GENERAL CATALOGUE

Electrowelded mesh
Grating
Fences
Wall cladding
PAN™ line

DEFIM ORSOGRIL
STEEL & STYLE

GENERAL CATALOGUE

Electrowelded mesh
Grating
Fences
Wall cladding
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DEFIM ORSOGRIL
STEEL & STYLE

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OUR GROUP

FERALPI GROUP

Continuous innovation, mutual trust, expertise of the people and research and development projects to achieve maximum efficiency. Feralpi Group is constantly evolving, with a strong commitment to the circular economy.

These are the elements that define our identity and guide us into the future, with a focus on quality, decarbonisation and inclusion.

Feralpi Group is among the leading steel producers in Europe and specialises in the production of steels for both construction and special applications.

Starting with the parent company Feralpi Siderurgica, founded in 1968 in Lonato del Garda (Brescia), an uninterrupted growth path has led to the international group present today in 7 countries. From January 2009, Defim Orsogril has been a wholly-owned subsidiary of Feralpi Group and is fully and vertically integrated into the Feralpi Group structure, which guarantees full support for the multi-year development plan of the Diverse Products Business Unit.

DEFIM ORSOGRIL AND SAEXPA

TOGETHER WE FORM THE FERALPI GROUP'S DIVERSE PRODUCTS BUSINESS UNIT.

Defim Orsogril and Saexpa, Feralpi Group companies, are the only European player specializing in the production of electrowelded mesh and gratings, offering an exclusive range of standard and customized solutions for fencing and facade cladding for industrial, residential, and civil applications.

In addition, thanks to a recent acquisition, we offer solutions for the logistics market with a wide range of products such as shelving and anti-collapse panels for racking.

THE SPECIALISTS IN ELECTROWELDED SOLUTIONS

Thanks to more than 50 years of expertise, we are present in markets all over the world with products that combine flexibility and practicality for every industrial, logistics, construction, residential and sports sector.

We are committed to developing solutions adapted to each customer, precisely responding to the specific needs of different markets and sectors, guaranteeing innovation, quality and concrete results.

+5 MLN
OF PANELS PRODUCED PER YEAR

60.000
TONNES PRODUCED PER YEAR

+200
EMPLOYEES

+40
COUNTRIES WHERE WE SELL OUR SOLUTIONS

COMPANY

DEFIM ORSOGRIL

Defim Orsogril is a recognised leader in the national and international market, offering mesh and grating solutions. The product range is extensive, spanning from special electro-welded mesh to Orsogril-branded gratings, as well as fences and gates for professional, industrial, and residential use.

COMPANY DATA

2
WORKING SITES

450
KM OF FENCING/YEAR

25.000
STEEL TONS/YEAR

EXPERIENCE
We were born from the union of two Italian companies with deep roots in the local area, Defim and Orsogril, which have a track record of expertise and professionalism in the mesh and gratings sector and creating customised solutions for customers.

ENTERPRISE
We want to be a benchmark in the European market, look for new growth opportunities and face all the challenges of the industry to be more competitive and ahead of the game. We are convinced that investing in research and development is crucial to contribute to technological progress and ensuring a more sustainable tomorrow.

INNOVATION
We believe that innovation combined with experience is the perfect mix to develop state-of-the-art solutions that meet all functional and design needs.

PASSION
Energy, optimism and positivity are the principles that guide us in our work. We share a passion that drives us every day to improve, as a company, as a Group and above all as people.

COLLABORATION
The professionalism and passion of the people are the greatest value for us. Thanks to the enthusiasm of all those who work with us and as part of a team, we build relationships based on trust to achieve ever more ambitious goals.

ONE COMPANY FOR ALL THE SOLUTIONS YOU NEED

As the only European manufacturer to offer both mesh and grating products under the Orsogril brand name, our company combines tradition and advanced technology to guarantee a service that meets the expectations of the world of steel, industry and construction. We also specialize in vertical sectors including major works, residential, sports and high security, and are a member of the Feralpi Group.

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 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.

THE OFFER

QUALITY

Quality care is extremely important for Defim Orsogril; in fact being UNI EN ISO 9001/2015 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.

“THE ONLY WAY TO DO GREAT WORK IS TO LOVE WHAT YOU DO”

- **ACTIVE COLLABORATION WITH THE CUSTOMERS TO IDENTIFY THE MOST SUITABLE TECHNICAL SOLUTIONS AND MATERIALS**
- **EXCELLENCE BEGINS WITH THE CHOICE OF PREMIUM AND SUSTAINABLE MATERIALS**
- **PRODUCTION OF EXCELLENCE, WITH MODULAR PLANTS DEVELOPED TO MEET CLIENTS' SPECIFIC NEEDS.**
- **METICULOUS QUALITY CHECKS AT EVERY STAGE TO OFFER ONLY THE VERY BEST**
- **PUNCTUAL RELIABILITY**
- **TECHNICAL SUPPORT FOR EVERY NEED**

CE marking
NR 0948-CPR-0287

STEEL AND STYLE

BEYOND STEEL

We are a company that goes beyond simple steel production.
In addition to industrial projects, we are dedicated to construction projects that combine solidity and aesthetic refinement.
With our claim ‘Steel and Style’, we combine the strength of steel with the beauty of design, distinguishing ourselves as a partner capable of offering solutions that are not only functional but also aesthetically pleasing. Our passion for innovation and elegance allows us to redefine the traditional idea of a steel manufacturer.

THE OFFER

SOLUTIONS

VERSATILITY FOR A MULTITUDE OF USES
ELECTROWELDED MESH

Defim Orsogril is a benchmark in the production of electrowelded mesh for industrial applications, with diverse solutions for every sector. The offer includes both standard electrowelded mesh (made from self-colour, galvanised or stainless steel wire) and custom-made mesh, which is increasingly in demand in the industrial and construction sectors.

Thanks to our state-of-the-art machinery, we guarantee flexibility and speed in meeting the customers' needs, efficiently handling both large productions via fully automated systems and small quantities with semi-automatic systems. We are a strategic partner for our customers, integrating into their production processes. We can process electrowelded wire mesh by bending, cutout and painting, making procurement faster and more streamline.

DESIGN AND FUNCTIONALITY
GRATING

We produce high quality and innovatively designed electrowelded gratings ideal for architectural applications and industrial plants, with a wide range of horizontal panels.

Whether standard or custom solutions for construction and industrial projects, the quality of the product and service is always guaranteed by a wealth of expertise and knowledge of the history of grating in Italy, and a continuous drive towards innovation – the hallmark of the Feralpi Group.

TRADITION AND NEW BOUNDARIES
FENCES

We are the global leader in the production of high-quality panel fencing, offering sturdy modular systems that combine design and functionality. As the only European manufacturer of wire and grating fencing, we guarantee the widest range of solutions available on the market, using advanced technologies that combine tradition and electronics and go above and beyond current safety standards.

Our fences, which play an essential part in both architectural and industrial projects, ensure a high level of protection while fitting harmoniously into their surroundings. Security, elegance, visual permeability, customisable colours and antique-effect finishes are just some of the salient features of a range that also extends to innovative COR-TEN steel solutions, including new options relating to louvered systems.

INNOVATIVE CONSTRUCTION
WALL CLADDING

Defim Orsogril is a benchmark in the production of state-of-the-art wall cladding designed to combine durability, design, functionality and sustainability.

We offer innovative solutions such as the louvered cladding of the Talia line, also in COR-TEN steel, and the unique curved sheet system of the Teti line. Defim Orsogril claddings enhance the aesthetics of new projects as well as responding to the growing demand for the redevelopment of buildings.

COR-TEN, A FRIEND OF NATURE
PAN™ LINE

We propose an exclusive solution for those who choose nature. PAN™ is the only high-strength, low-elongation COR-TEN steel wire that protects itself against atmospheric corrosion by forming a surface patina. The brown colouring conferred by time allows it to blend in fully on farms that make wine. In addition to the wire for vineyards, the PAN™ Line is completed by chain link rolls and pastoral PAN™ MESH rolls and the COR-TEN grafting stakes. The entire range is friendly to vineyards and nature.

VERSATILITY FOR A MULTITUDE OF USES

ELECTROWELDED MESH

Versatility, strength, and precision are the distinctive features of our electro-welded mesh. Thanks to cutting-edge production technologies and a high degree of customization, we offer standard and tailor-made solutions that can be perfectly adapted to a wide range of applications in the industrial and construction sectors.

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Defim Mesh®

STANDARD **P. 16**

Defim STD®
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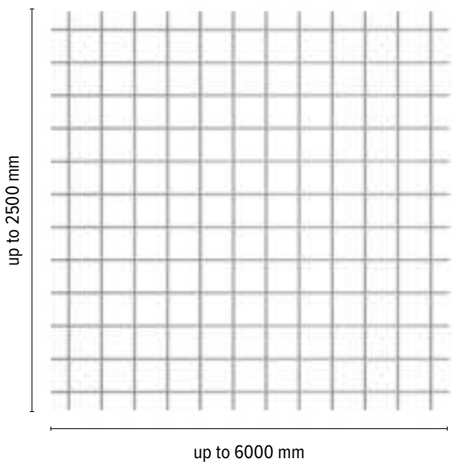
SPECIAL **P. 19**

Defim Pipe®



ELECTROWELDED BESPOKE MESH

DEFIM MESH®

Electrowelded mesh plays an increasingly crucial role in the industrial and construction sectors due to its versatility and countless applications. Defim Orsogril, with decades of experience and an excellent industrial structure supported by a highly qualified technical team, prepares precise solutions tailored to the exact and specific needs of each customer in a timely fashion.

APPLICATIONS

- Welded wire mesh for beds
- Welded wire mesh for fans
- Metal gabions
- Containers
- Animal cages
- Cable trays
- Plaster holder for frames
- Fences for overpasses
- Underlays and plasters
- Special steel structures
- Welded wire mesh for the food sector
- Machine guarding systems
- Fences in general

FINISHES

- Self-colour
- Hot-dip galvanised
- Galfan
- Stainless steel
- Powder coated
- Copper-washed

ADDITIONAL SERVICES

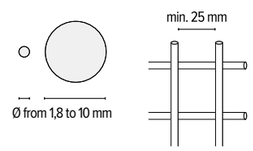
To complement our solutions, we have a department that specialises in automated post-production processes (such as bending, cutout and other operations). This approach allows us to integrate the customer's production process, and thereby act not just as a supplier but also as an industrial partner that can offer production solutions perfectly tailored to specific needs.

Example of bent mesh

DIMENSIONS AND CUSTOMIZATION

Wire
Different diameters available

Mesh
Minimum in frame 25 mm



THE DIFFERENT MESHES

The mesh sizes can be tailored in both directions, with up to 2 different wires lengthwise and 2 crosswise.

SIDE FINISHES

Finishes can be requested in relation to the type of use: with overhangs, trimmed, trimmed with inclined cut.

a. mesh panel with overhangs
b. flush mesh panel
c. inclined trimming cut

a.

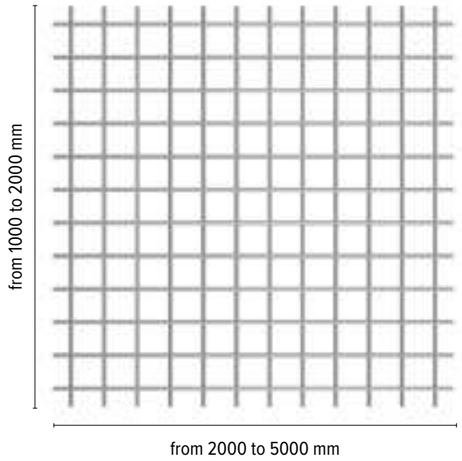
b.

c.

Mesh bending

Mesh bending automation

Bespoke mesh



ELECTROWELDED STANDARD MESH

DEFIM STD®

Standard production of raw, galvanised or stainless steel electrowelded mesh panels, with wires diameter from 3 to 6 mm, mesh in sizes from 25x25 to 100x100 mm and panel sizes up to 1600x5000 mm (for some models). Wide availability in stock for fast and reliable service.

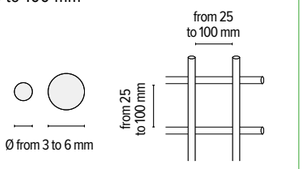
APPLICATIONS

- Steel framework
- Steel materials
- Construction materials
- Manufacturing industry
- Blacksmiths
- Metallurgy

FINISHES

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

Wire: Ø from 3 to 6 mm
Mesh: from 25 to 100 mm

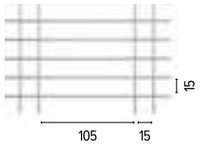


MESH SIZE		WIRE	PANEL DIMENSIONS			FINISH		
H	L	Ø	H	W	Weight			
mm	mm	mm	mm	mm	kg/m²	Raw (self-colour)	Pre-galvanized	AISI 304 stainless steel
25	25	3	1225	2000	5,60	●	●	
30	30	3	1000	2000	3,43	●		●
30	30	3	1200	2400	3,43	●	●	●
40	40	3	1000	2000	2,60	●		●
40	40	4	1000	2000	4,70	●		
40	40	4	1200	2400	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	●	●	

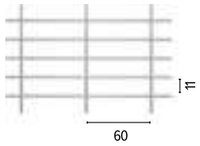
DEFIM™ SAFETY MESH

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.

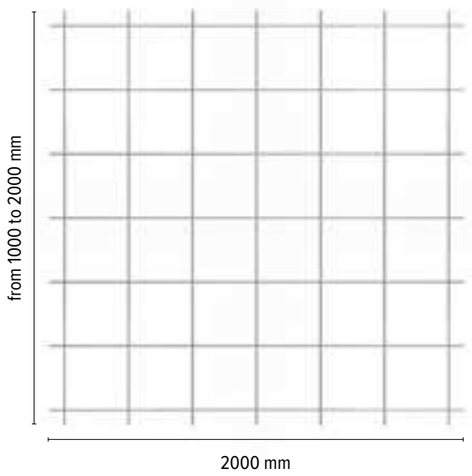


TEC safety wire mesh



Mesh RT safety wire mesh

MESH SIZE		WIRE	PANEL DIMENSIONS			FINISH		
H	L	Ø	H	W	Weight			
mm	mm	mm	mm	mm	kg/m²	Raw (self-colour)	Pre-galvanized	AISI 304 stainless steel
TEC		3	1000	2000	4,27			●
TEC		3	1240	2400	4,27	●	●	●
RT60	11	3	1200	2400	5,46	●	●	



ELECTROWELDED STANDARD MESH

ARMEDIL®

Armedil® is the anti-cracking grid designed for quick curing and drying concretes. It is available in two standard sizes (Armedil® and Armedil® Light) and more professional and technical ones with wires of 3 and 6 mm in diameter, to meet every need. Armedil® Ø1,8 mm: classic, robust anti-cracking mesh. Armedil® Light Ø1,5 mm: same quality, lighter and more competitive for large surfaces projects.

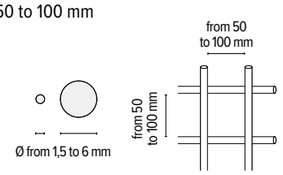
APPLICATIONS

- Concrete screeds
- Underlays
- Vertical plasters
- Heated floors

FORMATS

Other formats of anti-cracking mesh are also available: mesh 50x50 mm, wire Ø3 mm, dimensions 1000x2000 mm; mesh 100x100 mm, wire Ø3 mm, dimensions 1000x2000 mm; and mesh 100x100 mm, wire Ø6 mm, dimensions 1600x2000 mm, with galvanization certified according to UNI EN 10244-2.

Wire: from Ø1,5 to Ø6 mm
Mesh: from 50 to 100 mm

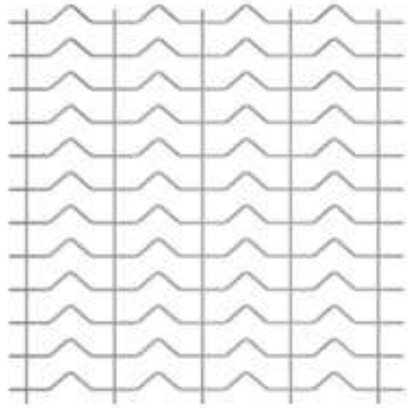


	MESH SIZE		WIRE	PANEL DIMENSIONS	
	H	L	Ø (nominal)	H	W
	mm	mm	mm	mm	mm
*	50	50	1,5	1000	2000
*	50	50	1,8	1000	2000
**	100	100	3	1000	2000
**	100	100	6	1600	2000

*nominal dimensions
**certified pre-galvanised wire / panel with overhangs

For heated floors

Example of installation



ELECTROWELDED SPECIAL MESH

DEFIM PIPE®

Defim Pipe® is a product specifically designed for the Oil & Gas market. The special shape of the welded wire mesh, which is produced in rolls, facilitates the adherence and clinging of the concrete used in the construction of subsea pipelines for the offshore transport of hydrocarbons and gas. The strong expertise of Defim Orsogril in the production of high-tech electrowelded wire meshes is also at service of this sector.

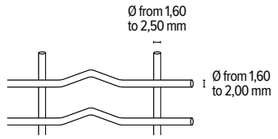
APPLICATIONS

- Offshore gas pipelines
- Offshore pipelines
- Offshore power lines

FINISHES

Galvanizing according to ASTM A 641/A 641/M.

Wire
- from Ø1,60 to Ø2,50 mm vert. round bar
- from Ø1,60 to Ø2,00 mm horiz. round bar



TYPE	WIRE		ROLL-DIMENSIONS	
-	Ø longitudinal	Ø cross wire	L	Weight
-	mm	mm	m	+/- 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.
It is manufactured according to ASTM A82-Ø2, ASTM A185-Ø2, ASTM A 641/A 641M.

Defim Pipe® in reels

DESIGN AND FUNCTIONALITY

GRATING

Tradition, innovation and attention to detail define our grating production. From architectural to industrial applications, we offer standard and customised solutions that combine functionality and aesthetics, expressing the best of Italian design and engineering.

SECTION INDEX

ELECTROWELDED POTISSIMUM **P. 22**

Potissimum® for residential applications
Potissimum® Industry

BARROTTO **P. 26**

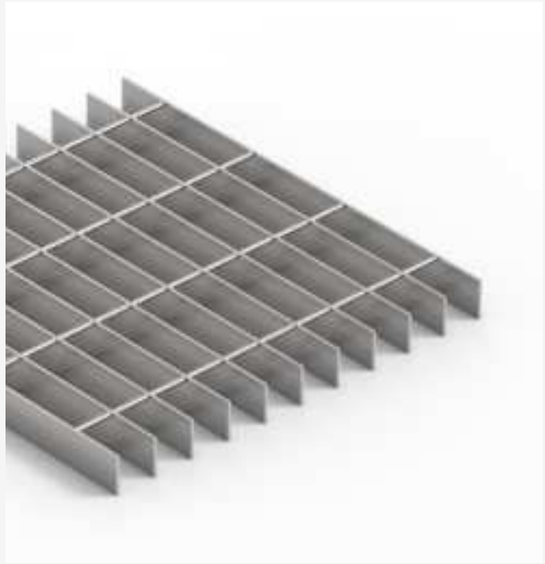
Barrotto Antiquum®

PRESS-LOCKED UTILIOR **P. 27**

Utilior®

STAIR TREADS **P. 28**

Standard stair treads®
Anti-vertigo system®



ELECTROWELDED POTISSIMUM

POTISSIMUM® FOR RESIDENTIAL APPLICATIONS

Potissimum® residential electrowelded steel grating is made with advanced production technology that combines exceptional strength with distinctive aesthetics. There is a large stock available to respond quickly to the needs of the market, and those of the construction industry in particular. Our Design Department stands out in the sector for its customer assistance. During the design phase, it prepares bespoke framed and shaped panels, from the simplest to the most complex, in order to help the customer find the most suitable and economical solution. Both the stocked Standard GEAs in 6100x1000 mm format and the bespoke finished material are CE marked and supplied with the relevant Protected Designation of Origin (PDO).

APPLICATIONS

- Floors
- Stairs
- Lightwells
- Water traps
- Paving
- Mezzanine floors

TECHNICAL SPECIFICATIONS

Material
- UNI EN 10025 S 235 JR steel

Coating
- EN ISO 1461 hot-dip galvanisation

Painting
- Colours according to RAL table

Accessories - p. 88
- Fixing clips

ITEM SPECIFICATIONS

Orsogril Potissimum® residential electrowelded grating – Bespoke framed electrowelded grating panels (bearing bar – mesh) | Mesh size mm: 11/15/22/25 x ... | Bearing bar mm: ... | Round transverse bar Ø mm: ... | Banding flat bar .... mm with continuous groove, electrowelded to the panel (for regular panels) | Weight kg/m^2: ... | Material: UNI EN 10025 S235JR steel | Finish: EN ISO 1461 hot-dip galvanisation | AGLAIA fixing clips for mesh size .... mm – bottom or top fixing | CE certificate (Ref. Factory Production Control Certificate 0948-CPR-0287).

TYPES AND DIMENSIONS

Mesh:	**Heel proof**	**Ball proof**	**Building**
Dimension:	15x76 mm	22x38 mm 22x76 mm	25x24 mm 25x76 mm

BEARING BAR		TRANSVERSE BAR		HEEL PROOF	BALL PROOF		BUILDING	
H	Th	L	No. bearing bars	67	47	47	41	41
mm	mm	mm	Mesh	15x76	22x38	22x76	25x24	25x76
			Weight	kg/m^2	kg/m^2		kg/m^2	
20	2	998		19,57	-	-	-	-
25	2	998		25,2	-	18,0	18,4	15,8
30	2	998		30,1	-	21,5	-	18,9
40	2	998		40,1	-	27,7**	-	25,0
50	2	998		48,82	-	-	-	-
25	3	999		38,1	-	26,9**	-	23,6
30	3	999		45,7	-	32,2*	-	28,2
40	3	999		61,0	-	42,4**	-	37,6*
50	3	999		76,2	-	-	-	46,9
60	3	999		92,4	-	-	-	57,1
70	3	999		107,8	-	-	-	66,5
80	3	999		123,2	-	-	-	75,9
40	4	1000		-	-	56,7	-	50,4
50	4	1000		-	-	72,0	-	63,0
60	4	1000		-	-	87,2	-	76,3
70	4	1000		-	-	101,8	-	89,0

GEA MAT SIZE 6100X1000 mm, UNFRAMED, SELF COLOURED

*Also available with serrated bearing bar
**Available only serrated

Weights (kg/m^2) are theoretical, nominals and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)
Attention: some types can only be produced on request for quantities to be defined.

ELECTROWELDED POTISSIMUM

POTISSIMUM® INDUSTRY

Potissimum® Industry is the electrowelded steel grating that, thanks to an advanced production process, is exceptionally strong but also highly versatile and suitable for use in disparate industrial sectors. Projects ranging from the simplest to the most complex can be customised with bespoke framed and shaped panels. The Design Department, a benchmark in the sector, assists the customer in the design phase to identify the most suitable and economic solution for his needs. Both the stocked Standard GEAs in 6100x1000 mm format and the cut-to-size material are CE marked and supplied with the relevant Protected Designation of Origin (PDO).

APPLICATIONS

- Floors
- Stairs
- Water traps
- Industrial Paving
- Mezzanine floors

TECHNICAL SPECIFICATIONS

Material
- UNI EN 10025 S 235 JR steel

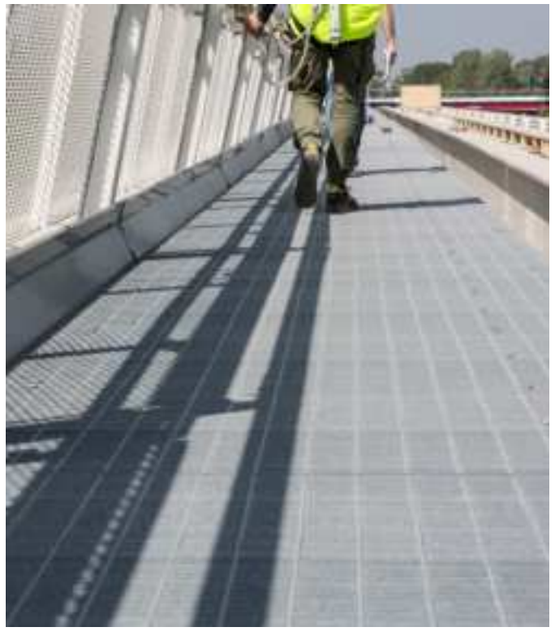
Coating
- EN ISO 1461 hot-dip galvanisation

Painting
- Colours according to RAL table

Accessories - p. 88
- Fixing clips

ITEM SPECIFICATIONS

Orsogril Potissimum® industrial electrowelded grating – Bespoke framed electrowelded grating panels (bearing bar – mesh) | Mesh size mm: 30/34 x ... | Bearing bar mm: ... | Twisted square transverse bar mm: ... | Banding flat bar .... mm with continuous groove, electrowelded to the panel (for regular panels) | Weight kg/m^2: ... | Material: UNI EN 10025 S235JR steel | Finish: EN ISO 1461 hot-dip galvanisation | AGLAIA fixing clips for mesh size .... mm – bottom or top fixing | CE certificate (Ref. Factory Production Control Certificate 0948-CPR-0287).



DETAILS AND DIMENSIONS

Dimension: 30x50 mm | 30x100 mm | 34x38 mm | 34x76 mm

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

BEARING BAR		TRANSVERSE BAR	No. bearing bars	34*	34*	30*	30*
H	Th	L	Mesh	30x50	30x100	34x38	34x76
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		21,0	19,8	19,6	18,0
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	-	-	-
30	5	1000		40,9	38,9**	-	-
32	5	1000		43,5	-	-	-

GEA MAT SIZE 6100X1000 mm, UNFRAMED, SELF COLOURED

*Twisted square transverse bar
*Also available with serrated bearing bar
**Available only serrated

Weights (kg/m^2) are theoretical, nominals and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)
Attention: some types can only be produced on request for quantities to be defined.

BARROTTO

BARROTTO ANTIQUUM®

Barrotto Antiquum® is the electro-welded grating with anti-slip bars and handcrafted finish, ideal for historic town centers. Available in the standard size 6100x1010 mm or custom-made, edged and shaped with dedicated technical support. All products are CE marked with the corresponding Declaration of Performance (DoP).

TECHNICAL SPECIFICATIONS

Material
- UNI EN 10025 S 235 JR steel

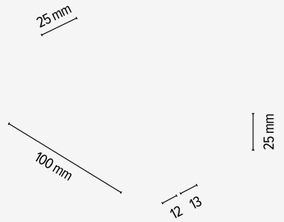
Coating
- EN ISO 1461 hot-dip galvanisation

Painting
- Colours according to RAL table

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

Weight
- Unframed semi-finished self-colour material 28,6 kg/m^2

Capacity load (kg)
- Class 1 - pedestrian load on maximum net span of 1300 mm



ITEM 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 25x3 mm | Weight kg/m^2: 34,9 (galvanized or painted) | Material: S235JR UNI EN 10025 steel | Finish: hot-dip galvanizing according to UNI EN ISO 1461

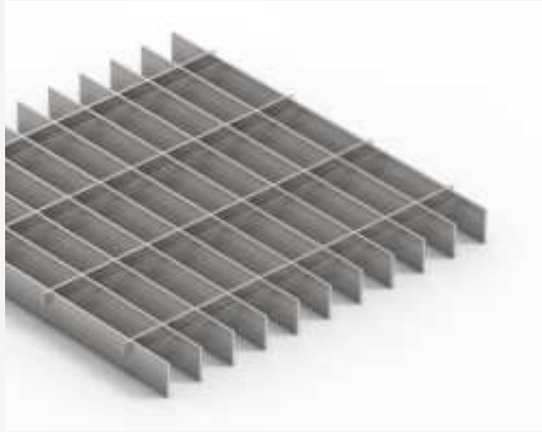
As an alternative:
Finish: micaceous grey RAL 223 polyester powder painting on hot-dip galvanizing material | AGLAIA fixing clip for 15 mm mesh - bottom fixing CE certified (Ref. Factory Manufacture Control Certificate 0948-CPR-0287)

APPLICATIONS

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

MESH		TRANSVERSE BAR	DIMENSIONS		RAW	GALVANIZED
A	B	Ø	mm		Weight	Weight
mm	mm	mm	mm		kg/m²	kg/m²
25	100	4	6100	1010	28,47	30,61
U 25x12x25x1,5						

Weights (kg/m^2) are theoretical, nominals and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)
Attention: some types can only be produced on request for quantities to be defined.



UTILIOR PRESS-LOCKED GRATING

UTILIOR®

Panels with edged and shaped profiles are also available, with the support of the technical office.

TECHNICAL SPECIFICATIONS

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

Coating
- Hot-dip galvanised according to UNI EN ISO 1461

Painting
- Colours according to RAL table

Accessories - p. 88
- Fixing clips

ITEM SPECIFICATIONS

Orsogril Utilior® press-locked grating – GP bespoke framed panels (bearing bar – mesh) | Mesh size mm: ... | Bearing bar mm: ... | Flat transverse bar mm: ... | Edging frame ... | Weight kg/m^2: ... | Material: UNI EN 10025 S235JR steel | Finish: EN ISO 1461 hot-dip galvanisation | AGLAIA fixing clips for mesh size ... mm – bottom or top fixing.

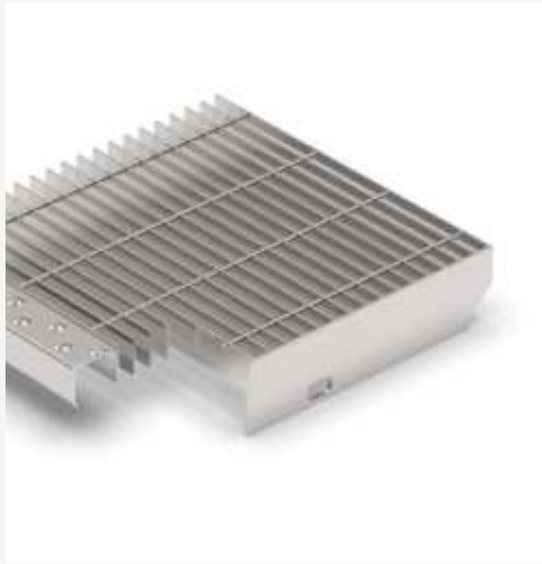
APPLICATIONS

- Lightwells
- Paving
- Floors
- Stairs
- Water traps
- Mezzanine floors

BEARING BAR		TRANSVERSE BAR		MESH AxB											
H	Th	H	Th	11x66	15x66	17x66	22x22	22x66	25x66	33x33	33x66	44x11	66x11	66x22	66x33
mm	mm	mm	mm	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²
20	2	9	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			42,0	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	38,0	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	27,0	19,5	17,1
40	2			65,6	49,8	44,5	41,0	36,0	32,7	28,6	26,1	34,0	28,0	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	23,0	20,5
50	2			81,3	61,6	55,0	40,4	44,4	40,2	34,5	32,0	38,8	32,2	24,7	22,2
25	3			59,6	45,0	40,2	37,3	32,3	29,2	25,7	23,2	31,4	26,6	19,1	16,6
30	3			71,0	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	62,0	55,2	49,1	44,1	39,9	33,9	31,4	38,0	31,2	23,7	21,2
40	3			93,8	70,5	62,7	55,1	50,1	45,2	38,0	35,5	41,2	33,5	26,0	23,5
45	3			105,1	78,9	70,2	61,0	56,0	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	67,0	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	104,0	98,0	88,3	72,0	69,0	70,4	54,8	45,9	42,9
90	3			208,0	155,7	183,3	115,9	109,9	99,0	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	53,0	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	55,0	49,5	68,3	58,0	41,3	35,7
50	4			157,1	118,4	105,5	95,7	84,6	76,5	66,0	60,4	77,0	64,1	47,1	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	54,0
80	4	15	3	247,7	185,9	165,3	143,0	131,8	119,0	98,8	93,2	103,0	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	78,0	72,4
110	4			338,4	253,4	225,1	190,3	179,1	161,4	131,6	126,0	129,1	100,8	84,1	78,5
120	4			368,6	276,0	245,1	206,0	194,9	175,6	142,5	137,0	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	120,0	105,3	95,3	82,7	75,3	98,1	82,1	60,1	52,7
60	5			232,7	175,2	156,0	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	69,7
80	5	15	4	307,6	231,0	205,4	178,6	163,9	148,0	123,4	116,0	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	203,0	183,1	150,5	143,2	152,0	120,1	98,0	90,7
110	5			420,0	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

PRESS-LOCKED GRATING WEIGHTS FRAMED GALVANISED MATERIAL

The weights (kg/m^2) are theoretical, nominals and subject to the dimensional tolerances of raw materials (Standard UNI 11002, p. 16, point 5.3, Table 1).
Attention: some types can only be produced on request for quantities to be defined.



STAIR TREADS

STANDARD STAIR TREADS®

The grating stair tread is mainly used for external and emergency staircases, where its load-bearing characteristics and empty/full ratio ensures the rapid dispersion of fumes. All stair treads made by Defim Orsogril are CE marked and supplied with the relevant Protected Designation of Origin (PDO).

TECHNICAL SPECIFICATIONS

Material
- UNI EN 10025 S 235 JR steel

Coating
- EN ISO 1461 hot-dip galvanisation

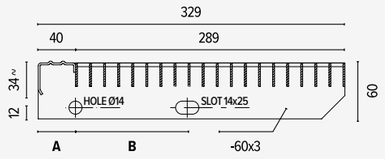
ITEM SPECIFICATIONS

Electrowelded Orsogril grating stair treads to bolt – STD | Mesh size mm: ... | Bearing bar mm: ... | Transverse bar mm: ... | Dimensions mm: ... | Grating panel provided with a special front profile called “nosing” and two perforated side plates for bolting it to the iron stringers of the staircase | Weight kg/each: ... | Material: UNI EN 10025 S235JR steel | Finish: EN ISO 1461 hot-dip galvanisation

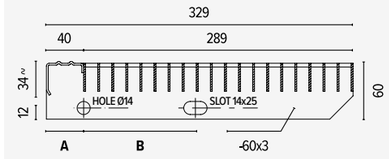
APPLICATIONS

- Emergency stairs
- Service stairs

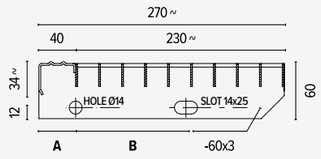
15x76 - 25x2



15x76 - 30x2



25x76 - 25x2

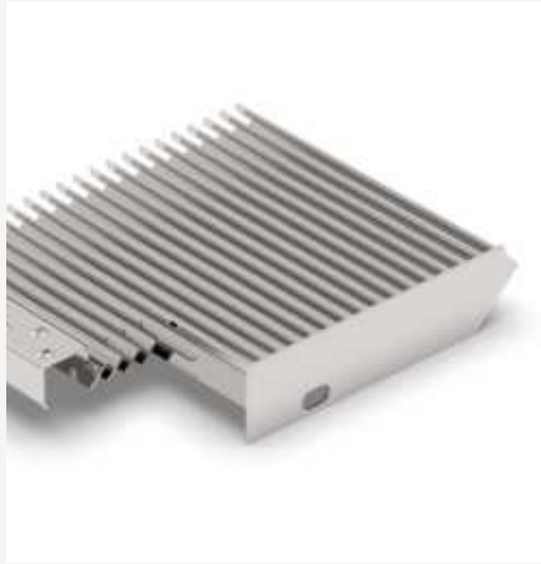


DESCRIPTION	MESH H	MESH L	BEARING BAR H	BEARING BAR Th	DIMENSIONS H	DIMENSIONS L	DIMENSIONS Weight	UNI-STANDARD DRILLING A	UNI-STANDARD DRILLING B
	mm	mm	mm	mm	mm	mm	kg/ea	mm	mm
Slip-resistance nosing with profiled upwards facing holes *	15	76	25	2	1000	329	11,0	40	120
Slip-resistance nosing with profiled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

EXODUS® STAIR TREADS FOR EMERGENCY STAIRS (HEEL PROOF MESH, TO BOLT)

*According to Ministerial Decree no. 236 of 14 June 1989
**According to Standard UNI 1100-2, test report of the Politecnico di Milano (P.54/2 – 8.11.2)

Weights (kg/m²) are theoretical, nominals and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)
Attention: some types can only be produced on request for quantities to be defined.



STAIR TREADS

ANTI-VERTIGO SYSTEM®

No panic Antivertigo system® is an exclusive Defim Orsogril solution: thanks to the shaped profile, it guarantees complete screening without compromising the air permeability of the grating. The stair tread is compliant with current anti-slip regulations. The same type of profile is applicable to landings and walking surfaces.

TECHNICAL SPECIFICATIONS

Material
- UNI EN 10025 S 235 JR steel

Coating
- EN ISO 1461 hot-dip galvanisation

Weight
- 18,3 kg each, galvanised

Load
- Stair tread load on maximum span of 1200 mm

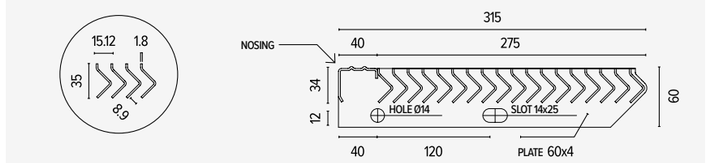
ITEM SPECIFICATIONS

Anti-vertigo® Orsogril stair treads to bolt | Mesh size mm: 15 | Bearing bar mm: special V profile | Transverse bar mm: Ø 6 | Dimensions mm: 1200x315 | Special grating panel provided with a special front profile called “nosing” and two perforated side plates for bolting it to the iron stringers of the staircase. | Weight kg/each: 18,3 kg galvanised | Material: UNI EN 10025 S235JR steel | Finish: EN ISO 1461 hot-dip galvanisation.

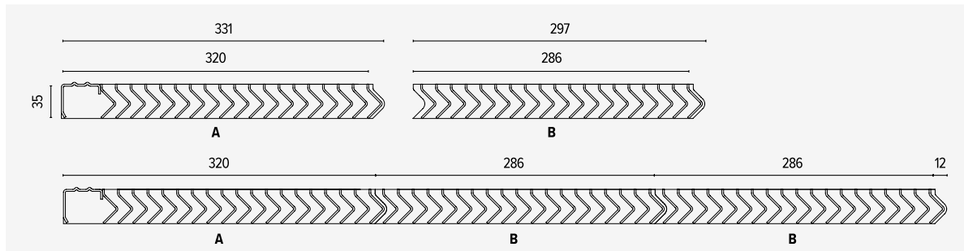
APPLICATIONS

- Lightwells
- Paving
- Floors
- Stairs
- Water traps
- Mezzanine floors

"NO PANIC" Step



Landing



THE LANDING - The system for the composition of landings involves the use of an initial panel with nosing, to which a variable number of interlocking panels are added until the desired length is reached. The panels are joined together with a dovetail joint between the frames. This solution allows for visual continuity between the panels, effectively hiding the joints.

A_ INITIAL PANEL WITH NOSING DIMENSIONS				B_ STANDARD PANEL DIMENSIONS			
Dimensions		Weight		Dimensions		Weight	
W	D	Self-colour	Galvanised	W	D	Self-colour	Galvanised
mm	mm	kg/ea	kg/ea	mm	mm	kg/ea	kg/ea
1200	320	16,8	18,3	1200	286	15,2	16,2

Weights (kg/m²) are theoretical, nominals and subject to dimensional tolerances of raw materials (page 16 of UNI 11002, Point 5.3, Prospect 1)
Attention: some types can only be produced on request for quantities to be defined.

TRADITION AND NEW BOUNDARIES

FENCES

Reliable, long-lasting solutions with strong aesthetic appeal.
Our wire and mesh fencing systems combine functionality with design to meet the needs of safety and architectural integration in residential, industrial, and urban environments. A comprehensive, fully customisable range, born of ongoing innovation.

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Recintha® Stadium

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Britosterope®

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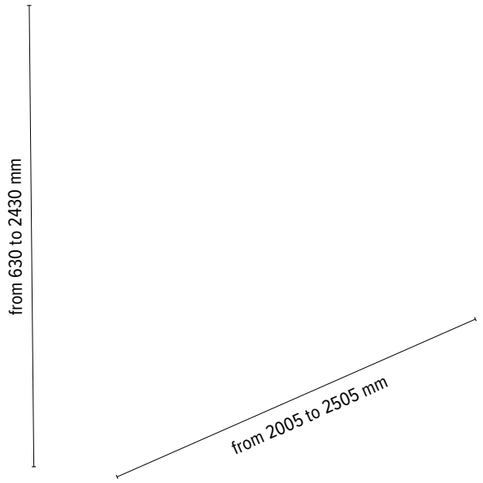
LOCKING SYSTEMS **P. 66**

Gates

ALARM SYSTEMS **P. 68**

Macs Fences line



WIRE FENCE

RECINTHA® N/L

Elegant and lightweight, Recintha® N/L fencing is formed of “V” shaped panels that gives a pleasing appearance to the perimeter system of the property. Thanks to its modular structure and patented joint system, the fencing is especially strong, highly adaptable and quick and easy to assemble: qualities that make it particularly suitable for enclosing large areas. Recintha® N/L is available in the classic version with a 60x60 mm square post or with a 40 mm diameter round post. Thanks to the wide choice of colours available on request, the fencing can be adapted to different environments, creating a perfect balance between functionality and visual appeal.

MACS FENCES ALARM SYSTEMS - P. 68

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 50x200 mm
- Round bar Ø5 mm

Material
- EN 10025 S235JR steel galvanised according to EN 10244-2

Coating
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 90
- MP universal clamp for square post (International Patent)
- Crab-type clamp for round post

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATION

Electrowelded mesh panels made of 5 mm nominal diameter steel rods with horizontal reinforcement ribs. Mesh size 50x200 mm. See table below for the width and height of the panel. | Centre-to-centre distances: square post 2010/2065 and 2510/2565 mm; round post 2015/2045 and 2515/2545 mm. Installation with universal MP or crab-type clips.

APPLICATIONS

- Industrial construction
- Residential centres
- Villas
- Public buildings
- Photovoltaic installations

Accessories P. 88
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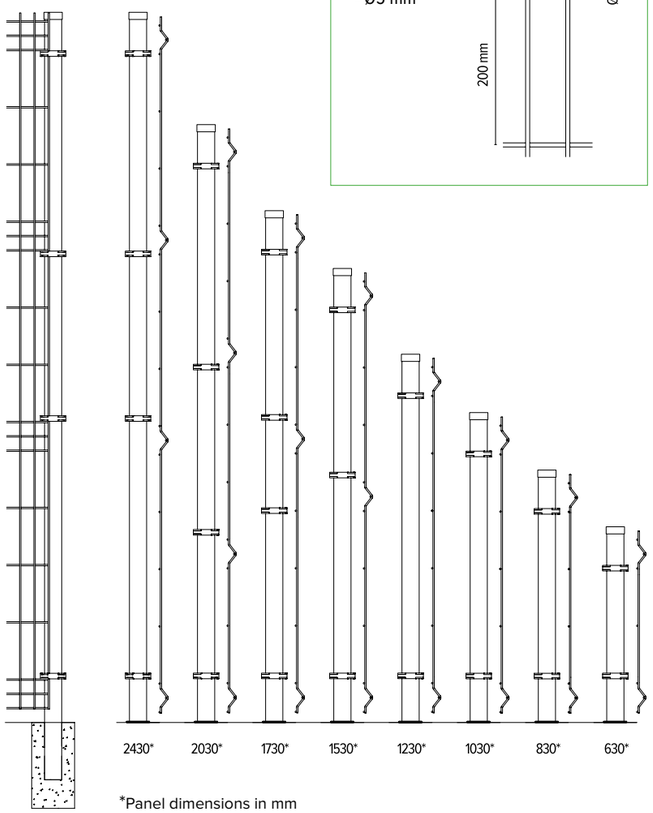
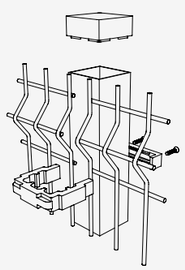
FENCES POSTS AND SYSTEMS

Mesh
- 50x200 mm
- Ø5 mm

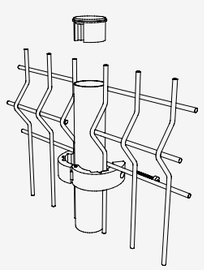


*Panel dimensions in mm

Base Plate
150x80x4 mm
4 holes Ø10,5 mm



Installation <u>type A:</u>
<u>panel facing the post</u>
- 60x60 mm square post

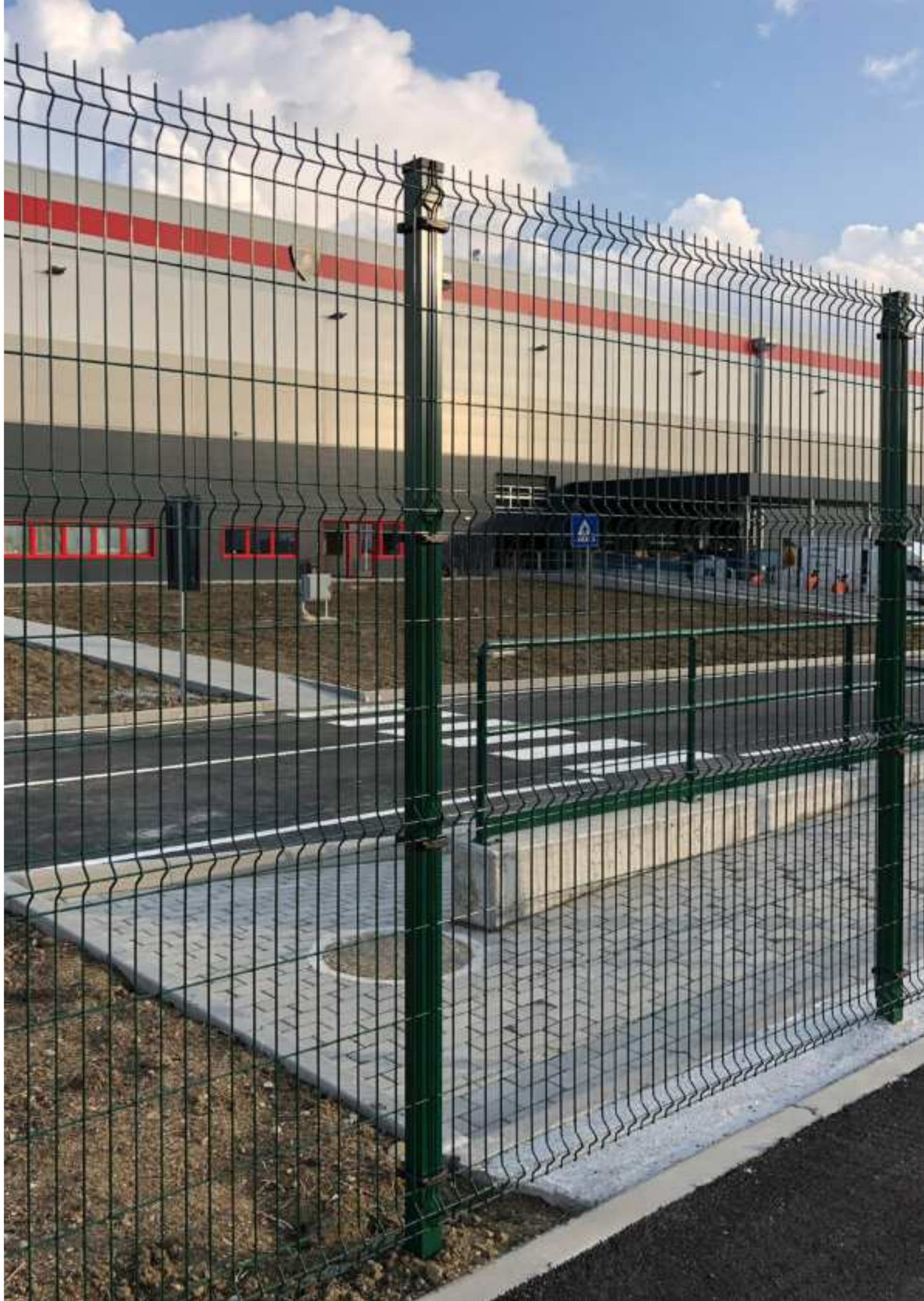


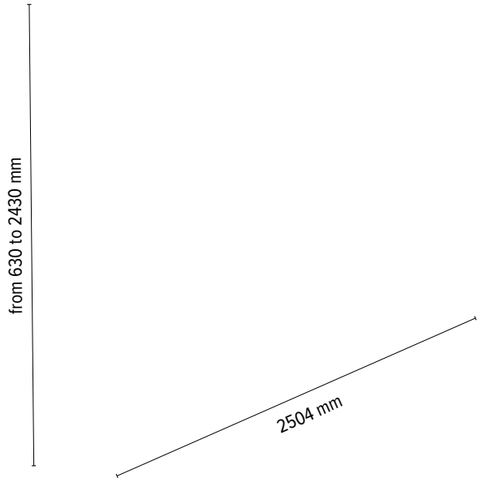
Installation <u>type B:</u>
<u>panel between posts</u>
- Ø40 mm round post

RECINTHA® N/L - TECHNICAL TABLE

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Tube section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea	mm	kg/ea
830	2005	7,4	4,4	60x60	2	1100	2,4	900	2,4
				Ø 40		1100	1,7	900	1,8
	2505	9,1	4,4	60x60		1100	2,4	900	2,4
				Ø 40		1100	1,7	900	1,8
1030	2005	8,8	4,2	60x60	2	1300	2,9	1100	2,8
				Ø 40		1300	2,0	1100	2,1
	2505	10,9	4,2	60x60		1300	2,9	1100	2,8
				Ø 40		1300	2,0	1100	2,1
1230	2005	10,2	4,1	60x60	2	1500	3,3	1300	3,3
				Ø 40		1500	2,3	1300	2,4
	2505	12,7	4,1	60x60		1500	3,3	1300	3,3
				Ø 40		1500	2,3	1300	2,4
1530	2005	13,5	4,4	60x60	3	1800	4,0	1600	3,9
				Ø 40		1800	2,8	1600	2,8
	2505	16,8	4,4	60x60		1800	4,0	1600	3,9
				Ø 40		1800	2,8	1600	2,8
1730	2005	14,4	4,2	60x60	4	2000	4,4	1800	4,4
				Ø 40		2000	3,1	1800	3,2
	2505	17,9	4,1	60x60		2000	4,4	1800	4,4
2030	2005	17,1	4,2	60x60	4	2300	5,1	2100	5,0
				Ø 40		2300	3,5	2100	3,6
	2505	21,3	4,2	60x60		2300	5,1	2100	5,0
2430	2005	20,0	4,1	60x60	4	2700	6,0	-	-
	2505	24,8	4,1	60x60		2700	6,0	-	-

*Nominal posts' height





WIRE FENCE

RECINTHA® N/L YOUNG

Recintha® N/L Young maintains the design of the base model, with panels enriched with V-shaped panels (2500 mm centre-to-centre distance). It is available with 60x60 mm square posts or 40 mm diameter round posts, in RAL 6005 green.

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 59,5x200 mm
- Vertical round bar Ø4 mm
- Horizontal round bar Ø5 mm

Material
- EN 10025 S235JR steel galvanised according to EN 10244-2

Coating
- Polyester coating

Colours
- RAL 6005 green

Fixing system - P. 92
- MP universal clamp for square post (International Patent)
- Crab-type clamp for round post

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATIONS

Electrowelded mesh panels made of 4 mm nominal Ø vertical steel rods with 5 mm Ø horizontal reinforcement ribs. Mesh size 59,5x200 mm. See table below for the width and height of the panel. Centre-to-centre distances: square post 2510/2565 mm; round post 2515/2545 mm. Installation with universal MP or crab-type clips.

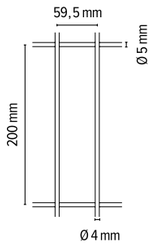
MACS FENCES ALARM SYSTEMS - P. 68

APPLICATIONS

- Industrial construction
- Residential centres
- Villas
- Public buildings
- Photovoltaic installations

Accessories P. 88

Mesh
- 59,5x200 mm
- Ø5 mm horizontal round bar
- Ø4 mm vertical round bar



60x60 mm Square Post

Ø40 mm Round Post

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Tube section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea	mm	kg/ea
830	2504	9,1	4,4	60x60	2	1100	2,4	900	2,4
				Ø 40		1100	1,7	900	1,8
1030	2504	10,9	4,2	60x60	2	1300	2,9	1100	2,8
				Ø 40		1300	2,0	1100	2,1
1230	2504	12,7	4,1	60x60	2	1500	3,3	1300	3,3
				Ø 40		1500	2,3	1300	2,4
1530	2504	16,8	4,4	60x60	3	1800	4,0	1600	3,9
				Ø 40		1800	2,8	1600	2,8
1730	2504	17,9	4,1	60x60	4	2000	4,4	1800	4,4
2030	2504	21,3	4,2	60x60	4	2300	5,1	2100	5,0
2430	2504	22,5	3,7	60x60	4	2700	6,0	-	-

*Nominal posts' height

WIRE FENCE

RECINTHA® P.G.

Recintha® P.G. maintains the design of the N/L model and is a modular system with a top handrail that covers sharp edges and protruding surfaces, making it suitable for playgrounds and public spaces.

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 50x200 mm
- Round bar Ø5 mm
- Tubular handrail Ø40 mm

Material
- EN 10025 S235JR steel galvanised according to EN 10244-2

Coating
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - P. 92
- MP universal clamp for square post (International Patent)
- Crab-type clamp for round post

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATIONS

Modular panels made electrowelded mesh and Ø5 mm steel rods. Mesh size 50x200 mm, with no sharp edges, topped by a 38 mm diameter tubular handrail with polyamide curved clips and a CF special joint without edges. Square and round posts with universal Defim MP and crab-type clips. For the width and height of the modules, see the tables. Post centre distance: 2530/2565 mm with square post; 2015/2045 mm with round post.

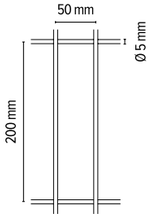
MACS FENCES ALARM SYSTEMS - P. 68

APPLICATIONS

- Playgrounds
- Public gardens
- Recreational areas
- Cycle paths
- School areas
- Tram lines

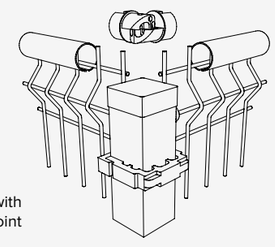
Accessories P. 88

Mesh
- 50x200 mm
- Ø5 mm



60x60 mm Square Post

Ø40 mm Round Post



Corner installation with articulated joint

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Tube section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea	mm	kg/ea
830	2005	7,4	4,4	60x60	2	1100	2,4	900	2,4
				Ø 40		1100	1,7	900	1,8
1030	2005	8,8	4,2	60x60	2	1300	2,9	1100	2,8
				Ø 40		1300	2,0	1100	2,1
1230	2005	10,2	4,1	60x60	2	1500	3,3	1300	3,3
				Ø 40		1500	2,3	1300	2,4
1530	2005	13,5	4,4	60x60	3	1800	4,0	1600	3,9
				Ø 40		1800	2,8	1600	2,8

*Nominal posts' height

WIRE FENCE

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.

MACS FENCES ALARM SYSTEMS - P. 68

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 50x200 mm
- Double horizontal round bars Ø8 mm, vertical round bar Ø6 mm

Material
- UNI EN 10025 S235JR galvanised steel

Coating
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 92
- Universal MP clip
- Plate with anti-theft bolts (Omega post)

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATION

High-resistance type 202 fencing made of electrowelded mesh panels, 50x200 mm mesh, with double 8 mm horizontal and 6 mm vertical wires, mounted on a symmetrical Omega profile post, with a cover plate and stainless steel anti-theft bolts. Heat-resistant polyester powder coating. Post centre distance: 2540 mm with Omega post; 2510 mm with square post.

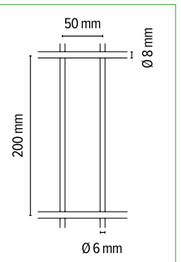
APPLICATIONS

- Industrial construction
- Residential centres
- Parking areas
- Airports
- Military sites

Accessories P. 88
Macs Fences System P. 68

DIMENSIONS

Mesh
- 50x200 mm
- Ø8 mm horizontal round bar
- Ø6 mm vertical round bar

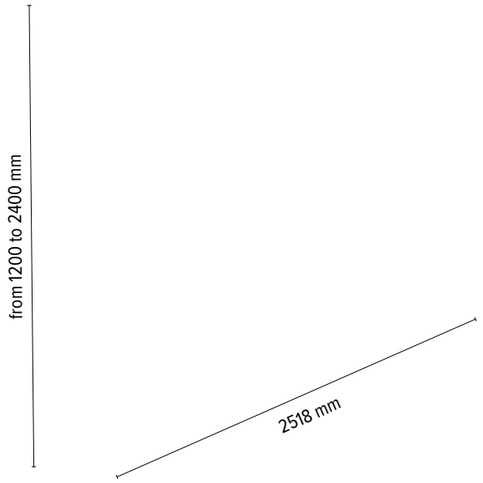


60x60 mm
Square post

60x40x25 mm
120x60x30 mm
Omega post

PANEL				POST			To be set in concrete		On base plate	
H	L	Weight		Omega section	Square section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	mm	no.	mm	kg/ea	mm	kg/ea
1030	2510	22,5	8,7	60x40x25		12	1500	9,5	1100	8,5
					60x60	3	1300	3,8	1100	3,6
1230	2510	26,9	8,7	60x40x25		12	1700	11,4	1300	9,8
					60x60	3	1500	4,4	1300	4,2
1430	2510	31,2	8,7	60x40x25		12	1900	12,9	1500	11,3
					60x60	3	1700	5,0	1500	4,8
1630	2510	35,6	8,7	60x40x25		16	2100	14,3	1700	13,7
					60x60	4	1900	5,6	1700	5,4
1830	2510	40	8,7	60x40x25		16	2400	16,3	1900	15,2
					60x60	4	2100	6,2	1900	6,0
2030	2510	44,3	8,7	60x40x25		16	2600	17,8	2100	16,7
					60x60	4	2300	6,8	2100	6,6
2230	2510	48,7	8,7	120x60x30		20	2800	31,3	2300	23,8
2430	2510	53,1	8,7	120x60x30		20	3000	33,7	2500	25,4

*Nominal posts' height
Omega posts' weight including front bar



WIRE FENCE

RECINTHA® SAFETY

Recintha® Safety is a high-security fencing system, designed to be impassable thanks to its anti-climbing features and resistance to shears. The structure ensures maximum visibility, ideal for integration with video surveillance systems. The fixing system, with an Omega post and anti-theft stainless steel bolts, enhances its protection. Optional crossbars are available to increase its rigidity. In the Safety MACS version, developed with TSec, it integrates advanced technology for smart perimeter security.

MACS FENCES ALARM SYSTEMS - P. 68

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 76,2x12,7 mm
- Round bar Ø4 mm

Material
- EN 10025 S235JR steel galvanised according to EN 10244-2
- 95% Zn – to 5% Al euthectic alloy wire.

Coating
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 92
- Plate with anti-theft bolts
- Mesh clips with anti-theft bolts

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATION

Electrowelded mesh panels made of 4 mm zinc aluminised steel rods. Mesh size 76,2x12,7 mm. See table below for the width and height of the panel. Symmetrical Omega profile posts with 90x4 mm and 120x4 mm closing plate. Stainless steel cup head square neck fixing nuts and safety self-cutting head nuts. Post centre distance: 2550 mm with Omega section 60x40x25x3 mm and 2580 mm with Omega section 120x60x30x3 mm. Heat-resistant polyester powder coating.

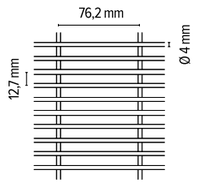
APPLICATIONS

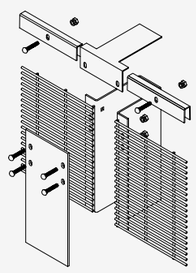
- Residential areas
- Industrial areas
- Commercial areas
- Railway lines
- Military sites
- Telecommunications equipment
- Maximum security fences
- Customs areas and airports
- Boundary lines

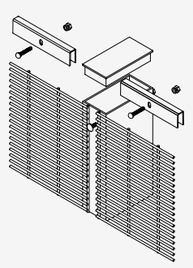
Accessories P. 88
Macs Fences System P. 68

DIMENSIONS AND SYSTEMS

Mesh
- 76,2x12,7 mm
- Ø4 mm




Omega
post installation


Rectangular
post installation

Standard fixing

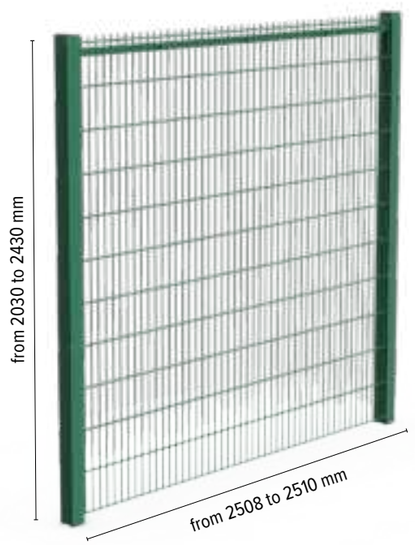
PANEL				POST		To be set in concrete	
H	L	Weight		Omega section	Fixing points	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea
1400	2518	30,9	8,5	60x40x25	16	1900	12,9
1600	2518	35,3	8,5	60x40x25	16	2100	14,3
1800	2518	38,8	8,5	60x40x25	16	2400	16,3
2000	2518	41,6	8,5	60x40x25	16	2600	17,8
2200	2518	45,8	8,5	120x60x30	20	2800	31,3
2400	2518	50,4	8,5	120x60x30	24	3000	33,7

Mesh clip fixing

PANEL				POST		To be set in concrete	
H	L	Weight		Omega section	Fixing points	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea
1400	2518	30,9	8,5	80x60x3	3	1900	11,6
1600	2518	35,3	8,5	80x60x3	4	2100	12,9
1800	2518	38,8	8,5	80x60x3	4	2400	14,7
2000	2518	41,6	8,5	80x60x3	4	2600	15,9
2200	2518	45,8	8,5	120x60x30	5	2800	15,1
2400	2518	50,4	8,5	120x60x30	6	3000	16,2

*Nominal posts' height
Omega posts' weight including front bar

Recintha® Safety post on base plate available on request



WIRE FENCE

RECINTHA® STADIUM

Recintha® Stadium is an electrowelded mesh stadium fencing compliant with the UNI EN 13200 standard. Robust and safe, it guarantees excellent visibility for spectators and a well-finished aesthetic thanks to the post system. It is available in three versions with different heights to meet the needs of the various areas of the sports facility: model RS1 with a height of 2230 mm, model RS2 with a height of 2430 mm and model RS3 with a height of 2230 mm plus 630 mm of cranked top.

APPLICATIONS

- Football pitches
- Sports centres
- Athletics grounds
- Sports facilities
- Horse race tracks
- Car race tracks

Accessories P. 88

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 50x200 mm
- Double horiz. round bars Ø8 mm, vert. round bar Ø6 mm

Material
- UNI EN 10025 S235JR galvanised steel

Coating
- Polyester coating

Colours
- Standard RAL 6005 colours, other RAL colours available on request

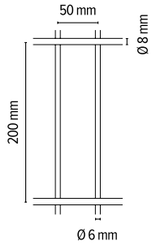
Gates
- Safety gates made in accordance with current regulations on space separation and safety in playgrounds and sports facilities

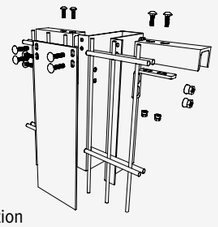
PRODUCT SPECIFICATION

Recintha® Stadium fencing is made of electrowelded mesh panels with steel rods and double 8 mm wire and 6 mm vertical ones with 50x200 mesh, mounted on Omega profile posts, secured with stainless steel anti-theft bolts and closing plate, all in accordance with standard UNI EN 13200 on sports grounds partitions. Hot-dip galvanised according to UNI EN ISO 1461 and painted with polyester thermosetting powders. Centre distance between posts 2570 mm.

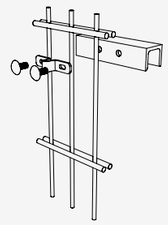
DIMENSIONS AND SYSTEMS

Mesh
- 50x200 mm
- Ø8 mm horizontal round bar
- Ø6 mm vertical round bar





Omega post installation

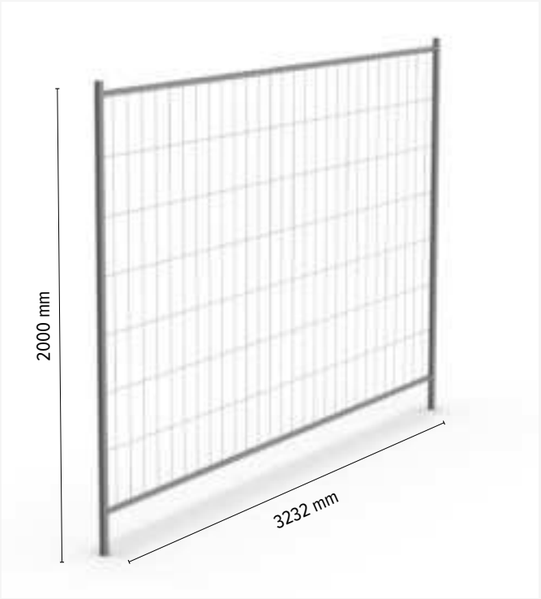


Horizontal railing “U” section

PANEL				POST		To be set in concrete	
H	L	Weight		Omega section	Fixing points	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea
2230	2508	48,7	8,7	120X60X30	16	3000	43,9
2430	2508	53,1	8,7	120X60X30	20	3000	44,7
2230+630	2510	65,8	8,7	120X60X30	24	3000+650	49,0

*Nominal posts’ height
Omega posts’ weight including front bar
Recintha® Stadium post on base plate available on request

DEFENDER HD PLUS



It's an ideal temporary fence for construction sites and events, with a strong and durable fixing system. The 3232 mm length makes it easy to transport. It complies with EEC Directive 92/57 and Legislative Decrees 494/96 and 528/99.

PRODUCT SPECIFICATION

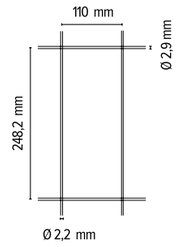
The Defender HD PLUS fencing for the temporary securing of sites consists of a pre-galvanised tubular frame with 40 mm vertical and 28 mm horizontal profiles. The mesh, lightly welded to the frame to avoid potential injuries, consists of horizontal wires with a diameter of 2,9 mm placed at a centre distance of 248,2 mm and vertical wires with a diameter of 2,2 mm at a centre distance of 110 mm, galvanised in accordance with UNI EN 10244-2. The concrete base measures 600x235x130 and has 8 holes for housing the panel support profile.

APPLICATIONS

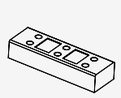
- Construction sites
- Rapid storage
- Areas of work in progress
- Sports events and events in general
- Set-ups

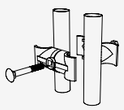
Accessories P. 88

Mesh
- 110x248,2 mm
- Ø2,9 mm horizontal wire
- Ø2,2 mm vertical wire



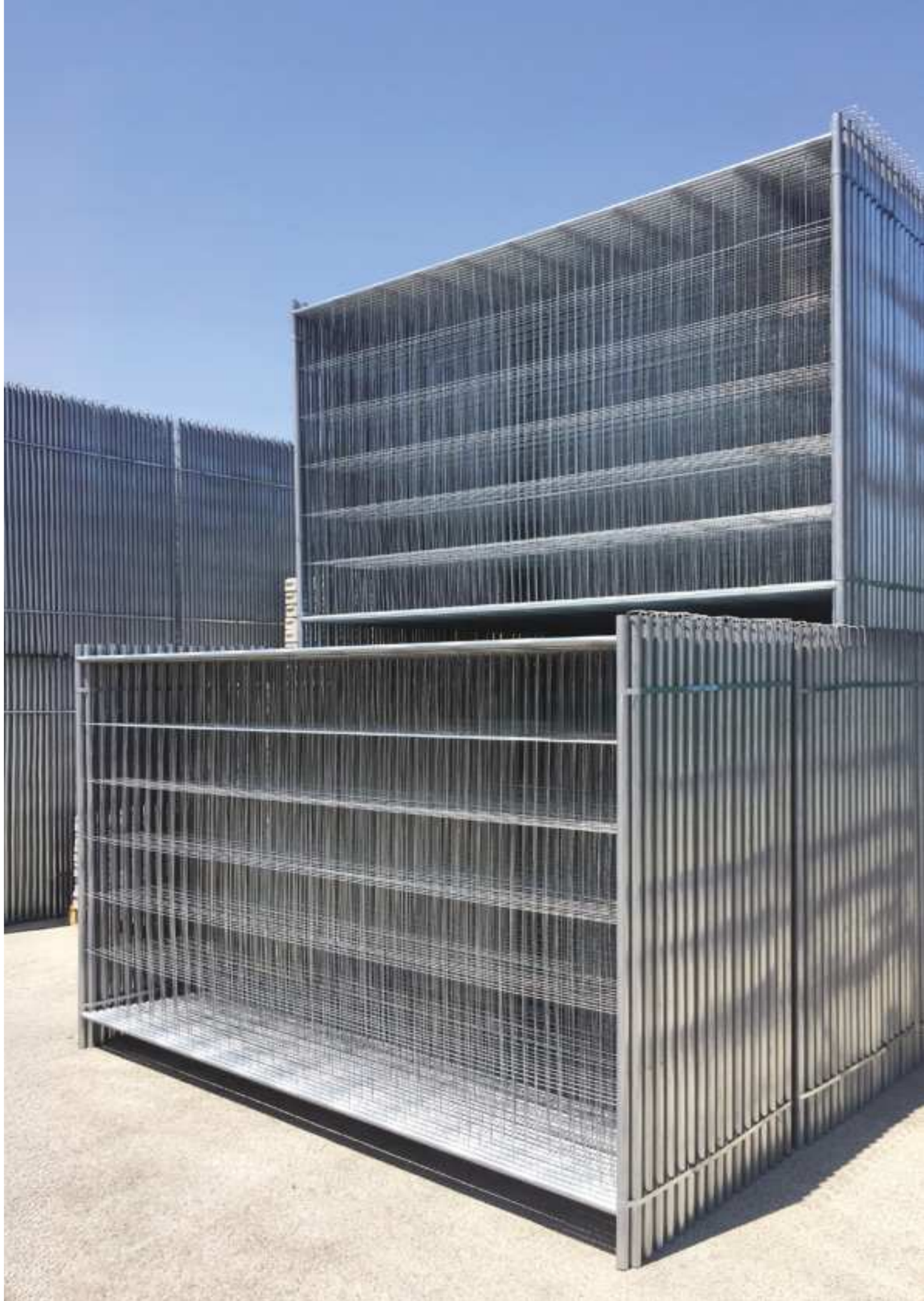
Tube Ø40+28 mm


CLS & ABS bases


Security joints

Supporting brace

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



MOBILE FENCES

DEFENDER PEOPLE

Defender People is a fence designed for temporary events, born from experience in construction site safety. It is easy to install and offers wide visibility thanks to its tubular panels, ensuring safety in recreational and sporting contexts.

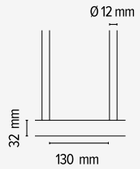
PRODUCT SPECIFICATION

Mobile barriers, measuring 1100 mm in height and 2500 mm in width with Ø32 mm pre-galvanised tubular structure without edges; Ø12 mm welded tube panels with 130 mm centre distance. Installation with removable tubular shaped feet. Panel equipped with two welded hooks for sequential joining.

APPLICATIONS

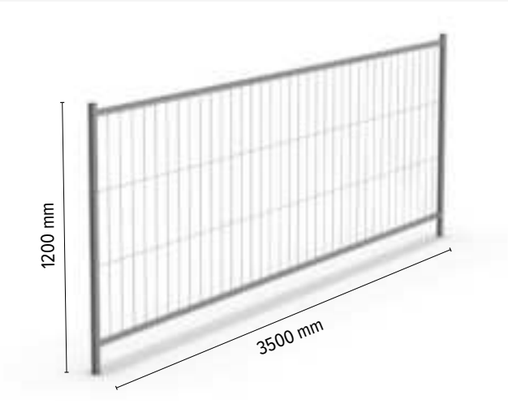
- Sports events and events in general
- Set-ups
- Areas of work in progress

Tubes
- Ø32 mm tube frame
- Ø12 mm tube panel frame vert.



PANEL		MESH SIZE	TUBE PANEL	TUBE FRAME
H	L	Tube centre distance	Ø	Ø
mm	mm	mm	mm	mm
1100	2500	130	12	12

Accessories P. 88



MOBILE FENCES

DEFENDER MARATHON

Derived from the Defender HD, this fence is ideal for construction sites, work areas, and events. With a height of 1200 mm, it ensures visibility and quick installation.

PRODUCT SPECIFICATION

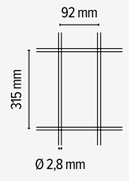
Low mobile fencing for construction sites, measuring 1200 mm in height and 3480 mm in width, with pre-galvanised tubular structure with four vertical 40 mm diameter tubes and 30 mm diameter horizontal tubes complete with pre-galvanised mesh panels measuring 315x92 mm, with 2,8 mm wire and supplied with concrete blocks with or without ABS coating for support.

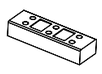
APPLICATIONS

- Construction sites
- Areas of work in progress
- Set-ups
- Sports events and events in general

Mesh
- 92x315 mm
- Ø2,8 mm

Tubes
- Ø30 mm horiz.
- Ø40 mm vert.



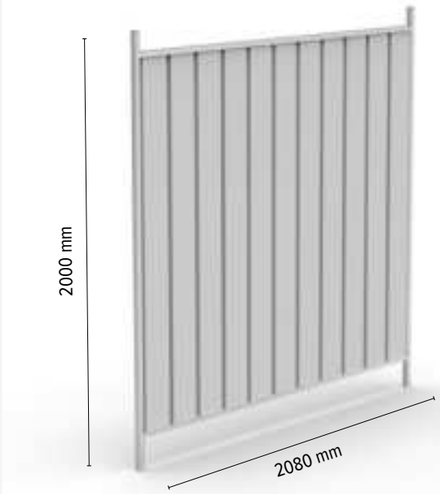


CLS & ABS bases

Security joints

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

Accessories P. 88



Accessories P. 88

MOBILE FENCES

DEFENDER CITY

Defender City is a fence that offers privacy and character to a project. Available in a pre-galvanized or pre-painted version (standard grey, with other colors available on request), it adapts to different contexts and local regulations.

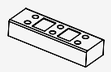
PRODUCT SPECIFICATION

Mobile fence for construction site, measuring 2000 mm in height and 2080 mm in width, with pre-galvanised tubular structure with two vertical 40 mm diameter tubes with horizontal “U” profiles complete with pre-galvanised or pre-painted corrugated sheet panels supplied with concrete blocks with or without ABS coating for support.

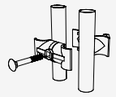
APPLICATIONS

- Construction sites
- Rapid storage
- Areas of work in progress
- Sports events and events in general
- Set-ups

Tube Ø40 mm



CLS & ABS bases



Security joints

Supporting brace

PANEL		PANELLING	TUBE
H	L		Vertical
mm	mm		mm
2000	1950	Pre-galvanised or pre-painted corrugated steel sheet	40

RAILING FENCES

ACUMINA®

Acumina® is a modular, anti-climbing fence, ideal for residential areas. Aesthetically refined, it's available in galvanized or painted finishes (including micaceous paint) for a handmade effect. It can be installed with 60x7 mm flat bar posts or a conified post in the 'Old' version.

TECHNICAL SPECIFICATIONS

Dimensions
- Truncated conical vertical tubular profiles with 117 mm centre distance and Ø20 mm
- 25x50x25x2 mm horizontal U-shaped profiles

Material
- UNI EN 10025 S235JR steel

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 94
- TTQST M10x30 stainless steel security bolts

Posts
- 60x7 mm flat bar post

Gates
- Single, double or sliding leaf gates

APPLICATIONS

- Residential areas
- Industrial areas
- Luxury houses
- Parks
- Outdoor areas of sports facilities

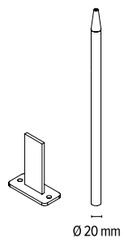
PRODUCT SPECIFICATION

The Acumina® fence consists of standard modular panels with vertical tubular profiles tapered at the top, measuring ... mm in height and 1992 mm in width, with profiles measuring 20 mm in diameter and 1,5 mm in thickness, and spaced 117 mm apart. Horizontal U-shaped profiles at the top and bottom of the panel, measuring 25x50x25x2 mm, equipped with perforated plate for fixing to the posts. Post centre distance: 2000 mm.

Accessories P. 88

Tube
Ø20 mm

Base Plate
130x60x7 mm
2 holes Ø12 mm



Flat bar post 60x7 mm

Detail of tubular profiles

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	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

*3 no. U profiles

RAILING FENCES

CELENO®

Celeno® is an elegant and robust fence with a simple and linear design. It provides security with no footholds for climbing and is free of spikes, making it ideal for residential areas and public parks.

TECHNICAL SPECIFICATIONS

Dimensions
- Vertical tubular profiles with 117 mm centre distance and Ø20 mm
- 25x50x25x2 mm horizontal U-shaped profiles

Material
- UNI EN 10025 S235JR steel

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 94
- TTQST M10x30 stainless steel security bolts

Posts
- 60x7 mm flat bar post

Gates
- Single, double or sliding leaf gates

APPLICATIONS

- Residential areas
- Industrial areas
- Luxury houses
- Parks
- Outdoor areas of sports facilities
- School buildings

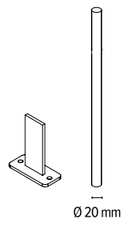
PRODUCT SPECIFICATION

The Celeno® fence consists of standard modular panels with vertical tubular profiles, measuring ... mm in height and 1992 mm in width, with profiles measuring 20 mm in diameter and 1,5 mm in thickness, and spaced 117 mm apart. Horizontal U-shaped profiles at the top and bottom of the panel, measuring 25x50x25x2 mm and 2 mm thick, equipped with perforated plate for fixing to the posts. Post centre distance: 2000 mm.

Accessories P. 88

Tube
Ø20 mm

Base Plate
130x60x7 mm
2 holes Ø12 mm

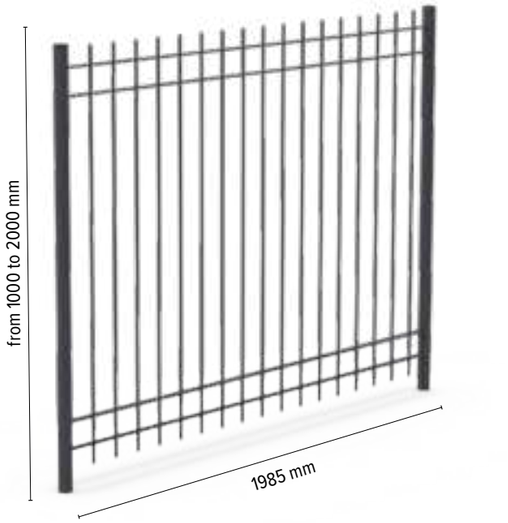


Flat bar post 60x7 mm

Detail of tubular profiles

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	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

*3 no. U profiles



RAILING FENCES

ANTICLEA®

Anticlea® is an elegant and solid fence made of 12 mm solid rods, inspired by Italian design. The patented system with a hidden pin ensures a clean aesthetic. It is ideal for prestigious areas and historic buildings.

TECHNICAL SPECIFICATIONS

Dimensions
- Pairs of horizontal 25x6 mm flat bars, centre distance 100 mm
- Ø12 mm vertical round bars, centre distance 110 mm

Material
- UNI EN 10025 S235JR steel

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Colours
- Standard colour micaceous grey, other RAL colours available on request

Fixing system - p. 92
- Stainless steel hidden pin

Posts
- Tubular post Ø50 / Ø60 mm

Gates
- Single, double or sliding leaf gates

APPLICATIONS

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

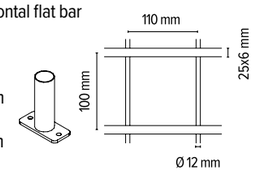
PRODUCT SPECIFICATION

The Anticlea® electrowelded grating fence is made up of modular monolithic panels, unwelded or side by side, measuring ... mm in height and 1985 mm in width, and with 100x110 mm mesh. Each panel is formed of two/three top and bottom pairs of horizontal flat bars, shaped and drilled at both ends (25x6 mm at a 100 mm centre distance), interconnected for electowelding with vertical round bars (Ø12 mm at 110 mm centre distance) rounded at both ends. Post centre distance: 2000 mm.

Accessories P. 88

Mesh
- Ø12 mm vertical bar
- 25x6 mm horizontal flat bar

Base Plate
- 130x60x7 mm
  2 holes Ø12 mm
- 150x80x8 mm
  4 holes Ø12 mm



Round tube post Ø50 o Ø60mm

Stainless steel hidden pin

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section tube	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea	mm	kg/ea
1000	1985	28,19	14,2	Ø 50	4	1300	3,4	1100	3,4
1200	1985	31,68	13,3	Ø 50	4	1500	3,9	1300	3,9
1500	1985	36,9	12,4	Ø 50	4	1800	4,7	1600	4,7
1800	1985	47,28	13,3	Ø 60	6	2100	5,5	1900	5,2
2000	1985	50,96	12,9	Ø 60	6	2300	6,0	2100	6,0

RAILING FENCES

RECINTHA® GIGLIO

Recintha® Giglio is a modular fence with a classic style, inspired by 20th-century patrician villas. With a tubular structure and fleur de lys finials, it combines elegance and visibility of greenery. Its antique finish and practical coupling system make it ideal for prestigious residences.

TECHNICAL SPECIFICATIONS

Dimensions
- Vertical tubular profiles with 110 mm centre distance and Ø16 mm with fleur de lys finials
- 20x30x20x3 mm horizontal U-shaped profiles

Material
- S235JR UNI EN 10025 Sendzimir galvanised steel

Coating
- Polyester coating

Colours
- Standard colour micaceous black, other RAL colours available on request

Fixing system - p. 92
- Crab-type clip
- Mounting bracket

Floor stands
- Floor stand in Ø40 mm tube

Gates
- Single, double or sliding leaf gates

APPLICATIONS

- Residential areas
- Public parks
- Street furniture
- Historical centres

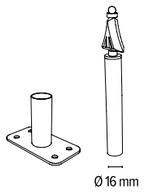
PRODUCT SPECIFICATION

Modular panel fencing consisting of 16 mm diameter tubing mounted with forged iron fleur de lys finials. The C-shaped tubing measures 30x20x2 mm and is welded with a 112 mm centre distance. The whole is mounted on a 40 mm diameter tubular post with special support lugs.

Accessories P. 88

Tubes
- Ø16 mm
- Ø40 mm

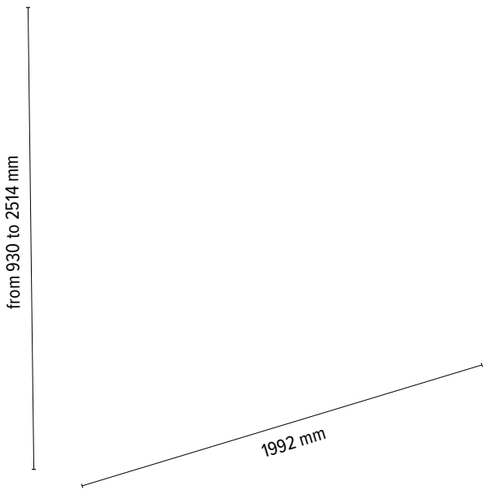
Base Plate
150x80x5 mm
4 holes Ø10,5 mm



Fleur de lys finials

Crab-type clip

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section tube	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	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



GRATING FENCE

STEROPE®

Sterope® is the classic Defim Orsogril branded grating fence, combining elegance and aesthetics with solidity and transparency. These characteristics are ensured by the rectangular mesh that makes the system versatile and suitable for a variety of uses. The Sterope® panels are supported by the traditional flat bar post, available in sizes 60x7 mm or 80x8 mm, according to the different heights required. The system guarantees a stable and durable structure.

MACS FENCES ALARM SYSTEMS - P. 68

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 62x132 mm
- Vertical plates 25x2 mm
- Horizontal round bars Ø4,5 mm

Material
- UNI EN 10025 S235JR steel
- COR-TEN steel S355 JOWP (only Sterope® 3)

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester resin coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 94
- TDE M10x30 stainless steel bolt
- TTQST M10x30 stainless steel security bolt

Posts
- 60x7 - 80x8 flat bar posts to be set in concrete or on base plate

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATION

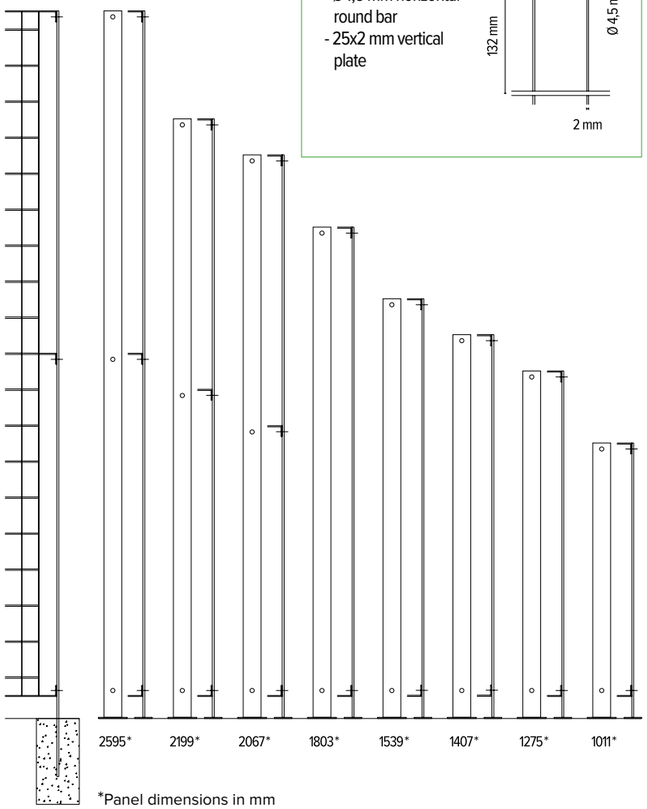
The Sterope® electrowelded grating fence consists of modular monolithic panels, unwelded or side by side, with height of ... mm, width 1992 mm, mesh size 62x132 mm with 25x2 mm vertical flat bars (centre distance 62 mm) and Ø4,5 mm horizontal round bars (centre distance 132 mm). The 25x4 mm flat bar horizontal frame elements are bent at the ends for a length of 40 mm and have a 12x16 mm slot. Frames electrowelded to vertical profiles without added material. Post centre distance: 2000 mm.

APPLICATIONS

- Industrial areas
- Residential areas
- Commercial areas
- Parking areas
- School buildings

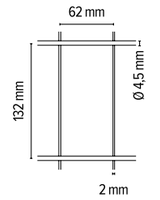
Accessories P. 88
Macs Fences System P. 68

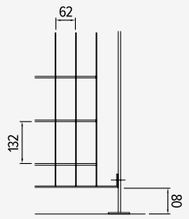
FENCES POSTS AND SYSTEMS



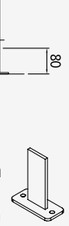
*Panel dimensions in mm

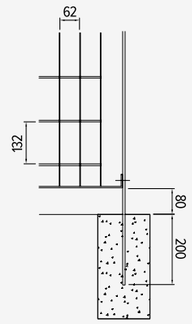
Mesh
- 62x132 mm
- Ø4,5 mm horizontal round bar
- 25x2 mm vertical plate

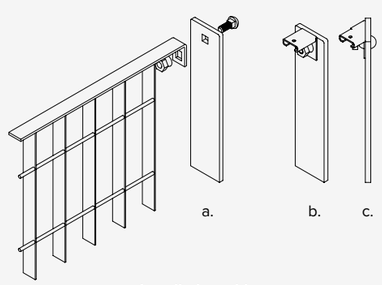




Base Plate
- 130x60x7 mm
  2 holes Ø12 mm
- 150x80x8 mm
  4 holes Ø12 mm



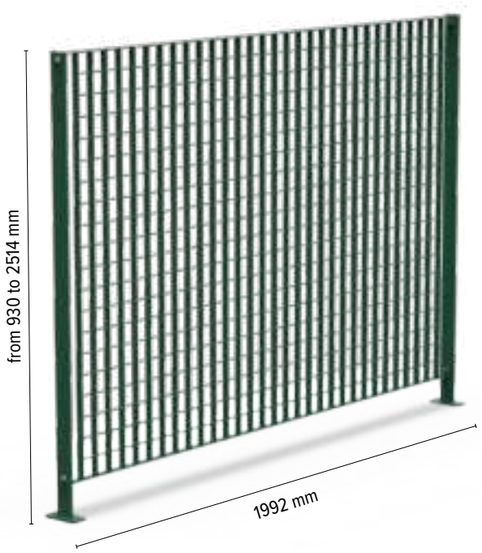




Installation with:
- flat bar post (a.)
- straight bracket (b.)
- 45° angle bracket (c.)

STEROPE® - TECHNICAL TABLE

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea	mm	kg/ea
930	1992	16,27	8,78	60x7	2	1210	4,4	1011	4,2
1194	1992	19,96	8,39	60x7	2	1494	5,4	1275	5,2
1326	1992	21,82	8,26	60x7	2	1625	5,9	1407	5,7
1458	1992	23,64	8,14	60x7	2	1758	6,4	1539	6,1
1722	1992	27,34	7,97	60x7	2	2015	7,3	1803	7,1
1986	1992	31,02	7,84	60x7	3	2336	8,5	2067	8,0
2118	1992	32,87	7,79	80x8	3	2470	13,7	2199	12,9
2514	1992	38,41	7,67	80x8	3	2915	16,1	2595	15,1



GRATING FENCE

PLEIONE®

Pleione® is a grating fence with a small square mesh that combines elegance and a refined design with solidity and robustness. The panels are matched with flat bar posts of 60x7 mm or 80x8 mm.

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 62x66 mm
- Vertical plates 25x2 mm
- Horiz. round bars Ø4,5 mm

Material
- UNI EN 10025 S235JR steel

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 94
- TDE M10x30 stainless steel bolt
- TTQST M10x30 stainless steel security bolt

Posts
- 60x7 – 80x8 flat bar posts to be set in concrete or on base plate

Gates
- Single, double or sliding leaf gates

MACS FENCES ALARM SYSTEMS - P. 68

APPLICATIONS

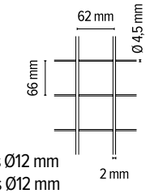
- Industrial plants
- Residential areas
- Commercial areas
- Public buildings

PRODUCT SPECIFICATION

The Pleione® electrowelded grating fence consists of modular monolithic panels, unwelded or side by side, with height of ... mm, width 1992 mm, mesh size 62x66 mm with 25x2 mm vertical flat bars (centre distance 62 mm) and 4,5 mm diameter horizontal round bars (centre distance 66 mm). The 25x4 mm flat bar horizontal frame elements are bent at the ends for a length of 40 mm and have a 12x16 mm slot. Frames electrowelded to vertical profiles without added material. Post centre distance: 2000 mm.

Accessories P. 88
Macs Fences System P. 68

Mesh
- 62x66 mm
- Ø4,5 mm horizontal round bar
- 25x2 mm vert. plate



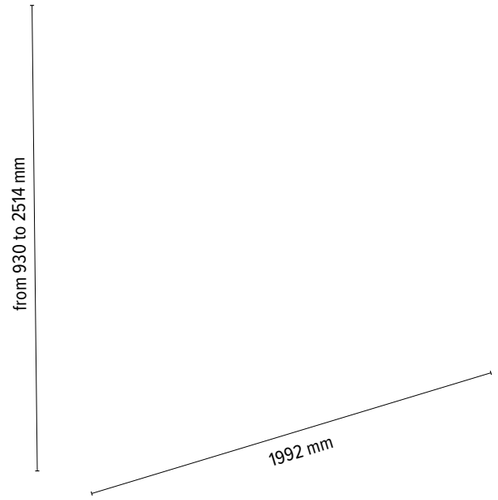
Base Plate
- 130x60x7 mm, 2 holes Ø12 mm
- 150x80x8 mm, 4 holes Ø12 mm

Flat bar post 60x7 mm 80x8 mm

Intermediate fixing brackets

Straight bracket

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	mm	kg/ea	mm	kg/ea
930	1992	17,91	9,67	60x7	2	1210	4,4	1011	4,2
1194	1992	22,07	9,28	60x7	2	1494	5,4	1275	5,2
1326	1992	24,14	9,14	60x7	2	1625	5,9	1407	5,7
1458	1992	26,23	9,03	60x7	2	1758	6,4	1539	6,1
1722	1992	30,39	8,86	60x7	2	2015	7,3	1803	7,1
1986	1992	34,54	8,73	60x7	3	2336	8,5	2067	8,0
2118	1992	36,62	8,68	80x8	3	2470	13,7	2199	12,9
2514	1992	42,87	8,56	80x8	3	2915	16,1	2595	15,1



GRATING FENCE

BRITOSTEROPE®

Britosterope® is a robust grating fence with thicker plates that guarantee a high level of security and a pleasant look. It consists of monolithic modular panels combined with 60x7 mm or 80x8 mm posts.

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 62x132 mm
- Vertical plates 30x4 mm
- Horiz. round bars Ø6 mm

Material
- UNI EN 10025 S235JR steel

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 94
- TDE M10x30 stainless steel bolt
- TTQST M10x30 stainless steel security bolt

Posts
- 60x7 – 80x8 flat bar posts to be set in concrete or on base plate

Gates
- Single, double or sliding leaf gates

MACS FENCES ALARM SYSTEMS - P. 68

APPLICATIONS

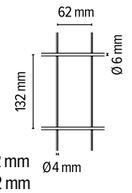
- Industrial plants
- Airports
- Military sites
- Infrastructures
- Industrial areas
- Residential areas
- Customs areas

PRODUCT SPECIFICATION

The Britosterope® electrowelded grating fence consists of modular monolithic panels, unwelded or side by side, with height of ... mm, width 1992 mm, mesh size 62x132 mm with 30x4 mm vertical flat bars (centre distance 62 mm) and 6 mm diameter horizontal round bars (centre distance 132 mm). The 30x4 mm flat bar horizontal frame elements are bent at the ends for a length of 40 mm and have a 12x16 mm slot. Frames electrowelded to vertical profiles without added material. Post centre distance: 2000 mm.

Accessories P. 88
Macs Fences System P. 68

Mesh
- 62x132 mm
- Ø6 mm horizontal round bar
- 30x4 mm vert. plate



Base Plate
- 130x60x7 mm, 2 holes Ø12 mm
- 180x80x8 mm, 4 holes Ø12 mm

Flat bar post 60x7 mm 80x8 mm

Intermediate fixing brackets

Straight bracket

PANEL				POST		To be set in concrete		On base plate	
H	L	Weight		Section	Fixing points	H	Weight galv.	H	Weight galv.
mm	mm	kg/ea	kg/m²	mm	no.	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

*Talia® Ventus Screen version

LOUVERED FENCE

TALIA® VENTUS / SCREEN

Talia® Ventus and Talia® Ventus Screen are louvered fences that combine elegance, privacy, and Made in Italy design. Thanks to the particular shape of the louvers, they offer a perfect balance between aesthetics and privacy, with the Screen version guaranteeing an even greater degree of visual screening. Both are certified for wind load and are distinguished by the quality of their materials and the ease of installation, which is made possible by the integration of the panel and the post.

MACS FENCES ALARM SYSTEMS - P. 68

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 46x132 mm
- Talia® and Talia® Screen horizontal profiles
- Vertical round bars Ø4 mm

Material
- UNI EN 10025 S235JR steel

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Colours
- RAL 6005 green, other RAL colours available on request

Fixing system - p. 94
- TTQST M10x30 stainless steel security bolt

Posts
- 80x8 mm flat bar post

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATION

Talia® Ventus and Talia® Ventus Screen fencing consist of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centre distance 46 mm), and 4 mm diameter vertical connection round bars (centre distance 132 mm). 80x8 mm flat bar posts welded at the ends, making up a monoblock ready for installation, with pre-drilled holes to fix consecutive panels. Centre distance: 1650-2000 mm. Finish: polyester powder coating on hot-dip galvanised material according to UNI EN ISO 1461.

APPLICATIONS

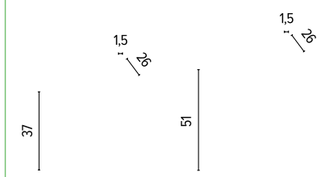
- Luxury houses
- Technical areas
- Public buildings

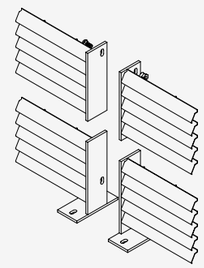
Accessories P. 88
Macs Fences System P. 68

DIMENSIONS AND SYSTEMS

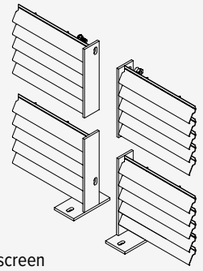
Talia® Ventus
- 1,5 mm thickness
- 37 mm height

Talia® Ventus Screen
- 1,5 mm thickness
- 51 mm height





Installation
Talia® Ventus



Installation
Talia® Ventus screen

TALIA® - TECHNICAL TABLES

Talia® Ventus

PANEL WITH POST				INTEGRATED POST 80x8 mm
H	L	Weight		H
mm	mm	kg/ea	kg/m²	mm
954	1650	37,4	23,8	lg 1200 to be set in concrete
		36,6	23,2	lg 1001 on base plate
954	2000	42,5	22,3	lg 1200 to be set in concrete
		41,7	21,9	lg 1001 on base plate
1596	1650	61,0	23,2	lg 1850 to be set in concrete
		60,1	22,8	lg 1643 on base plate
1596	2000	69,6	21,8	lg 1850 to be set in concrete
		68,7	21,5	lg 1643 on base plate
1963	1650	75,3	23,2	lg 2300 to be set in concrete
		73,5	22,7	lg 2010 on base plate
1963	2000	85,9	21,9	lg 2300 to be set in concrete
		84,1	21,4	lg 2010 on base plate

*3 no. fixing points per panel

Talia® Ventus Screen

PANEL WITH POST				INTEGRATED POST 80x8 mm
H	L	Weight		H
mm	mm	kg/ea	kg/m²	mm
967	1650	45,6	28,6	lg 1200 to be set in concrete
		44,8	28,0	lg 1014 on base plate
967	2000	52,4	27,1	lg 1200 to be set in concrete
		61,6	31,9	lg 1014 on base plate
1608	1650	74,4	28,1	lg 1850 to be set in concrete
		73,5	27,7	lg 1655 on base plate
1608	2000	85,9	26,7	lg 1850 to be set in concrete
		85,0	26,4	lg 1655 on base plate
1975	1650	91,7	28,2	lg 2300 to be set in concrete
		89,9	27,6	lg 2022 on base plate
1975	2000	105,8	26,8	lg 2300 to be set in concrete
		104,0	26,3	lg 2022 on base plate

*3 no. fixing points per panel

*TaliAlive Screen version

LOUVERED FENCE

TALIALIVE / SCREEN

TaliAlive and TaliAlive Screen are COR-TEN steel louvered fences that modernize the artisan tradition of iron. Elegant, simple, and timeless, they guarantee privacy and eliminate maintenance costs thanks to the 'living' material that changes over time, enhancing the surroundings. The Screen version, with more pronounced louvers, offers a superior level of visual screening. Both are windbreaker certified and feature an integrated panel-post system for quick and easy installation.

MACS FENCES ALARM SYSTEMS - P. 68

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 46x132 mm
- Talia® e Talia® Screen horizontal profiles
- Vertical rounds Ø4 mm

Material
- S355JOWP COR-TEN steel

Treatment
- Optional accelerated oxidation

Fixing system - p. 94
- TTQST M10x30 stainless steel or Nerinox security bolt

Posts
- Pedestal in 60x7 mm or 80x8 mm plate on project-specific request

Gates
- Single, double or sliding leaf gates

PRODUCT SPECIFICATION

The TaliAlive and TaliAlive Screen louvered fencing in COR-TEN consists of modular monolithic panels, 46x132 mm mesh, special section horizontal profiles (centre distance 46 mm), and 4 mm diameter vertical connection round bars (centre distance 132 mm). 60x7 mm or 80x8 mm flat bar posts welded at both ends, making up a monoblock ready for installation, with pre-drilled holes to fix consecutive panels. Centre distance: 1650-2000 mm. Material: COR-TEN steel. Treatment: optional accelerated oxidation.

APPLICATIONS

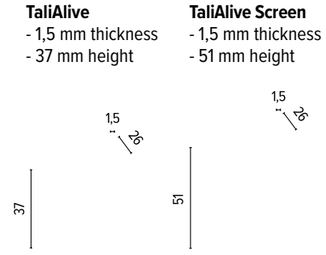
- Luxury houses
- Technical areas
- Public buildings

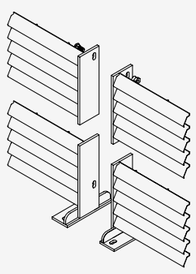
Accessories P. 88
Macs Fences System P. 68

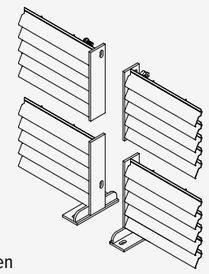
DIMENSIONS AND SYSTEMS

TaliAlive
- 1,5 mm thickness
- 37 mm height

TaliAlive Screen
- 1,5 mm thickness
- 51 mm height




Installation
TaliAlive


Installation
TaliAlive screen

TaliAlive

PANEL WITH POST				INTEGRATED POST 60x7 mm
H	L	Weight		H
mm	mm	kg/ea	kg/m²	mm
954	1650	29,9	19,0	lg 1200 to be set in concrete
		29,4	18,7	lg 1001 on base plate
954	2000	34,6	18,1	lg 1200 to be set in concrete
		34,0	17,8	lg 1001 on base plate
1596	1650	49,1	18,6	lg 1850 to be set in concrete
		48,5	18,4	lg 1643 on base plate
1596	2000	56,9	17,8	lg 1850 to be set in concrete
		56,4	17,7	lg 1643 on base plate

PANEL WITH POST				INTEGRATED POST 80x8 mm
H	L	Weight		H
mm	mm	kg/ea	kg/m²	mm
1963	1650	68,5	21,1	lg 2300 to be set in concrete
		67,0	20,7	lg 2010 on base plate
1963	2000	78,1	19,9	lg 2300 to be set in concrete
		76,6	19,5	lg 2010 on base plate

*3 no. fixing points per panel

TaliAlive Screen

PANEL WITH POST				INTEGRATED POST 60x7 mm
H	L	Weight		H
mm	mm	kg/ea	kg/m²	mm
967	1650	37,3	23,4	lg 1200 to be set in concrete
		36,8	23,1	lg 1014 on base plate
967	2000	43,6	22,5	lg 1200 to be set in concrete
		43,0	22,2	lg 1014 on base plate
1608	1650	61,3	23,1	lg 1850 to be set in concrete
		60,7	22,9	lg 1655 on base plate
1608	2000	71,7	22,3	lg 1850 to be set in concrete
		71,2	22,1	lg 1655 on base plate

PANEL WITH POST				INTEGRATED POST 80x8 mm
H	L	Weight		H
mm	mm	kg/ea	kg/m²	mm
1975	1650	83,4	25,6	lg 2300 to be set in concrete
		81,9	25,1	lg 2022 on base plate
1975	2000	96,2	24,4	lg 2300 to be set in concrete
		94,7	24,0	lg 2022 on base plate

*3 no. fixing points per panel

TALIALIVE, LIFE AND THE ENVIRONMENT

Unique fencing system encompassing all the appeal of COR-TEN steel. The curing and oxidation process makes the steel of this product a 'living' material that can vary over time, changing in hues and shades in a way that can always enhance the overall aesthetic appearance thanks to the play of light and shadow typical of the grating structure. 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. It is the original, highly aesthetic choice for quality projects.

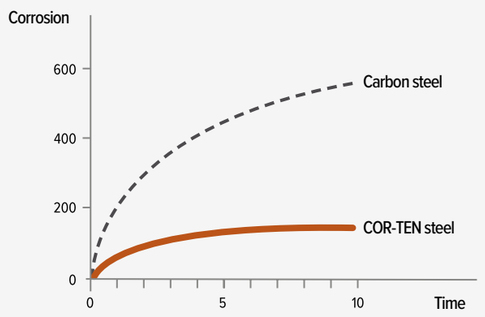
TALIALIVE, MODERNITY AND EFFICIENCY

With a low alloy content and high mechanical resistance, COR-TEN is a steel that is playing an increasingly important role in modern architecture due to its aesthetics but also its durability and need for no maintenance. TaliAlive encompasses all the features sought after by the most advanced building technology.

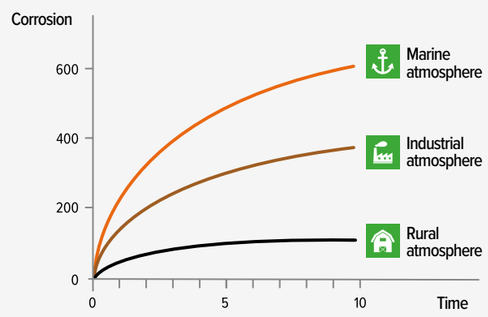
TaliAlive guarantees:
- zero maintenance costs
- corrosion resistance five to eight times higher than carbon steel
- high mechanical strenght

TALIA, MORE SOLUTIONS FOR YOUR PROJECT

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



COR-TEN steel versus Carbon steel



COR-TEN steel in various atmospheres

GATES

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

APPLICATIONS

- Railway lines
- Industrial plants
- Military sites
- Airports
- Customs warehouses
- Boundary lines
- Residential areas
- Luxury houses
- Technical areas
- Historical centres
- Car race tracks
- Commercial areas
- Sports facilities
- Public and school buildings
- Maximum security fences
-Telecommunications equipment

FLASH LINE

Available in standard dimensions, the gates in the Flash line are available in standard sizes and pedestrian versions with single or double leaf swing doors, with a lightweight yet strong structure. Their simplicity, combined with low costs and ready availability in the warehouse, makes them suitable for a wide range of projects in different contexts. Made of pre-galvanised and powder-coated profiles, and with electrowelded mesh panelling, they represent a practical and durable solution ready to be quickly integrated into any environment.

TAILOR-MADE LINE

Built on project specification and with a reinforced structure, the gates in the tailor-made line are made of pre-galvanised and powder-coated profiles, and are fitted with electrowelded mesh panelling designed to be in keeping with the fence in which they are inserted. Available in hinged (pedestrian and driveway) and sliding versions, all CE certified, they guarantee robustness, functionality and quality design and are the perfect solution for professional and high-end applications.

SG LINE

The gates in the SG Line are tailored and hot-dip galvanised after welding. They feature a tubular frame with panelling to match the fence: grating, tubular or louvered. Designed for professional and high-end applications with CE certification, they are available in hinged (pedestrian and driveway) and sliding versions. A paint finish in the desired colour can be added on request.

SPORT LINE

The gates of the Sport Line are designed for sports facilities and made in accordance with current regulations on separation of spaces and safety for playgrounds, stadiums and sports centres. They are available in pedestrian and driveway versions, with CE certification and compliant with UNI EN 13200.

ALARM SYSTEM

MACS FENCES

MACS (MEMS-based anti-climbing system) accurately detects attempts to break in and pass over, discriminating between natural or accidental events with great precision. Easy to install and remotely monitored, it is an important step forward for perimeter security. Adaptable to any project, thanks to a self-learning technology, adapts to the fence on which it is installed and can be updated over time.

TECHNICAL SPECIFICATIONS

MANAGEMENT SOFTWARE

Connections
Accessible via compatible web browsers without additional installations

Number of zones
Up to 32 zones, with no limit on the number of sensors per zone, and freely programmable to a single output

Number of configurations
Up to 32 storable configurations

Alarms
Pre-alarm / Alarm / Tamper / Fault

Installation
- Auto-initialization of sensors
- Automatic detection of sensors on the bus
- Capability to replace a single sensor
- Firmware updates for both sensors and master

Programming
Real-time calibration of parameters with feedback

Backup
Sensor identification via magnetic tag

User management
Up to 3 user levels with distinct credentials and authorizations

SENSOR

Dimensions
89x73x25,5 mm

Ingress protection rating
IP67

Relative humidity
0-100%

Material
UV-resistant, glass-fiber-reinforced nylon (PA66), resinsealed

Mounting system
Single central-screw mounting using either:
- A back-plate for installation on mesh or wire fencing
- A self-drilling screw for metal surfaces (e.g. poles)

Coverage area
Up to 3x6 m (with the sensor positioned centrally relative to the panel)

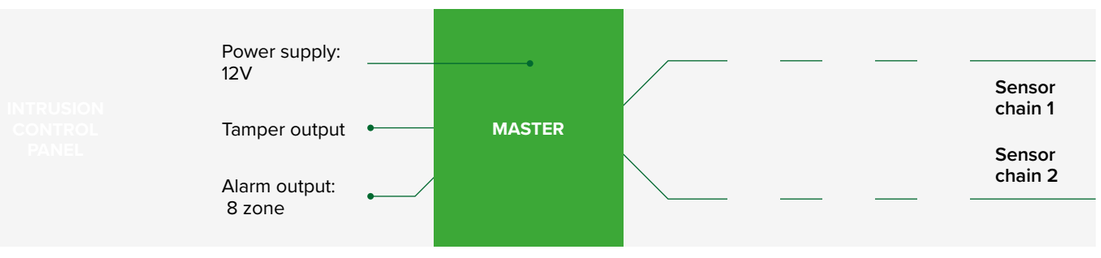
Chain configuration
- Up to 120 sensors per communication bus (2 buses per master)
- Chains of max. 20 sensors with 3 m pitch (effective 2,5 m spacing sensor-to-sensor)
- Chains of max. 20 sensors with 6 m pitch (effective 5 m spacing sensor-to-sensor)

ITEM SPECIFICATIONS

Anti-climbing system, perimeter-integrated or semi-integrated with the fencing structure. It consists of a network board with Ethernet port, 4 digital inputs, 8 NC outputs plus tamper, and an IP67-rated master unit capable of managing 2 chains of MEMS-based sensors with IP68 protection. The entire system is powered via the network board and managed through a dedicated web interface with remote programming capabilities.

APPLICATIONS

- Residential areas
- Industrial areas
- Commercial areas
- Green areas
- Railway lines
- Telecommunications sites
- Military sites
- Customs and airports
- Maximum security fences
- Boundary lines
- Parking lots
- School buildings
- Public buildings
- Photovoltaic farms



Integrated MACS Fences application, one sensor every two posts

ALARM SYSTEM

INTEGRATED MACS FENCES

MACS is specially designed to integrate harmoniously and functionally with the Recintha® Safety model. A new and higher safety system is thus defined to guarantee an elegant design perfectly integrated, respecting the Italian style, invisible with inaccessible sensors and cables, designed for Defim Orsogril fences.

TECHNICAL SPECIFICATIONS

NETWORK BOARD (MACS-ETH)

Power supply
12 VDC – 3 A

Mounting system
DIN rail support

Board dimensions
146x84 mm

Digital inputs
4 digital inputs

NC outputs – quantity
8+1 tamper

NC outputs – type
Optomos relays: max 60 V, 400 mA, contact resistance < 2 ohm

Communication type
Ethernet port

Digital memory
> 10,000 events

MASTER UNIT (MACS-MAS)

Power supply
Powered by the network board

Mounting system
DIN rail support inside weatherproof enclosure

Enclosure type
Weatherproof aluminum alloy housing

Ingress protection rating
IP66

Enclosure dimensions
140x115x61 mm

Digital inputs
Tamper input

NC outputs – quantity
1

NC outputs – type
Optomos

Connections
2 communication buses to sensors, 1 communication bus to the network board, W-Sync line

ALARM SYSTEMS

OUTDOOR MACS FENCES

MACS' advanced electronics has been developed to extend all the benefits of intelligent protection to a wide range of Defim Orsogril fences. Thanks to the compact design of the sensor, MACS integrates in a distinctive and elegant way with the different solutions. You can choose different colors of the cable to match the project in which the system is inserted. With the central single screw mechanism, installation is quick and easy.

MACS is compatible with: **Recintha® N/L, 202, Sterope®, Pleione®, Britosterope® and the Talia® line.**

MACS Fences outdoor application, one sensor every two panels

INNOVATIVE CONSTRUCTION

WALL CLADDING

Our wall cladding systems are designed to combine aesthetics, functionality, and sustainability. These solutions are conceived to enhance contemporary architecture and meet the needs of redevelopment, using materials and technologies that unite design with long-term durability

SECTION INDEX

Talia® / Screen / TaliAlive **P. 72**
Teti **P. 74**
Semi-finished Vertical Grating **P. 76**

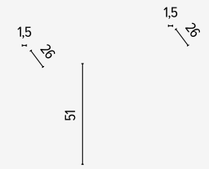
WALL CLADDING

TALIA® / SCREEN / TALIALIVE

Elevate your new construction and renovation projects with the Talia® line, a collection of elegant and versatile solutions designed for today's most refined architectural contexts. With premium galvanized and powder-coated finishes, Talia® brings a bold, distinctive character to any project. Available in both Standard and Screen versions for different levels of screening, the range also includes TaliAlive made from COR-TEN steel, which combines a warm, natural aesthetic with zero maintenance, offering a beauty that evolves over time. Our Technical Office provides support to optimize dimensions, ensuring a perfect fit for your project.

Talia®
- 1,5 mm thickness
- 37 mm heigh

Talia® Screen
- 1,5 mm thickness
- 51 mm heigh



TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 46x132 mm
- Talia® and Talia® Screen horizontal/vertical profiles
- Vertical/horizontal round bars Ø4 mm

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

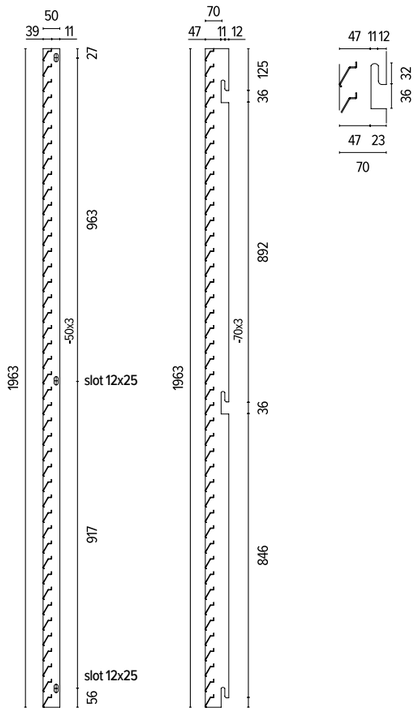
Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating
- Optional accelerated oxidation (COR-TEN)

PRODUCT SPECIFICATION

Wall cladding system consisting of louvered elements made of S235JR steel or COR-TEN steel with a 46x132 mm mesh connected by electrowelding with Ø4 mm vertical round bars.

SYSTEMS

Standard fastening systems
- 50x1963 mm module with slot
- 70x1963 mm module with clip



WALL CLADDING

TETI

Teti is Defim Orsogril's exclusive facade cladding system, made with electrowelded metal profiles and 4 mm vertical round bars. Available in a solid or micro-perforated version, it combines elegance and permeability. The direct fixing of the unframed panel to the structure makes installation quick, economical, and suitable for different project contexts.

TECHNICAL SPECIFICATIONS

Dimensions
- Mesh size 116x200 mm
- Horizontal profiles
- Vertical round bars Ø4 mm

Material
- UNI EN 10025 S235JR steel (solid profile)
- UNI EN 10025 S235JR Sendzimir steel (micro-perforated profile)

Coating
- EN ISO 1461 hot-dip galvanisation
- Polyester coating

Fixing system
- Front with self-drilling screws

PRODUCT SPECIFICATION

The Teti wall cladding consists of modular, monolithic panels, 116x200 mm mesh, special section horizontal profiles (centre distance 116 mm), Ø4 mm vertical connection round bars (centre distance 200 mm).

Solid profile
Material: UNI EN 10025 S235JR steel

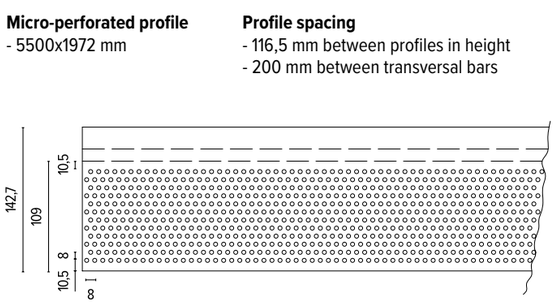
Micro-perforated profile
Material: UNI EN 10025 S235JR Sendzimir steel

Finish: polyester powder coating on hot-dip galvanised material according to UNI EN ISO 1461 or on Sendzimir material.
Front fastening system with self-drilling screws.
We recommend the use of one fastener per profile.
Panel dimensions 5500x1972 mm.

DIMENSIONS AND SYSTEMS

Micro-perforated profile
- 5500x1972 mm

Profile spacing
- 116,5 mm between profiles in height
- 200 mm between transversal bars



PANEL				MESH SIZE		TRANSVERSE BAR
H	L	Weight		H	L	Ø
mm	mm	kg/ea	kg/m²	mm	mm	mm
1972	5500	167,7	15,5	116	200,0	5,0

WALL CLADDING

SEMI-FINISHED VERTICAL GRATING

To complete its offer in the area of fences, Defim Orsogril provides a wide choice of semi-finished products in standard sizes (see table) with a rough or hot-dip galvanised finish for steel framework manufacturers, blacksmiths or steel stockholders that want to customise the finish of fences, technical areas, wall panels and more.

TECHNICAL SPECIFICATIONS

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

Coating
- EN ISO 1461 hot-dip galvanisation
- Optional pickling (COR-TEN)

	PANEL			MESH SIZE		BEARING BAR		SPACER	PACKAGE
	H	L	Weight	A	B	H	Th	Ø (nominal)	No. of pieces
TYPE	mm	mm	kg/ea	mm	mm	mm	mm		
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	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	th. 1,5		4	5
	5400	1963	145	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	th. 1,5		4	5
	5400	1975	190	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	th. 1,5		5	5
TETI MICROFORATA 1 SENDIZIMIR	5500	1972	152,6	116	200	th. 1,5		5	5
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			25	6	12	5

COR-TEN, A FRIEND OF NATURE

PAN™ LINE

Natural, resistant, and exclusive: PAN™ is a COR-TEN steel wire that protects crops, integrating seamlessly into the landscape. It's a complete range for the wine-growing sector, designed to last and respect the environment.

SECTION INDEX

COR-TEN 100% **P. 80**

PAN™ **P. 81**

PAN™ Wire
PAN™ Mesh
PAN™ Mesh Free
PAN™ Mesh Fix
Vineyards PAN™-Props

A MATERIAL WHERE NATURE STRENGTH JOINS WITH ITS BEAUTY

COR-TEN 100%

COR-TEN steel is a versatile material bearing the main features in its name:
COR - rosion resistance
TEN - sile strength

COR-TEN steel main property is in its ability to resist from electrochemical corrosion. In fact, during the natural oxidation process, the metal releases an oxide powder of the alloy elements that covers the material top surface made by a porous outer layer and a very thin and impermeable inner layer, rich in copper (0,2-0,5%), chrome (0,5-1,5%) and phosphorus (0,1-0,2%).

OXIDATION PROCESS AND COLOUR SHADING EVOLUTION OVER TIME

Exposure to alternating rain, humidity, and sun activates **COR-TEN** steel's natural surface oxidation process within a few months.

PAN™ is an exclusive **COR-TEN** steel wire with high strength and low elongation characteristics, self-protecting from atmospheric corrosion by creating a thin oxidized layer. The brownish wire appearance due to its ageing it allows a complete harmonization in vineyards landscape.

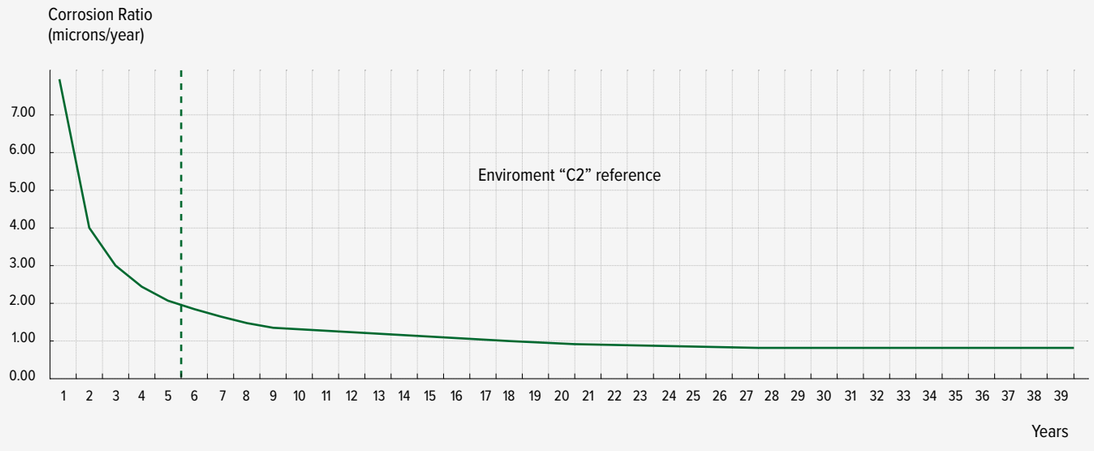
1st month | **2nd** month | **3rd** month | **4th** month | **5th** month | **6th** month | **7th** month | **8th** month

LASTING TIME LONGER THAN VINEYARD LIFE

The **COR-TEN** steel wire diameter physiological reduction stops in five years, offering after this period superior standard.

The self-protective oxidation process against atmospheric agents, allows this wire a life cycle longer than 40 years as the test (*) carried out at the "Politecnico di Milano" (Milan Polytechnic) shows.

* Tests carried out in an aggressive environment (Bordeaux Mixture), show unaltered mechanical characteristics over time with an average diameter thickness decrease of 0,16 mm for PAN wire 2,2 mm diameter.



Available in Coils of 25 kgs. Special packaging possible upon request.

WIRE FOR VINEYARDS IN COR-TEN

PAN™ WIRE

PAN™ is the final link in a production chain controlled from the start. It is part of the Feralpi Group, one of Europe's leading steel producers, of which Defim Orsogril is a part. The sustainable process, because it respects man and the land, is the answer to those seeking a product in harmony with the environment. It magnifies the typical COR-TEN steel technical features and combines its natural and environmental friendly look to the high resistance and low elongation performances, leading the traditional galvanized and zinc-aluminum top-level wires.

APPLICATIONS

- Vineyards
- Apple orchards
- High density olive groves
- Orchards

TECHNICAL CHARACTERISTICS

Wire size
Ø from 1,6 to 3,9 mm

Duration
Beyond the life of the vineyard

Elongation
3/6%

Material
Steel COR-TEN S355JOWP

Average Rm
900 N/mm²

CLASSICAL GALVANIZED WIRE			ZINC-ALUMINUM WIRE			PAN™ WIRE		
Elongation **18-20%**			Elongation **10-12%**			Elongation **3-6%**		
Rm average **420 N/mm²**			Rm average **780 N/mm²**			Rm average **900 N/mm²**		
Ø	Output	Load	Ø	Output	Load	Ø	Output	Load
mm	m/kg	kg	mm	m/kg	kg	mm	m/kg	kg
2,0	40,6	130						
2,2	33,5	163	1,6	63,4	160			
2,4	28,2	190	1,8	50,1	200	1,6	63,4	190
			2,0	40,6	240	1,8	50,1	240
2,7	22,3	250	2,2	33,5	290	2,0	40,6	300
3,0	18,0	300	2,5	26,0	350	2,2	33,5	365
3,4	14,0	380	2,8	20,7	430	2,3	30,7	400
3,9	10,7	560	3,2	16,4	520	2,7	22,3	520
4,4	8,4	680	3,4	14,0	680	2,9	19,3	600
4,9	6,8	780	4,0	10,1	940	3,6	12,5	920
5,4	5,6	950	4,5	8,0	1190	3,9	10,7	1015

COMPARISON WITH STANDARD WIRE

Unlike the traditional Galvanized and ZnAL wires, **PAN**™ integrates ecologically into the vineyard due to its harmonious and timeless appearance.

Standard vineyard wire

COR-TEN PAN™ wire

COR-TEN KNOTTED MESH

PAN™ MESH

The knotted **PAN™ Mesh** fits harmoniously into the most prestigious agricultural contexts without affecting the aesthetics of the environment, offering durability and low elongation. Thanks to its extreme resistance, this mesh is able to offer a barrier to large sized animals. The knotted mesh is made of horizontal wire increasing c/c openings from bottom to top. The mesh adapts to any stepped ground. It is ideal for agricultural fencing, especially for viticulture or animal farms. There are two available product lines, standard and heavy, able to stop large animals such as boars, roe deers, wolves, etc...

APPLICATIONS

- Vineyards
- Orchards
- Agriculture
- Zootechnics

TECHNICAL CHARACTERISTICS

Rolls
from 50 m

Mesh
differentiated

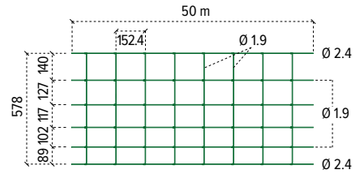
Wire size
PAN™ Mesh Ø1,9/2,4 mm
PAN™ Mesh Strong Ø3,0/3,7 mm

Material
Steel COR-TEN S355JOWP

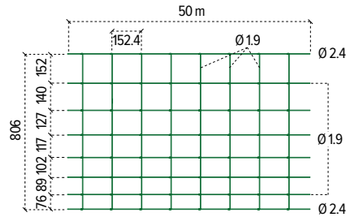
PAN™ MESH		
Type	m^2	kg/pc
A 60 - 6 - 15	28,80	14,10
C 80 - 8 - 15	40,20	18,60
E* 100 - 9 - 15	**49,10**	**21,30**
L 120 - 13 - 15	59,20	28,40
N 150 - 12 - 15	74,50	29,30
O* 200 - 17 - 15	**101,20**	**40,30**

PAN™ MESH STRONG		
Type	m^2	kg/pc
A 80 - 8 - 15	40,20	40,70
B* 100 - 9 - 15	**49,00**	**46,50**
C 120 - 10 - 15	59,00	52,50
D 140 - 11 - 15	70,50	59,10
O* 200 - 17 - 15	**101,20**	**83,59**

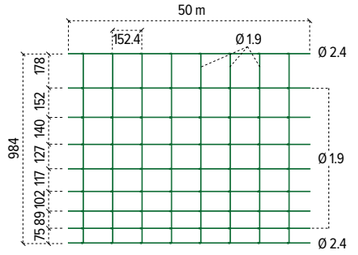
PAN™ MESH - ROLLS FROM 50 lm



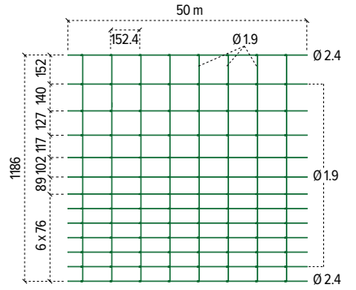
A 60 - 6 - 15



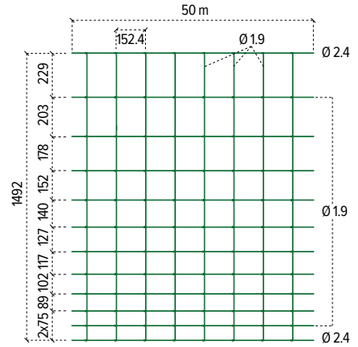
C 80 - 8 - 15



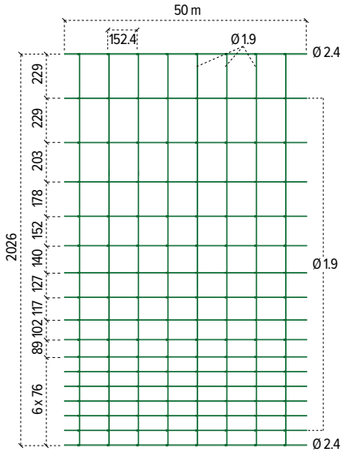
E 100 - 9 - 15



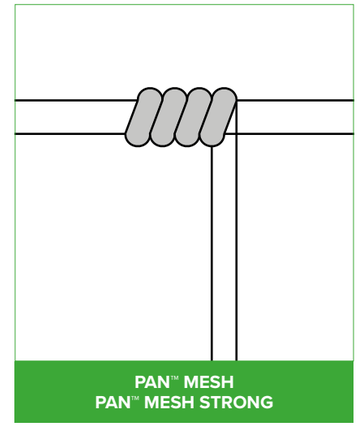
L 120 - 13 - 15



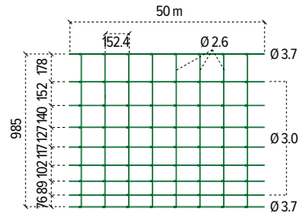
N 150 - 12 - 15



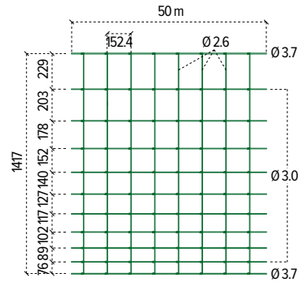
O 200 - 17 - 15



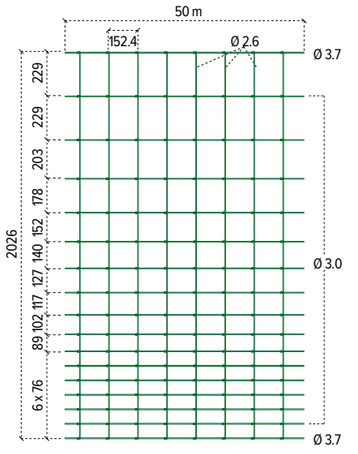
PAN™ MESH STRONG - ROLLS FROM 50 lm



B 100 - 9 - 15



D 140 - 11 - 15



O 200 - 17 - 15

COR-TEN CHAIN-LINK MESH

PAN™ MESH FREE

Loose mesh rolls due to their special conformation are ideal for delimiting large fields and plots.
PAN™ Mesh Free with the use of **COR-TEN** brings these characteristics to the maximum with a pure material that does not deteriorate over time. The roll not being coated with plastics or paints but self-protecting with a natural patina blends harmoniously with the rural environment.
Due to its strength and low elongation characteristics, **COR-TEN** is able to guarantee consistent performance over time in both aesthetics and rigidity. Rolls can be produced with 50x50 mm mesh in 2,2 or 2,4 mm wire in 1000, 1250, 1500, 1750 and 2000 mm heights.

APPLICATIONS

- Vineyards
- Orchards
- Agriculture
- Zootechnics

TECHNICAL CHARACTERISTICS

Rolls
from 25 m

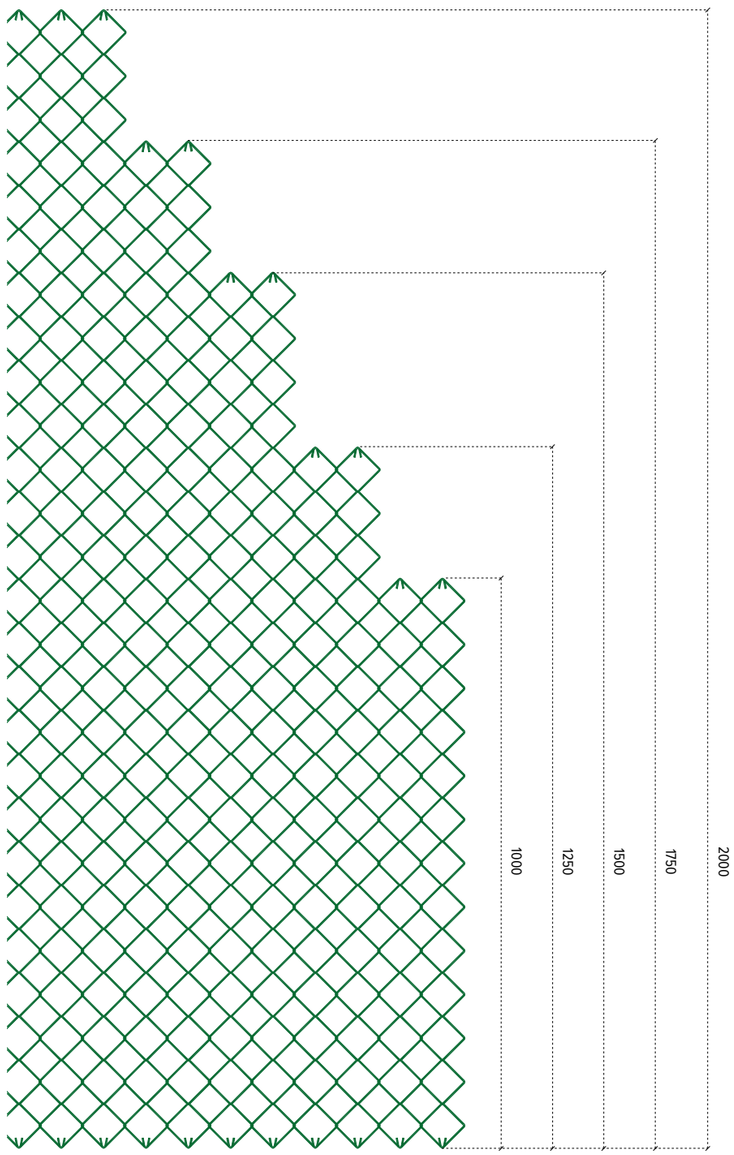
Mesh
Chain Link

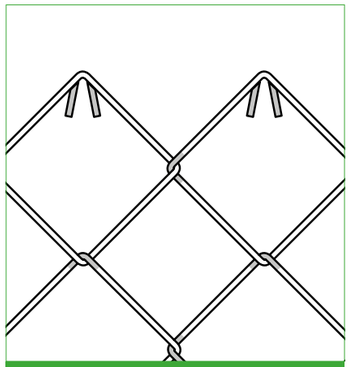
Wire size
PAN™ Mesh Free Ø2,2 mm
PAN™ Mesh Free Strong Ø2,4 mm

Material
Steel COR-TEN
S355JOWP

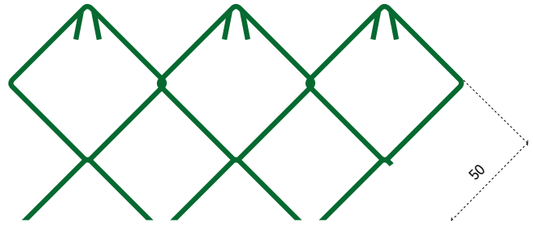
PAN™ MESH FREE		
Type	m^2	kg/pc
A 100 - 50 - 2,2	25,00	31,50
B 125 - 50 - 2,2	31,25	39,38
C 155 - 50 - 2,2	38,25	48,83
D 175 - 50 - 2,2	43,75	55,13
E 200 - 50 - 2,2	50,00	63,00
F 100 - 50 - 2,4	25,00	37,50
G 125 - 50 - 2,4	31,25	46,88
H 155 - 50 - 2,4	38,25	58,13
I 175 - 50 - 2,4	43,75	65,63
L 200 - 50 - 2,4	50,00	75,00

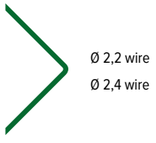
PAN™ MESH FREE - ROLLS FROM 25 lm

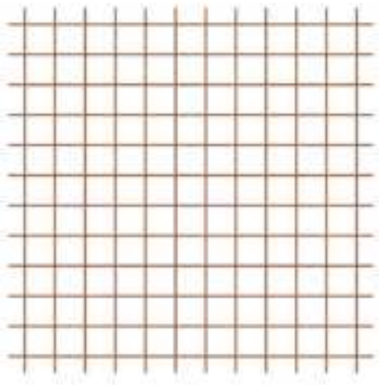




PAN™ MESH FREE







COR-TEN WELDED WIRE MESH

PAN™ MESH FIX

Our 60 years of experience has made us one of the leaders in the world of welded mesh. The constant search for innovative materials has brought the application of **COR-TEN** to our meshes and fences. We are now able to produce any type of welded mesh, including our **Recintha® N/L** line and rolls, also in **COR-TEN** to be able to adapt better to every agricultural context and offer solutions that can last over time with naturalness without coatings but capable of protecting themselves. Thanks to its maturation process, **COR-TEN** is a "living" material capable of nuances that change over time, enhancing the context in which it is inserted.

TECHNICAL CHARACTERISTICS

Wire size
Ø from 3,0 to 4,4 mm

Mesh
from 25 mm to 200 mm

Material
Steel COR-TEN S355JOWP

APPLICATIONS

- Agriculture
- Zootechnics
- Construction

COR-TEN STEEL TUTORS

VINEYARDS PAN™-PROPS

For a Total-**COR-TEN** solution, Defim Orsogril has developed 7 mm diameter bars in patinable steel that guarantees the same performance as the normal 8 mm wire but with all the quality and technical-aesthetic value of the **PAN™** line. Thanks to these supports, the perfect verticality of the tendrils and the solidity of the row are guaranteed. **PAN™** Props is in harmony with the vineyard and offers longevity beyond of its life. Always available from stock in heights 1200, 1500 and 1600 mm, can be also produced on request for different needs.

TECHNICAL CHARACTERISTICS

Size bar
Ø7 mm

Length
from 1000 mm to 2000 mm

Material
Steel COR-TEN S355JOWP

APPLICATIONS

- Vineyards
- High density olive groves
- Orchards

TO COMPLETE EVERY PROJECT

ACCESSORIES

SECTION INDEX

POSTS P. 90

ASSEMBLY SYSTEMS P. 92

Fixing systems
Accessories
Fencing accessories
Screws

ALARM SYSTEMS P. 95

CAPS P. 96

DEDICATED ACCESSORIES P. 97

Recintha® accessories
Defender accessories
Grating accessories

I

POSTS

SQUARE POST
60x60 mm

- 60x60 mm square post, thickness 1,2 mm
- Hot-dip galvanized and polyester powder coated finish
- Available models: to be set in concrete or on base plate
- Base plate size: 150x80x5 mm, 4 holes Ø10,5 mm

Product code
RCPN0060XXXX

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® 202
Recintha® P.G.

RECTANGULAR POST
80x60 mm / 120x60 mm

- 80x60 mm rectangular post, thickness 3 mm
- 120x60 mm rectangular post, thickness 2 mm
- Hot-dip galvanized and polyester powder coated finish
- Available models: to be set in concrete or on base plate
- With either threaded inserts to suit mesh clips, or with cover plate and securitybolt

Product code cap 80
RCRT8060XXXX

Product code cap 120
RCRT1260XXXX

Accessory for
Recintha® Safety

ROUND POST
Ø40 mm

- Ø40 mm round post, thickness 1,2 mm
- Hot-dip galvanized and polyester powder coated finish
- Available models: to be set in concrete or on base plate
- Base plate size: 150x80x5 mm, 4 holes Ø10,5 mm

Product code
RCPC0040XXXX

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® P.G.

OMEGA POST+FLAT COVER PLATE
60x40x25x3 mm

- 60x40x25 mm Omega post with 90x4 mm cover plate
- Predrilled for security bolt installation
- Hot-dip galvanized and polyester powder coated finish
- Available models: to be set in concrete or on base plate

Product code
RCOM3060XXXX

Cover plate:
RCPT4090XXXX

Accessory for
Recintha® 202
Recintha® Safety

OMEGA POST+FLAT COVER PLATE
120x60x30x3 mm

- 120x60x30x3 mm Omega post with 120x4 mm cover plate
- Predrilled for security bolt installation
- Hot-dip galvanized and polyester powder coated finish
- Available models: to be set in concrete or on base plate

Product code
RCOM3120XXXX

Cover plate:
RCPT4120XXXX

Accessory for
Recintha® 202
Recintha® Safety
Recintha® Stadium

ROUND POST WITH “GIGLIO” STYLE
Ø40 mm

- Ø40 mm round post, thickness 1,2 mm, zinc alloy top decorations
- Hot-dip galvanized and micaceous grey polyester powder coated finish
- Available models: to be set in concrete or on base plate
- Base plate size: 150x80x5 mm, 4 holes Ø10,5 mm

Product code
RGPN0000XXXX

Accessory for
Recintha® Giglio

POSTS

FLAT BAR POST
80x8 mm

- 80x8 mm flat bar post for grating panels over 2 m height
- Material: Steel S275JR hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- Available models: to be set in concrete or on base plate
- Base plate size: 150x80x8 mm, 4 holes Ø12 mm
- Provided with 3 fixing holes, one of which is for intermediate fixing

Product code
PIA808XXXX

Accessory for
Sterope®
Pleione®
Britosterope®

FLAT BAR POST
60x7 mm

- 60x7 mm flat bar post for grating panels over 2 m height
- Material: Steel S275JR hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- Available models: to be set in concrete or on base plate
- Base plate size: 130x60x7 mm, 2 holes Ø12 mm
- Provided with 2 fixing holes; for H 1986 mm panels, post is equipped with an extra central hole for intermediate fixing

Product code
PIA607XXXX

Accessory for
Sterope®
Pleione®
Britosterope®
Acumina®
Celeno®

ANTICLEA POST
Ø50 mm / Ø60 mm

- Ø50 mm round post, thickness 2 mm for panel height from 1000 to 1500 mm
- Ø60 mm round post, thickness 2 mm for panel height from 1800 to 2000 mm
- Material: Steel S235JR hot-dip galvanized steel according to UNI EN ISO 1462; polyester powder coated finish also available
- Available models: to be set in concrete or on base plate
- Base plate size 130x60x7 mm, 2 holes Ø12 mm (round post Ø 50 mm); Base plate size 150x80x8 mm, 4 holes Ø12 mm (round post Ø 60 mm)
- Slot provided for fixing straight fence sections or corners

P. code Ø50
PIA50XXXX

P. code Ø60
PIA60XXXX

Accessory for
Anticlea®

CUSTOM MADE POSTS FOR SPECIFIC PROJECTS

- Post with different profile can also be provided for specifi requirements

Product code for grating fences
PIASPEC....

Product code for mesh fences
RCPNSPEC....

Accessory for
all fences (excluding DEFENDER)

ASSEMBLY SYSTEMS

MP UNIVERSAL CLIP SQUARE POST
Fixing systems - Post 60x60 mm

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

Product code
49001023INOX

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® 202
Recintha® P.G.

CRAB-TYPE CLIP ROUND POST
Fixing systems - Post Ø40 mm

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

Product code
GRANCHIOXXX

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® P.G.
Recintha® Giglio

HIDDEN PIN
Fixing systems

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

Product code
SPINETTANTICZ

Accessory for
Anticlea®

INTERMEDIATE FASTENER
Components

- Optional fixing bracked 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 or COR-TEN
- Polyester powder coated on demand

Product code
ATTINXXXX...

Accessory for
Sterope®
Pleione®
Britosterope®

STRAIGHT BRACKET
Components

- Bracket to joint on site cut to size grating fence panel to post
- Material: electro-galvanized finish or COR-TEN
- Polyester powder coated on demand

Product code
SQUTELX...

Accessory for
Sterope®
Pleione®
Britosterope®

CORNER BRACKET
Components

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

P. code R
SQUTEL45DXXXX

P. code L
SQUTEL45SXXXX

Accessory for
Sterope®
Pleione®
Britosterope®

ASSEMBLY SYSTEMS

MESH CLIP
Fixing systems

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

Product code
MESHCLIPX...

Accessory for
Recintha® Safety

FENCING ACCESSORIES

ANTI-INTRUSION SPIKES
Fixing systems

- Optional ant-intrusion accessory to fix on top of grating fences
- Lenght 1992 mm - H 55 mm approximately
- Hot-dip galvanized finish according to UNI EN ISO 1461 norm
- Polyester powder coated on demand

Product code Galvanized
KITANTZ

Product code Coated
KITANTZV

Accessory for
Sterope®
Pleione®
Britosterope®

INCLINED EXTENSION FOR ALL SQUARE, RECTANGULAR AND OMEGA POSTS
Components - L 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
- Polyester powder coated on demand
- Suitable for posts: 60x60 mm square tube, 60x40 mm and 120x60 mm Omega sections

Product code
RCPNOFFENDXXX

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® Safety

ASSEMBLY SYSTEMS

TTQST SCREW+SECURITY BOLT
M6x20 SS screw - M6 SS bolt

Product code
BULANT0620INOX

Accessory for
Recintha® Stadium

TTQST SCREW+SECURITY BOLT
M6x35 SS screw - M6 SS bolt

Product code
BULANT0635INOX

Accessory for
Recintha® Safety
Recintha® Stadium
Recintha® 202

TTQST SCREW+SECURITY BOLT
M8x20 SS screw - M8 SS bolt

Product code
BULANT0820INOX

Accessory for
Recintha® Stadium

TBEI SCREW+KNURLED FLANGED BOLT
M8x20 Nerinox screw - M8 SS bolt

Product code
NOT SOLD SEPARATELY

Accessory for
Recintha® Giglio

TTQST SCREW+SECURITY BOLT
M8x35 SS screw - M8 SS bolt

Product code
BULANT0835INOX

Accessory for
Recintha® Safety

M8X40 SCREW – ONE-WAY SCREWDRIVER
M8x40 SS screw

Product code
VIT0840SUNINOX

Accessory for
Recintha® Safety

ASSEMBLY SYSTEMS

TTQST SCREW+SECURITY BOLT
M8x80 SS screw - M8 SS bolt

Product code
BULANT0880INOX

Accessory for
Recintha® Safety
Recintha® Stadium

TTQST SCREW+SECURITY BOLT (L)
M10x30 SS screw - M10 SS bolt

Product code
BULANT1030INOX

Accessory for
Acumina®
Celeno®
Sterope®
Pleione®
Britosterope®
Talia® Ventus
Talia® Ventus Screen
TaliaAlive

HEXAGON HEAD SCREW+HEXAGON BOLT (R)
M10x30 SS screw - M10 SS bolt

Product code
BUL1030INOX

Accessory for
Acumina®
Celeno®
Sterope®
Pleione®
Britosterope®
Talia® Ventus
Talia® Ventus Screen
TaliaAlive

ACCESSORIES

ALARM SYSTEMS

MACS SENSORS
MEMS sensor chain with single screw fixing system

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® 202
Recintha® Safety
Sterope®
Pleione®
Britosterope®
Talia® Ventus
Talia® Ventus Screen
TaliAlive

CAPS

SQUARE CAP
60x60 mm

- The cap fully seals off the post, preventing water infiltration
- Material: Moplen

Product code
RCAC00000006

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® 202
Recintha® PG

ROUND CAP
Ø50 mm / Ø60 mm

- The cap fully seals off the post, preventing water infiltration
- Material: Moplen

P. code Ø50
TAPPIATUBO50

P. code Ø60
TAPPIATUBO60

Accessory for
Anticlea®

ROUND CAP
Ø40 mm

- The cap fully seals off the post, preventing water infiltration
- Material: Moplen

Product code
RCAC00000026

Accessory for
Recintha® N/L
Recintha® N/L Young
Recintha® P.G.

RECTANGULAR CAP
80x60 mm / 120x60 mm

- The cap fully seals off the post, preventing water infiltration
- Material: Moplen

Product code cap 80
RCAC00000008

Product code cap 120
RCAC00000007

Accessory for
Recintha® Safety

OMEGA POST CAP
60x40 mm / 120x60 mm

- Omega post cap in pre-galvanized and painted steel

Product code Omega 60
TAPPO40LAM2V

Product code Omega 120
TAPPOLAM2V

Accessory for
Recintha® 202
Recintha® Safety

RECINTHA® ACCESSORIES

"U" SECTION PROFILE
35x50x4 mm

- “U” section profile used on Recintha® Stadium upper part to strengthen the system
- Material: hot-dip galvanized and polyeste powder coated finish

Product code
RCCU45035XXXX

Accessory for
Recintha® Stadium

POST/PROFILE FIXING BRACKET

- Recintha® Stadium accessory
- Using for fixing the U section profile to the Omega post
- Material: hot-dip galvanized and polyeste powder coated finish

Product code
RCSQ520014X

Accessory for
Recintha® Stadium

POST/PANEL FIXING CLIPS

- Recintha® Stadium accessory
- Using for fixing the panel to the U section profile
- Material: hot-dip galvanized and polyeste powder coated finish

Product code
RCSQ03150097X

Accessory for
Recintha® Stadium

RAILING BARS
Top and bottom

- Recintha® Safety “U” section profile optional accessories
- Makes the 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 polyeste powder coated finish
- 32x16x32x2 mm U-shaped profile predrilled to fix it to the panel

Product code
RCOM303016V

Accessory for
Recintha® Safety

HANDRAIL

- To hide panel spikes, making Recintha® N/L short sizes suitable in playgrounds
- Lenght 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 polyeste powder coated finish

Product code
RCCM00402000

Accessory for
Recintha® P.G.

HANDRAIL JOINT/CORNER CONNECTION

- Recintha® P.G. accessory providing continuity in curved or straight handrail section
- Material Moplen

P. code Joint
RCAC00000003

P. code Corner
RCAC00000025

Accessory for
Recintha® P.G.

DEFENDER ACCESSORIES

GATE KIT

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

Product code
DFKTBS00000010

Accessory for
Defender HD Plus
Defender City

PEDESTRIAN GATE

- Accessory for Defender HD PLUS system
- Gives access to pedestrians in area where temporary fencing system is used
- Overall width 1000 mm - height 2000 mm
- Made of shaped 40 mm tubular profile with welded mesh
- Material: pre-galvanized

Product code
DFCHBS20001000

Accessory for
Defender HD Plus
Defender City

VEHICULAR GATE

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

Product code
DFCHBS20002200

Accessory for
Defender HD Plus
Defender City

SECURITY JOINTS

- Optional accessory used to join two adjacent panels for enhanced perimeter security

Product code
DFACBS00000001

Accessory for
Defender HD Plus
Defender Marathon
Defender City

WIND BRACE

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

Product code
DFST00001700

Accessory for
Defender HD Plus
Defender City

CONCRETE BLOCKS
Ø38 mm and Ø40 mm holes

- Base for Defender HD PLUS system installation provided with 6 holes Ø42 mm
- Size 700x190 mm H 130 mm
- Approximate weight 30 Kg
- Made of concrete with steel reinforcement

Product code
DFBS00000001C

Accessory for
Defender HD Plus
Defender Marathon
Defender City

DEFENDER ACCESSORIES

ABS PLASTIC BLOCKS
Ø38 mm and Ø40 mm holes

- Base for Defender HD PLUS system installation provided with 6 holes Ø42 mm
- Size 660x240 mm H 100 mm
- Approximate weight 30 Kg
- Material: high-visibility plastic coated concrete (RAL 2004)

Product code
DFBS00000002P

Accessory for
Defender HD Plus
Defender Marathon
Defender City

WHEEL KIT

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

Product code
DFACBS00000005

Accessory for
Defender HD Plus
Defender City

GRATING ACCESSORIES

AGLAIA FIXING CLIP
Top fixing clip

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

Product code
GAN#XXXXXSOPZ

Accessory for
All gratings

AGLAIA FIXING CLIP
Bottom fixing clip

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

Product code
GAN#XXXXXSOTZ

Accessory for
All gratings

CONNECTION CLIPS

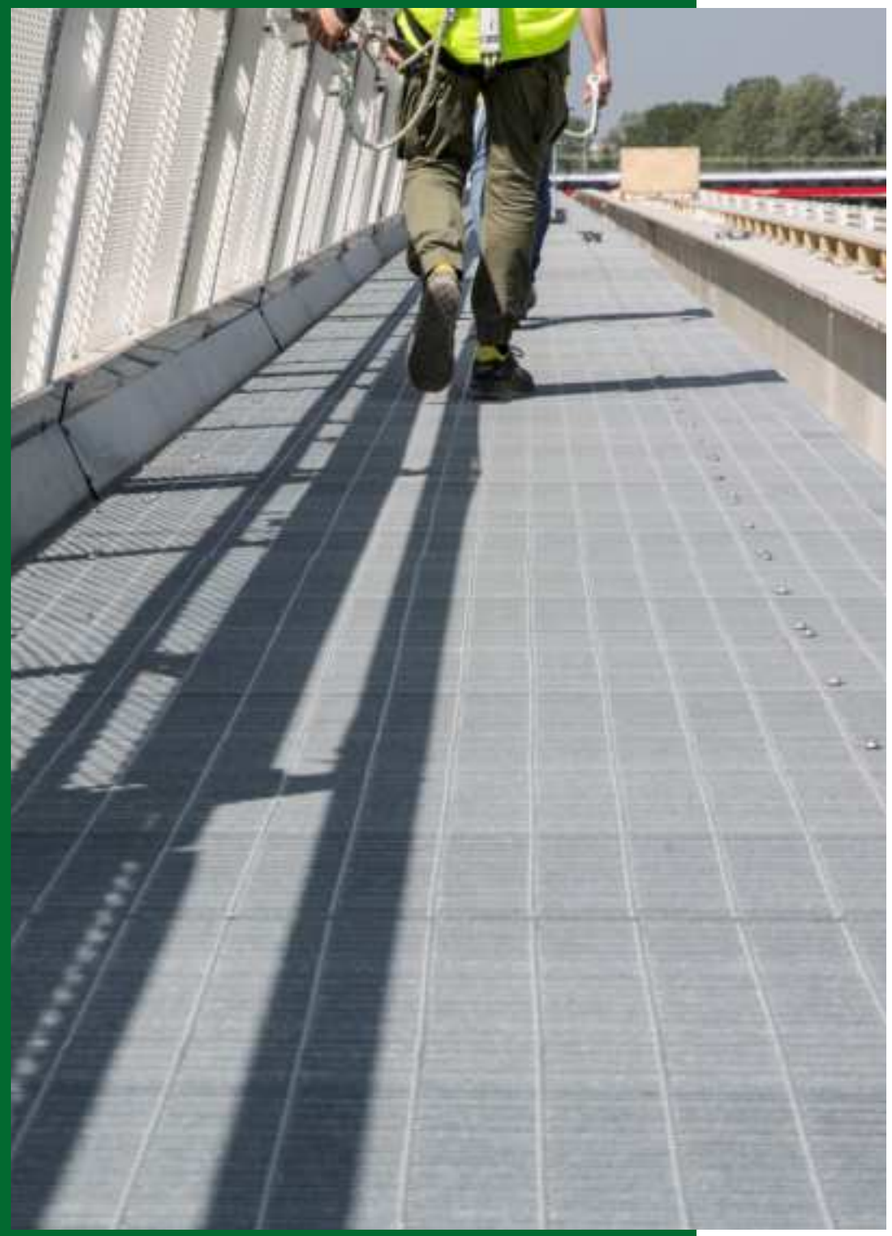
- Accessory for connecting adjacent horizontal grating panels. Available for mesh size 11-15 mm for bottom fixing only and for mesh sizes 22-25 mm, 30-34 mm for both top and bottom fixing

P. code top fixing
GANCO#XXXXXSOPZ

P. code bottom fixing
GANCO#XXXXXSOTZ

Accessory for
All gratings

APPENDIX



SECTION INDEX

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TALIA® WIND RESISTANCE FORM **P. 108**

Talia® Ventus - resistance to wind

II

LOADING CAPACITY

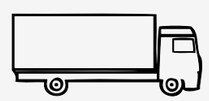
CLASS 1: DENSE CROWD (PEDESTRIAN FLOW) - UNI 11002-1
- Italian Ministerial Decree dated 14 January 2008 - 3.1.4 Category E
- Dynamic load 600 daN/m²
- Made of S235JR steel | Sigma yield = 23,5 daN/mm² | Comparison: sigma = 22,38 daN/mm²
- Max. deflection 5 mm
- Max. deflection 1/200 of clear opening

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 | Comparison: sigma = 22,38 daN/mm²
- Max. deflection 5 mm
- Max. deflection 1/200 of clear opening

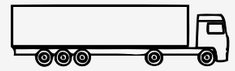
BEARING BAR		CLASS 1 - BEARING BAR CENTRES DISTANCE								CLASS 2 - BEARING BAR CENTRES DISTANCE							
		11	15	22	25	30	34	44	66	11	15	22	25	30	34	44	66
h x s mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	clear opening	1129	1045	933	894	842	807	741	633	272	231	197	187	168	156	143	129
	rise	5,00	5,00	4,65	4,46	4,21	4,02	3,70	2,96	0,54	0,39	0,28	0,26	0,21	0,18	0,15	0,12
25 x 2	clear opening	1335	1235	1123	1087	1039	1007	926	792	369	305	252	238	210	195	179	162
	rise	5,00	5,00	5,00	5,00	5,00	5,00	4,62	3,71	0,77	0,54	0,37	0,33	0,26	0,22	0,19	0,15
30 x 2	clear opening	1531	1417	1287	1247	1191	1154	1082	950	488	395	320	298	259	237	216	194
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,44	1,09	0,73	0,49	0,43	0,33	0,27	0,23	0,18
40 x 2	clear opening	1900	1758	1597	1547	1478	1432	1343	1214	790	625	491	453	383	345	306	268
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	2,05	1,31	0,83	0,71	0,52	0,42	0,34	0,26
25 x 3	clear opening	1478	1367	1242	1203	1150	1114	1045	926	504	407	329	307	265	243	221	198
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,62	1,39	0,93	0,62	0,54	0,41	0,35	0,29	0,23
30 x 3	clear opening	1694	1568	1425	1380	1318	1278	1198	1082	682	543	430	398	339	306	274	242
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	2,06	1,34	0,86	0,74	0,55	0,45	0,36	0,29
40 x 3	clear opening	2102	1945	1768	1712	1636	1585	1486	1343	1136	887	687	629	524	467	410	353
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,13	2,56	1,57	1,33	0,94	0,75	0,59	0,44
50 x 3	clear opening	2485	2300	2090	2024	1934	1874	1757	1588	1510	1330	1017	928	763	674	584	495
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,48	2,66	2,24	1,53	1,21	0,92	0,67
60 x 3	clear opening	2850	2637	2396	2321	2217	2149	2015	1821	1811	1653	1421	1292	1056	927	798	669
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,24	3,53	2,39	1,86	1,39	0,99
70 x 3	clear opening	3199	2960	2690	2605	2489	2412	2262	2044	2111	1928	1748	1690	1401	1225	1050	874
	rise	5,00	5,00	5,00	4,99	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,54	2,73	2,02	1,42
80 x 3	clear opening	3536	3272	2973	2880	2751	2667	2500	2259	2412	2202	1997	1930	1794	1570	1341	1112
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,86	2,84	1,98
30 x 4	clear opening	1821	1685	1531	1483	1417	1373	1287	1163	877	690	540	497	418	375	332	289
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,34	2,11	1,32	1,13	0,81	0,66	0,52	0,40
40 x 4	clear opening	2259	2090	1900	1840	1758	1704	1597	1443	1331	1150	883	806	666	590	513	437
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,22	2,54	2,13	1,48	1,18	0,90	0,66
50 x 4	clear opening	2671	2471	2246	2175	2078	2014	1888	1706	1661	1517	1323	1204	985	865	746	627
	rise	5,00	4,99	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	4,43	3,69	2,51	1,95	1,47	1,06
60 x 4	clear opening	3062	2834	2575	2494	2383	2309	2165	1956	1992	1819	1650	1595	1374	1202	1031	859
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	3,97	3,07	2,28	1,61
70 x 4	clear opening	3437	3181	2890	2800	2675	2592	2430	2196	2323	2121	1924	1859	1728	1601	1367	1133
	rise	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	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 | Comparison: sigma = 22,38 daN/mm²
- Max. deflection 5 mm
- Max. deflection 1/200 of clear opening



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 45000 kg
- Made of S235JR steel | Sigma yield = 23,5 daN/mm² | Comparison: sigma = 22,38 daN/mm²
- Max. deflection 5 mm
- Max. deflection 1/200 of clear opening

BEARING BAR		CLASS 3 - BEARING BAR CENTRES DISTANCE								CLASS 4 - BEARING BAR CENTRES DISTANCE							
		11	15	22	25	30	34	44	66	11	15	22	25	30	34	44	66
h x s mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	clear opening	205	176	150	142	129	120	110	93	159	138	115	109	100	93	82	70
	rise	0,31	0,23	0,17	0,15	0,12	0,11	0,09	0,06	0,19	0,14	0,10	0,09	0,07	0,06	0,05	0,04
25 x 2	clear opening	264	222	187	177	162	150	138	117	199	173	144	136	125	116	103	88
	rise	0,41	0,29	0,21	0,18	0,15	0,13	0,11	0,08	0,23	0,18	0,12	0,11	0,09	0,08	0,06	0,05
30 x 2	clear opening	321	276	227	213	194	180	165	140	239	208	173	164	150	139	124	106
	rise	0,51	0,37	0,25	0,22	0,18	0,16	0,13	0,10	0,28	0,21	0,15	0,13	0,11	0,09	0,08	0,06
40 x 2	clear opening	430	374	323	302	268	245	222	187	329	278	231	218	201	186	165	141
	rise	0,68	0,52	0,39	0,33	0,26	0,22	0,18	0,13	0,40	0,28	0,20	0,17	0,15	0,13	0,10	0,07
25 x 3	clear opening	328	283	232	218	198	184	169	143	244	212	177	167	154	142	126	108
	rise	0,63	0,47	0,32	0,28	0,23	0,20	0,17	0,12	0,35	0,27	0,19	0,16	0,14	0,12	0,09	0,07
30 x 3	clear opening	394	343	290	270	242	222	202	172	297	254	212	201	184	171	152	129
	rise	0,77	0,58	0,41	0,35	0,29	0,24	0,20	0,15	0,43	0,32	0,22	0,20	0,17	0,14	0,11	0,08
40 x 3	clear opening	545	462	395	375	336	313	283	232	404	352	285	268	246	228	202	173
	rise	1,08	0,79	0,58	0,52	0,42	0,36	0,29	0,20	0,60	0,46	0,30	0,26	0,22	0,19	0,15	0,11
50 x 3	clear opening	739	610	505	476	421	391	359	306	505	440	376	349	314	288	253	216
	rise	1,55	1,07	0,75	0,67	0,52	0,45	0,38	0,27	0,75	0,57	0,41	0,35	0,29	0,24	0,19	0,14
60 x 3	clear opening	977	790	640	597	518	475	432	389	606	528	452	433	395	360	310	259
	rise	2,19	1,46	0,98	0,86	0,65	0,55	0,46	0,37	0,90	0,69	0,50	0,46	0,38	0,31	0,24	0,16
70 x 3	clear opening	1257	1004	799	741	633	575	516	458	717	616	528	505	460	434	376	308
	rise	3,03	1,98	1,28	1,11	0,82	0,69	0,56	0,44	1,08	0,80	0,59	0,54	0,45	0,40	0,29	0,20
80 x 3	clear opening	1581	1250	983	906	766	690	613	537	845	713	603	577	526	496	437	364
	rise	4,11	2,62	1,66	1,42	1,04	0,85	0,68	0,53	1,30	0,93	0,67	0,61	0,51	0,45	0,35	0,24
30 x 4	clear opening	459	396	342	325	289	263	237	199	350	298	245	232	213	197	175	149
	rise	1,04	0,77	0,57	0,52	0,40	0,34	0,28	0,20	0,60	0,44	0,29	0,27	0,22	0,19	0,15	0,11
40 x 4	clear opening	660	550	461	435	388	361	332	276	467	406	339	316	286	264	234	199
	rise	1,56	1,10	0,78	0,70	0,56	0,48	0,41	0,28	0,81	0,61	0,42	0,36	0,30	0,26	0,20	0,15
50 x 4	clear opening	919	747	607	568	495	455	415	374	583	508	435	416	378	342	296	249
	rise	2,34	1,58	1,06	0,94	0,72	0,61	0,51	0,39	1,00	0,76	0,56	0,51	0,41	0,34	0,26	0,18
60 x 4	clear opening	1236	987	787	729	624	567	510	453	709	610	522	500	456	430	371	304
	rise	3,42	2,23	1,45	1,26	0,93	0,78	0,63	0,50	1,23	0,92	0,67	0,62	0,51	0,46	0,33	0,23
70 x 4	clear opening	1610	1272	999	921	778	700	622	544	856	722	609	583	532	502	441	369
	rise	4,86	3,10	1,96	1,68	1,22	1,00	0,80	0,62	1,52	1,09	0,78	0,72	0,60	0,53	0,41	0,28

The table shows the maximum clear opening for which the Load Class is guaranteed

STAIR TREAD LOADING CAPACITY WITH POINT LOAD

- Made of S235JR steel,
  Sigma yield = 23,5 daN/mm^2,
  Comparison: sigma = 22,38 daN/mm^2
- Max. deflection 5 mm
- Max. deflection 1/200 of clear opening

COLOURS
Red: secondary private use, 100 daN on Ø120 mm circular imprint
Green: main private use, 100 daN on Ø120 mm circular imprint
Black: public use, 200 daN on Ø120 mm circular imprint

BEARING BAR	BEARING BAR CENTRES DISTANCE - MAXIMUM CLEAR SPAN BETWEEN THE SUPPORTS									
	11	15	17	22	25	30	33	34	44	66
h x s mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
20 x 2	1097	1040	984	872	748	737	622	622	611	481
25 x 2	1200	1200	1200	1200	1145	1129	951	951	935	735
30 x 2	1200	1200	1200	1200	1200	1200	1200	1200	1200	1038
35 x 2	1290	1233	1200	1200	1200	1200	1200	1200	1200	1200
40 x 2	1436	1368	1330	1289	1239	1235	1200	1200	1200	1200
45 x 2	1583	1506	1462	1414	1357	1352	1294	1294	1288	1200
50 x 2	1733	1645	1595	1541	1476	1471	1405	1405	1398	1279
25 x 3	1200	1200	1200	1200	1200	1200	1200	1200	1200	1073
30 x 3	1272	1216	1200	1200	1200	1200	1200	1200	1200	1200
35 x 3	1439	1371	1333	1291	1242	1238	1200	1200	1200	1200
40 x 3	1609	1530	1484	1436	1378	1373	1313	1313	1308	1233
45 x 3	1780	1690	1638	1582	1515	1510	1441	1441	1435	1349
50 x 3	1800	1800	1793	1730	1655	1648	1571	1571	1563	1466
60 x 3	2013	1919	1865	1807	1800	1800	1800	1800	1800	1702
70 x 3	2281	2168	2103	2033	1950	1942	1857	1857	1849	1800
80 x 3	2486	2400	2346	2264	2166	2157	2057	2057	2047	1921
90 x 3	2724	2593	2518	2438	2385	2375	2260	2260	2249	2103
100 x 3	2966	2818	2733	2641	2532	2522	2410	2410	2400	2288
30 x 4	1370	1307	1271	1232	1200	1200	1200	1200	1200	1200
40 x 4	1746	1658	1607	1552	1487	1482	1415	1415	1408	1324
45 x 4	1800	1800	1778	1715	1641	1634	1558	1558	1550	1454
50 x 4	1882	1800	1800	1800	1796	1788	1702	1702	1693	1584
60 x 4	2175	2069	2009	1944	1866	1859	1800	1800	1800	1800
70 x 4	2417	2347	2275	2196	2103	2095	1999	1999	1990	1869

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

EMPTY/FULL RATIO FOR GRATING PANELS

In accordance with section 3.9.1 of Italian Ministerial Decree dated 01.02.1986 (Fire Safety standard), natural ventilation openings in parking garages must have a surface of no less than 1/25 of the total floor surface. Therefore, when using grating panels for covering ventilation openings, it is necessary to consider the empty/full ratio of the different types of grating, as shown in the following tables.

GES ELECTRO-WELDED GRATING

BEARING BAR THIKNESS	CROSS BAR THIKNESS	MESH										
		11x76	15x76	17x76	22x38	22x76	25x24	25x76	30x50	30x100	34x38	34x76
mm	mm	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 THIKNESS	CROSS BAR THIKNESS	MESH									
		11x66	15x66	22x22	22x66	25x66	33x33	33x66	44x44	66x11	66x33
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
2	2	0,79	0,84	0,83	0,88	0,89	0,88	0,91	0,91	0,79	0,91
3	2	0,71	0,78	0,79	0,84	0,85	0,85	0,88	0,89	0,78	0,90
4	3	0,61	0,70	0,71	0,78	0,80	0,80	0,84	0,85	0,68	0,85
5	3	0,52	0,64	0,67	0,74	0,76	0,77	0,81	0,83	0,67	0,84

FORKLIFT TRUCK LOAD CAPACITY

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

ACTIONS INDUCED BY FORKLIFT TRUCKS

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

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

CHART 6.5 - Forklift truck dimensions according to FL classes

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

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

CHART 6.6 - Forklift truck dimensions according to FL classes

3. The axial static vertical load $\mathbf{Q}_x$ should be increased by the **φ** dynamic coefficient, using the equation (6.3)
$\mathbf{Q}_{x,dyn} = \boldsymbol{\varphi}\, \mathbf{Q}_x$
where:
$\mathbf{Q}_{x,dyn}$: is the characteristic dynamic value;
φ is the dynamic amplification coefficient;
$\mathbf{Q}_x$ is the characteristic static value.

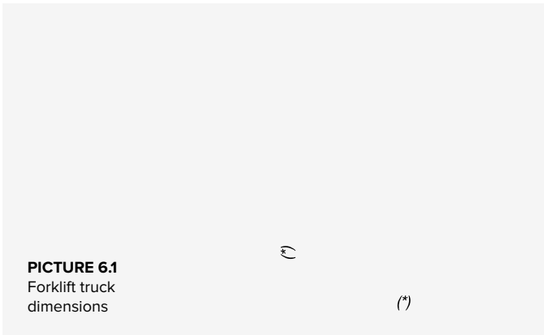
4. The dynamic coefficient **φ** for forklift trucks takes into account the inertial effects caused by acceleration and deceleration of the load carried, and should be set equal to:

φ = 1,40 for forklift trucks on tires
φ = 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 $\mathbf{Q}_x$ and $\mathbf{Q}_{x,dyn}$ of a forklift truck should be positioned according to figure 6.1.

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



PICTURE 6.1
Forklift truck dimensions

Note: dynamic coefficients shall not be applied.
(*) see UNI resolution dated 21/10/2008

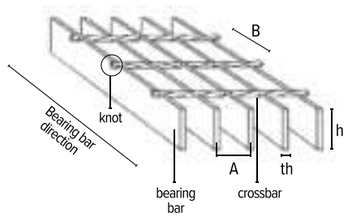
*** UNI resolution dated 21/10/2008 - "it is believed that the requirements of Eurocode 1 (UNI EN 1991-1-1) concerning the imprints of forklift trucks are not applicable to grating panels, since the vertical load distributes differently on an even base (e.g. concrete floor) and on an uneven base (grating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

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

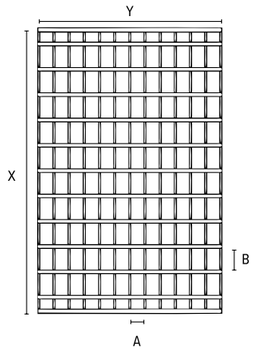
The values have been calculated on the basis of the expected loads taken from:
- The capacity table under subsection 6.1 herein, with imprint pursuant to said UNI resolution
- The calculations take into account the more unfavourable direction of transit
- Elastic deflection 5 mm ≤ 1/200 of the clear opening
- Unitary yield stress 23.5 daN/mm^2
- SR35JR steel

GLOSSARY

Electrofused grating (GES)

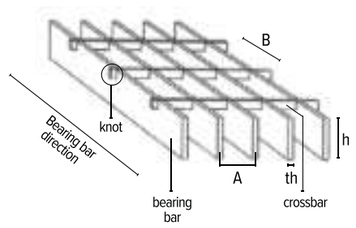


Pic. 1A

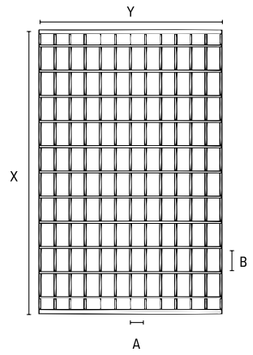


Pic. 2A

Press-locked grating (GP)

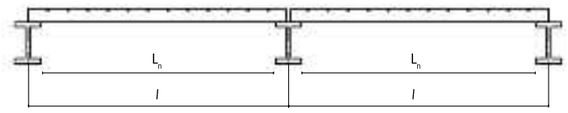


Pic. 1B

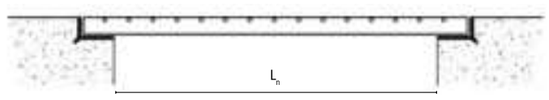


Pic. 2B

Panels on two adjacent supports



Panels on frame



GLOSSARY

THE UNI 11002-1 NORM STATE AS FOLLOWS:

ELECTROFUSED AND/OR PRESS LOCKED GRATING
Steel net structure made by flat and crossbars orthogonally connected (pic. 1A and 2A, 1B and 2B).
The 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 (HXS)
They are flat steel elements parallel among them, supporting the load acting on the grating. The bearing bars are determined by the size (h) and the thickness (s). (pic. 1A and 1B this paragraph)

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

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

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

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

-

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

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

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

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

UNIFORMLY DISTRIBUTED LOAD
Load uniformly spread out on the whole panel surface.

LOAD CONCENTRATED ON IMPRINT
Load affecting the imprint area only.

DEFLECTION (f)
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.

TALIA® VENTUS - RESISTANCE TO WIND

Talia® Ventus is the only lamellar fence certified for resistance to wind. The technical office requires the following data to make an accurate estimate based on specific needs.

1. GEOGRAPHICAL AREA

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

2. HEIGHT ABOVE SEA LEVEL

In metres, max. 1500 m

3. FENCING HEIGHT REQUIRED

Talia® is available in heights of 1 m to 2 m poximately

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

NOTES

NOTES

NOTES

DEFIM ORSOGRIL
STEEL & STYLE

We are part of:
FERALPI GROUP

DEFIM ORSOGRIL S.p.A.

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