

Design and functionality









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GRATING

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



CE CE Certified NO. 0948-CPR-0287

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POTISSIMUM® FOR RESIDENTIAL APPLICATIONS

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Thanks to its special manufacturing process, POTISSIMUM® residential electro-welded steel grating system offers exceptional sturdiness combined with a great aesthetic value. With its wide range of ready from stock mesh sizes, it can respond to every need and situation, mainly for residential buildings.

Tailored, framed and shaped grating panels are realized to complete from the simplest, to the more complex project with the support of our unique in-house technical office, assisting the customers at the design stage to provide the most economic and appropriate solutions.

Both the standard semi-finished grating mats called GEA, sized 6100x1000 mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).

TECHNICAL DETAILS

Material

> S235JR UNI EN 10025 Steel

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

Painting

> RAL colours

Accessories

> Fixing clips > see page 67

APPLICATIONS

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

PRODUCT SPECIFICATIONS

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

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

Bearing flat bar mm: ...

Round cross bar Ø mm: ...

Edges framing flat bar, ... mm with continuous groove, forge-welded to the grating (on regular squared panels) Weight kg/m²: ...

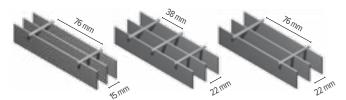
Material: S235JR UNI EN 10025 Steel Finish: hot-dip galvanizing, according to UNI EN ISO 1461

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

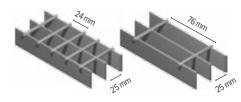
CE certified (Ref. Factory Manufacturing Control Certificate 0948-CPR-0287)



HEEL PROOF BALL PROOF



BUILDING





				HEEL PROOF	BALL	BALL PROOF		DING
BEAI BA	RING AR	CROSS BAR DIRECTION	N. bearing bars	67	47	47	41	41
Н	S	L	Mesh	15x76	22x38	22x76	25x24	25x76
mm		mm	Weight	kg/m²	kg	/m²	kg	/m²
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	-	-	-	25.0
25	3	999		38.1	-	-	-	23.6
30	3	999		45.7	-	32.2*	-	28.2
40	3	999		61.0	-	-	-	37.6
50	3	999		76.2	-	-	-	46.9
60	3	999		92.4	-	-	-	57.1
70	3	999		107.8	-	-	-	66.5
80	3	999		123.2	-	-	-	-
40	4	1000		-	-	57.6	-	50.4
50	4	1000		-	-	72.0		63.0
60	4	1000		-	-	87.2	-	76.3
70	4	1000		•	-	101.8	-	89.0

GEA MAT SIZE 6100x1000 mm, UNFRAMED - SELF COLOURED

offered also with serrated bearing bar

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





Potissimum[®] Industry

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Thanks to its special manufacturing process, POTISSIMUM® INDUSTRIAL electro-welded steel grating system offers exceptional sturdiness combined with a great versatility. With its wide range of ready from stock mesh sizes, it can respond to every need and situation, mainly for industrial applications.

Tailored, framed and shaped grating panels are realized to complete from the simplest, to the more complex project with the support of our unique in-house technical office, assisting the customers at the design stage to provide the most economic and appropriate solutions.

Both the standard semi-finished grating mats called GEA, sized 6100x1000 mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).

TECHNICAL DETAILS

Material

> S235JR UNI EN 10025 Steel

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

Painting

> RAL colours

Accessories

> Fixing clips > see page. 67

APPLICATIONS

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

PRODUCT SPECIFICATIONS

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

Mesh mm: 30/34 x ...

Bearing flat bar mm: ...

Twisted square cross bar mm: ...

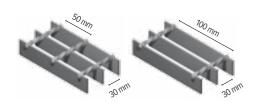
Edges framing flat bar, ... mm with continuous groove, forge-welded to the grating (on regular squared panels)
Weight kg/m²: ...

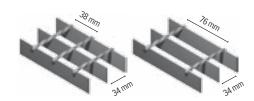
Material: S235JR UNI EN 10025 Steel Finish: hot-dip galvanizing, according to UNI EN ISO 1461

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

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



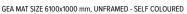




BEARING BAR		DIRECTION	N. bearing bars	34*	34*	30*	30*	
н		L	Mesh	35x50	30x100	34x38	34x76	
mm		mm	Weight	kg/m²	kg/m²	kg/m²	kg/m²	
25	2	998		-	-	14.0	12.4	
30	2	998		-	-	16.2	14.6	
40	2	998		-	-	20.7	-	
25	3	999		21*	19.8*	19.6	18	
30	3	999		24.9*	23.7*	23.1*	21.4	
40	3	999		32.6	31.4	29.9*	28.3	
50	3	999		-	-	36.7	35.1	
40	4	1000		43	41.8	39.1	37.4	
25	5	1000		34.4*	32.4*	-	-	
30	5	1000		40.9*	38.9*	-	-	
32	5	1000		43.5*	41.5*	-	-	







^{*}cross bars twisted

offered also with serrated bearing bar

BARROTTO ANTIQUUM®

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Thanks to the peculiar anti-slip notched bearing bars and its unique aesthetic appearance, the BARROTTO ANTIQUUM® electrowelded grating represents a natural practical and quality choice. Its handcrafted look is best suited to down town applications. DEFIM ORSOGRIL service includes the possibility to produce custom-made panels, framed and shaped, with the technical support of its unique in-house design office that is one of its kind in the industry. Both the standard semi-finished grating mats called GEA, sized 6100x1000 mm and the cut-to-size panels are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).

TECHNICAL DETAILS

Material

> S235JR UNI EN 10025 Steel

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

Painting

> RAL colours

Section

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

Weight

> Unframed semi-finished self-colour material 28.6 kg/m²

Capacity load (kg)

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

ANTI-SKID to DIN 51130 - CLASS R9 BALL-PROOF to Italian Ministerial Decree no. 236 of June 14, 1989

APPLICATIONS

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

PRODUCT SPECIFICATIONS

BARROTTO ANTIQUUM® electro-welded grating - Cut-to-size framed panels

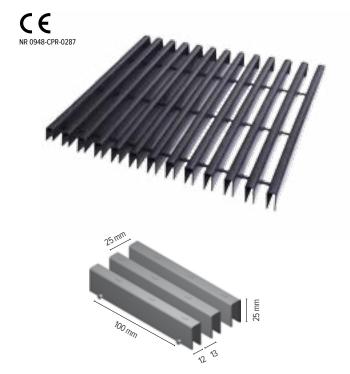
Mesh mm: 25 (empty 13 mm - full 12 mm) x 100. U profile bearing bar, sized 25x12x25x1.5 mm anti-slip grooved.

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

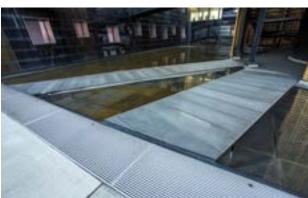
AS AN ALTERNATIVE:

Finish: micaceous grey RAL 223 polyester powder painting on hot-dip galvanized material. AGLAIA fixing clip for 15 mm mesh - bottom fixing

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









GRATING

UTILIOR®

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

TECHNICAL DETAILS

Material

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

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

Painting

> RAL colours

Accessories

> Fixing clips > see page 67

APPLICATIONS

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

PRODUCT SPECIFICATIONS

ORSOGRIL UTILIOR® press-locked grating - GP (pressed grating) Cut-to size framed panels (bearing bar - mesh). Mesh mm: ... Bearing flat bar mm: ... Flat cross bar mm: ... Edges framing flat bar... Weight kg/m²: ... Material: S235JR UNI EN 10025 Steel. Finish: hot-dip galvanizing according to UNI EN ISO 1461. AGLAIA fixing clip for ... mm mesh - bottom or top fixing





	BEARING BAR		CROSS BAR DIRECTION												
Н		Н	s	11x66	15x66	17x66	22x22	22x66	25x66	33x33	33x66	44x11	66x11	66x22	66x33
mm		mm	mm	kg/m²											
20	2			34.1	26.2	23.6	24.3	19.3	17.6	16.8	14.3	24.5	21.9	14.4	11.9
25	2			42	32.1	28.8	28.5	23.5	21.4	19.8	17.3	26.9	23.6	16.1	13.6
30	2			49.9	38	34.1	32.6	27.6	25.2	22.7	20.2	29.3	25.3	17.8	15.3
35	2			57.7	43.9	39.3	36.8	31.8	28.9	25.7	23.2	31.7	27	19.5	17.1
40	2			65.6	49.8	44.5	41	36	32.7	28.6	26.1	34	28.8	21.3	18.8
45	2	10	2	73.5	55.7	49.8	45.2	40.2	36.5	31.6	29.1	36.4	30.5	23	20.5
50	2			81.3	61.6	55	49.4	44.4	40.2	34.5	32	38.8	32.2	24.7	22.2
25	3			59.6	45	40.2	37.3	32.3	29.2	25.7	23.2	31.4	26.6	19.1	16.6
30	3			71	53.5	47.7	43.2	38.2	34.6	29.8	27.3	34.7	28.9	21.4	18.9
35	3			82.4	62	55.2	49.1	44.1	39.9	33.9	31.4	38	31.2	23.7	21.2
40	3			93.8	70.5	62.7	55.1	50.1	45.2	38	35.5	41.2	33.5	26	23.5
45	3			105.1	78.9	70.2	61	56	50.6	42.1	39.6	44.5	35.8	28.3	25.8
50	3			116.5	87.4	77.7	66.9	61.9	55.9	46.3	43.8	47.8	38.1	30.6	28.1
60	3			139.8	104.9	93.2	80.3	74.3	67	55.5	52.5	57.3	45.6	36.7	33.7
70	3	12	2	162.5	121.8	108.2	92.2	86.2	77.7	63.7	60.7	63.8	50.2	41.3	38.3
80	3			185.3	138.7	123.2	104	98	88.3	72	69	70.4	54.8	45.9	42.9
90	3			208	155.7	138.3	115.9	109.9	99	80.2	77.2	76.9	59.5	50.5	47.5
100	3			230.8	172.6	153.3	127.8	121.8	109.7	88.4	85.4	83.4	64.1	55.1	52.1
30	4			96.6	73.4	65.6	64.2	53	48.2	44.1	38.5	59.6	51.8	35.1	29.6
40	4			126.8	95.9	85.6	79.9	68.8	62.4	55	49.5	68.3	58	41.3	35.7
50	4			157.1	118.4	105.5	95.7	84.6	76.5	66	60.4	77	64.1	47.4	41.8
60	4			187.3	140.9	125.4	111.5	100.3	90.7	76.9	71.3	85.7	70.2	53.5	47.9
70	4			217.5	163.4	145.4	127.2	116.1	104.8	87.8	82.3	94.3	76.3	59.6	54
80	4	15	3	247.7	185.9	165.3	143	131.8	119	98.8	93.2	103	82.4	65.7	60.1
90	4			277.9	208.4	185.3	158.7	147.6	133.1	109.7	104.1	111.7	88.5	71.8	66.3
100	4			308.2	230.9	205.2	174.5	163.4	147.3	120.7	115.1	120.4	94.7	78	72.4
110	4			338.4	253.4	225.1	190.3	179.1	161.4	131.6	126	129.1	100.8	84.1	78.5
120	4			368.6	276	245.1	206	194.9	175.6	142.5	137	137.8	106.9	90.2	84.6
40	5			157.7	119.3	106.5	100.5	85.8	77.8	69.1	61.8	87.3	74.5	52.5	45.1
50	5			195.2	147.2	131.3	120	105.3	95.3	82.7	75.3	98.1	82.1	60.1	52.7
60	5			232.7	175.2	156	139.5	124.8	112.9	96.3	88.9	108.9	89.7	67.7	60.3
70	5			270.1	203.1	180.7	159.1	144.4	130.4	109.8	102.5	119.7	97.3	75.3	67.9
80	5	15	4	307.6	231	205.4	178.6	163.9	148	123.4	116	130.4	104.9	82.8	75.5
90	5			345.1	258.9	230.2	198.2	183.5	165.5	136.9	129.6	141.2	112.5	90.4	83.1
100	5			382.5	286.8	254.9	217.7	203	183.1	150.5	143.2	152	120.1	98	90.7
110	5			420	314.7	279.6	237.2	222.5	200.6	164.1	156.7	162.8	127.7	105.6	98.3
120	5			457.5	342.6	304.3	256.8	242.1	218.2	177.6	170.3	173.5	135.2	113.2	105.8







PRESSED GRATING - WEIGHT OF GALVANIZED FRAMED PANELS.

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

STANDARD GRATING STEPS®

Download



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

All Nuova Defim Orsogril grating steps are supplied CE marked and with the relevant Italian Protected Designation of Origin (PDO).

TECHNICAL DETAILS

Material

> S235JR UNI EN 10025 Steel

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

APPLICATIONS

- > Emergency security stairs
- > Service stairs

PRODUCT SPECIFICATIONS

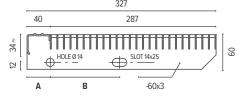
Welded ORSOGRIL GRATING STEPS to be bolted - STD. Mesh mm: ... Bearing flat bar mm: ... Round cross wire mm: ... Dimensions mm: ... Grating panel provided with a special front profile called "nosing" and two perforated side plates for bolting it to the steel stair supports. Weight kg/each: ...

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

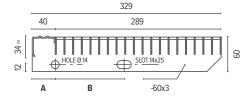
MESH BEARING DIMENSIONS DRILLING



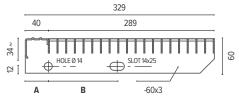
11x100 - 25x2



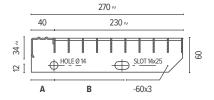
15x76 - 30x2



15x76 - 25x2



25x76 - 25x2





	MESH		BAR		ווט	MENSI	UNS	UNI N	
	Н			S	н	L	Weight	А	В
DESCRIPTION	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





[&]quot;EXODUS®" STEPS FOR SECURITY STAIRS (HEEL PROOF MESH - TYPE TO BE BOLTED).

^{*} According to the D.M. 236 dated 14 June 1989

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

Antivertigo System

Download



The no-panic ANTIVERTIGO GRATING is a patented exclusive system by Nuova Defim Orsogril. The special shaped profiles provide total

screening down, while keeping the typical airflow grating characteristics. The step designed using this grating type complies with current anti-skid norms; ANTIVERTIGO landings and walkways grating are also available upon request. For landings composition, the system foresee a starting panel provided with "nosing" and a variable number of interlocked panels to reach the desired length. The panels are joined together by a "dovetail" system between the frames. This solution grants the visual continuity between adjacent panels, hiding the junction points.

TECHNICAL DETAILS

Material

> S235JR UNI EN 10025 Steel

Coating

> Hot-dip galvanizing according to UNI EN ISO 1461

> Floors > Walkways

> Stair treads

> Mezzanines

> 18.3 kg/each, galvanized

Capacity load (kg)

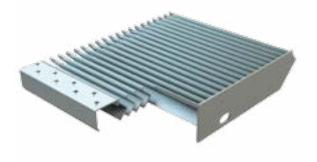
APPLICATIONS

> Stair tread load on maximum net span of 1200 mm

PRODUCT SPECIFICATIONS

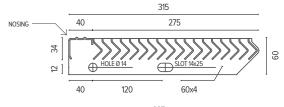
ANTIVERTIGO ORSOGRIL Stair tread for bolting Mesh mm: 15. Bearing bar mm: special V profile. Round cross bar mm: Ø 6. Dimensions mm: 1200x315 Grating panel provided with a special front profile called "nosing" and two perforated side plates for bolting it to the steel stair supports. Weight kg/ each: 17.8 galvanized. Material: S235JR UNI EN 10025 Steel.

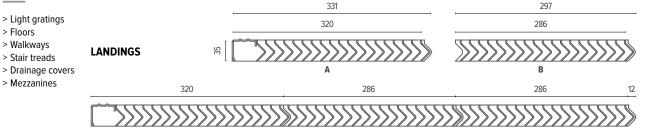
Finish: hot-dip galvanizing according to **UNI EN ISO 1461**





"NO PANIC" STEP





LANDINGS

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

A_ Starting panel with "nosing"

Dimensions Width (W): 1200 mm

Depth (D): 320 mm

Weight kg/each.

kg/each.

16.8 (self-colour) 17.8 (galvanized)

B_Standard panel

Dimensions Width (W): 1200 mm

Depth (D): 286 mm

kg/each. Weight 15.2 (self-colour)

16.2 (galvanized) kg/each.







