** P. 76

**TALIA® VENTUS -
RESISTANCE TO WIND_** P. 79

**LOADING CAPACITY
CLASS 2_** P. 71
CARS

**LOADING CAPACITY
CLASS 4_** P. 73
TRACTOR - TRAILERS

**EMPTY/FULL RATIO
FOR GRATING PANELS_** P. 75

GLOSSARY_ P. 77

RECINTHA SAFETY ACS_ P. 78

LOADING CAPACITY - CLASS 1



DENSE CROWD (PEDESTRIAN FLOW) - UNI 11002-1

Italian Ministerial Decree dated 14 January 2008 - 3.1.4 Category E

Dynamic load 600 daN/m²

Made of S235JR steel - Sigma yield = 23.5 daN/mm² / 1,05 = Comparison sigma = 22.38 daN/mm²

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
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/mm² / 1,05 = Comparison sigma = 22.38 daN/mm²

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/mm² / 1,05 = Comparison sigma = 22.38 daN/mm²

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
	freccia	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/mm² / 1,05 = Comparison sigma = 22.38 daN/mm²

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
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
	freccia	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 TREADS LOADING CAPACITY WITH POINT LOAD

Made of S235JR steel - Sigma yield = 23.5 daN/mm² / 1,05 = Comparison sigma = 22.38 daN/mm²

Max. deflection 5 mm

Max. deflection 1/200 of clear opening

TABLE 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									
	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 bars 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 DIAMETER	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 LOAD CAPACITY

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

ACTIONS INDUCED BY FORKLIFT

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 TRUCK CLASS	Empty weight	Carried load	Axe width A	Total width B	Total length 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 it 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	Dinamic 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 ϕ dynamic coefficient, using the equation (6.3)

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

where:

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

ϕ is the dynamic amplification coefficient;

Q_x is the characteristic static value.

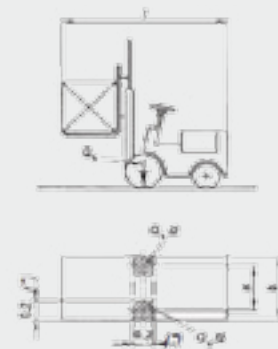
4. The dynamic coefficient ϕ for forklift trucks takes into account the inertial effects caused by acceleration and deceleration of the load carried, and should be set equal to:

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

$\phi = 2,00$ 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 daN/mm^2
- > SR35JR steel.

GLOSSARY

The UNI 11002-1 norm states 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 cross 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 LENGTH (X)

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

PANEL WIDTH (Y)

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

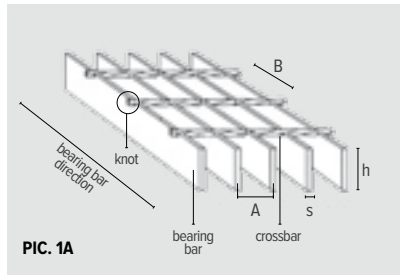
PANEL DIMENSIONS

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

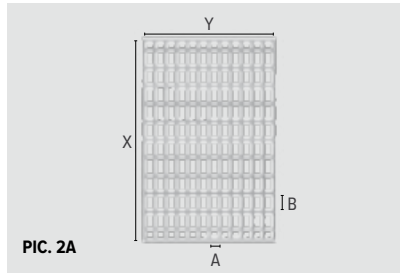
IMPRINT

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

ELECTROFUSED GRATING (GES)

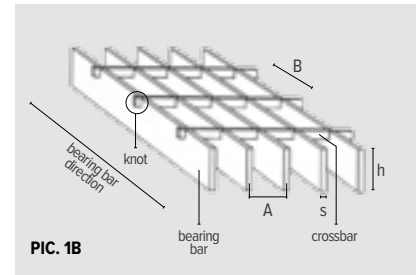


PIC. 1A

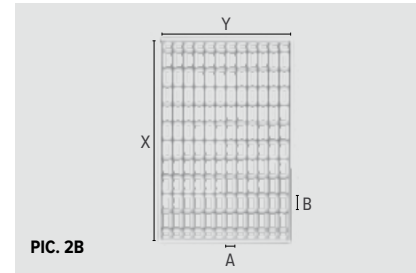


PIC. 2A

PRESS LOCKED GRATING (GP)



PIC. 1B



PIC. 2B

UNIFORMLY DISTRIBUTED LOAD

Load uniformly spread out on the whole panel surface.

LOAD CONCENTRATED ON IMPRINT

Load affecting the imprint area only.

DEFLECTION

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

NET SPAN BETWEEN SUPPORTS (Ln)

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

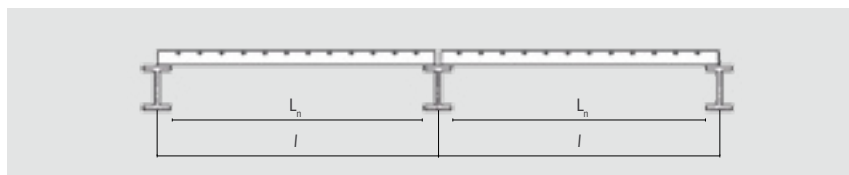
GRATING FOR WORKING PLATFORMS AND WALKWAYS

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

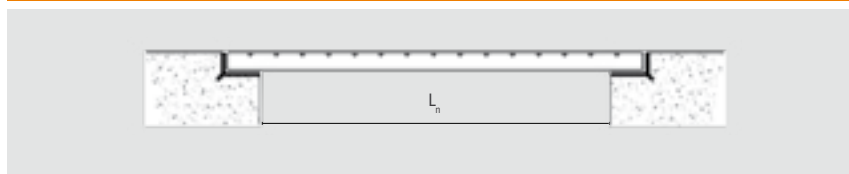
OFFSHORE GRATING

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



RECINTHA SAFETY ACS

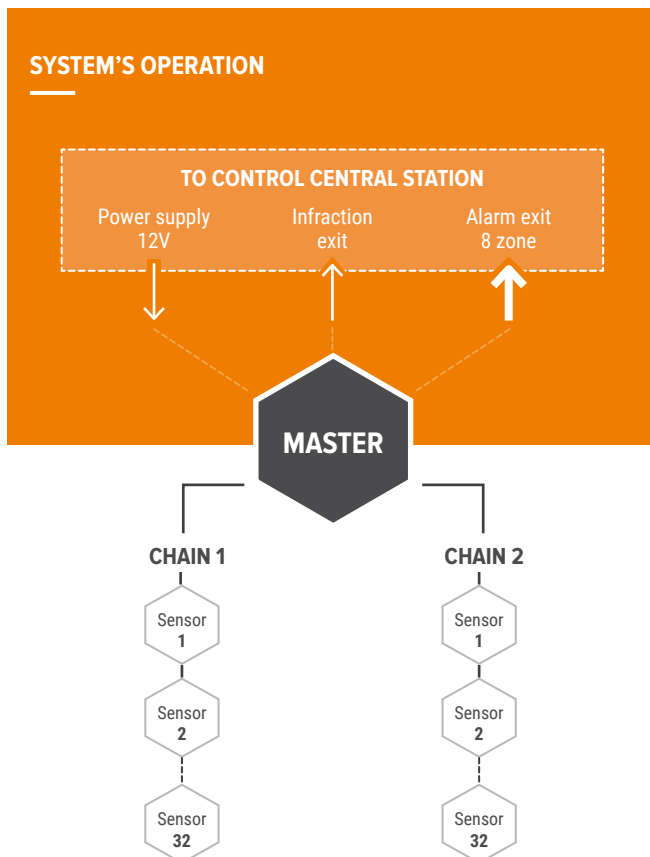
The new RECINTHA SAFETY ACS smart fence was born from the exclusive collaboration between Nuova Defim and its technological partner TSEC. The more sophisticated technological developments merging to NUOVA DEFIM's sturdy solutions leads to the highest levels of perimeter security. The system consists of sensors' chains connected to a master. Every single chain is completed with 32 prewired sensors, installed every two RECINTHA SAFETY posts, with 5 meters span maximum between them, along a 160 meters length. The chain of sensors must be connected to a central master of analysis supporting 2 chains of 32 sensors each maximum (for a total of 320 linear meters of fence).

TECHNICAL FEATURES

- > System based on mems accelerometers
- > Active prewired sensor, fully treated with resin
- > Waterproof system suitable for outdoor use from -40 to +90 °C
- > Sensors parameters individually adjustable by an app
- > Ability to discriminate individual events
- > Custom settings
- > Tamper proof sensor due to the possibility to detect its orientation in space
- > Versatile system able to work with any existing or new alarm, to ensure maximum flexibility and practicality

INTEGRATION WITH RECINTHA SAFETY

- > Fully integrated fence protection sensors on RECINTHA SAFETY ACS
- > Cables and sensors are protected and invisible (installation is made with security bolts)
- > The system is set to the fence and can be further fine-tuned according to the end user needs or the area to be protected
- > Dedicated App to ensure easy installation is provided: the system is configured to the smartphone by Wsync



ADVANTAGES



TALIA® VENTUS - RESISTANCE TO WIND

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

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



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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
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