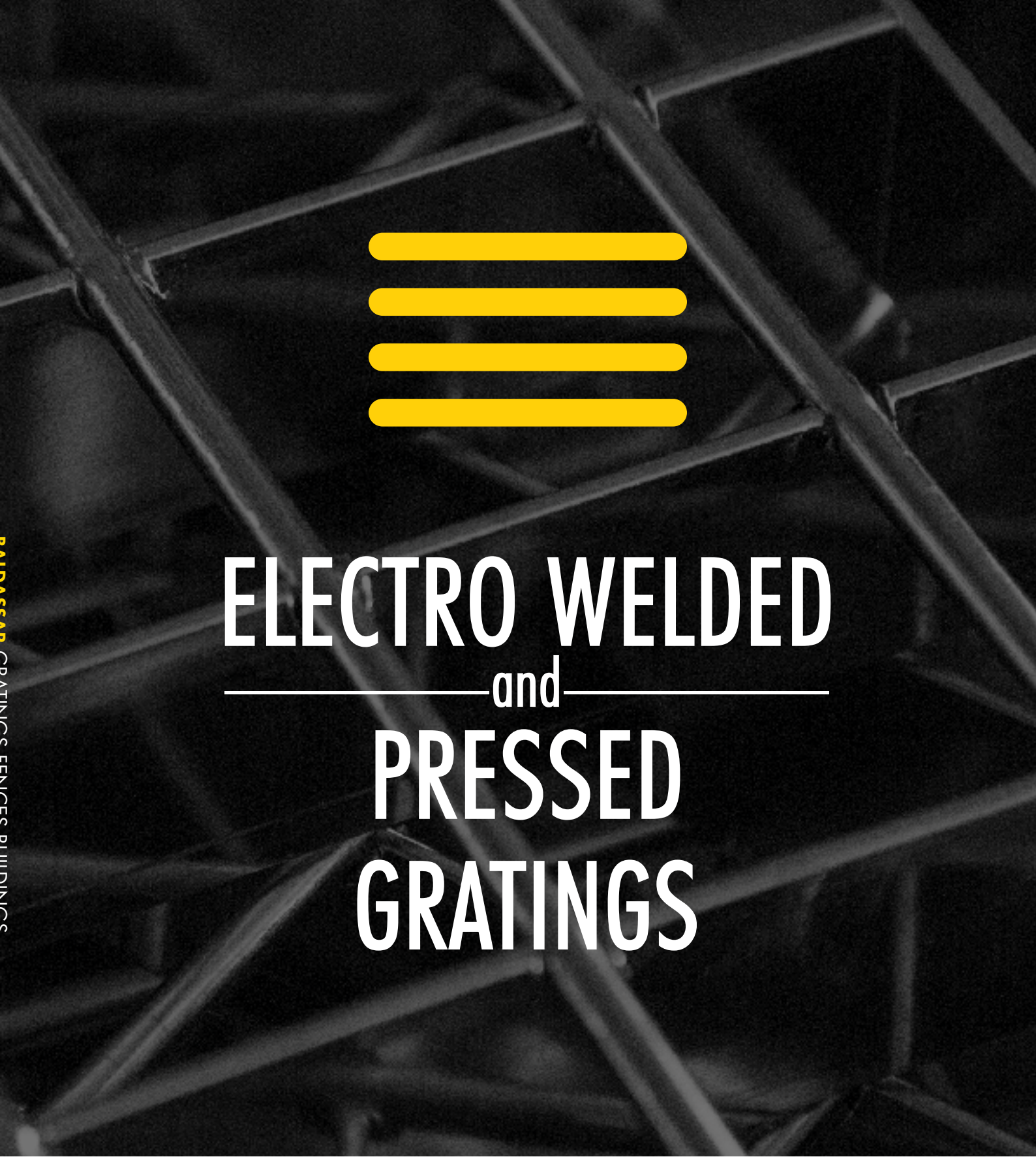


ELECTRO WELDED and PRESSED GRATINGS

BALDASSAR GRATINGS FENCES BUILDINGS

BaldaSSar

GRATINGS FENCES BUILDINGS

BaldaSSar

GRATINGS FENCES BUILDINGS

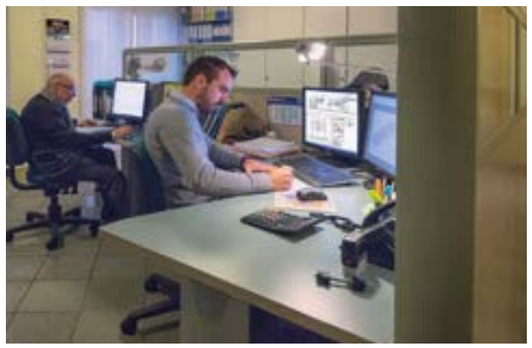
BaldaSSar

GRATINGS FENCES BUILDINGS

Baldassar headquarters are located in the municipality of Santa Lucia di Piave, in the Treviso Province and the production sites are now 4, totalling an overall surface of 50.000 square meters, 20.000 of which are covered.

Brothers Giorgio e Angelo Baldassar started a small business in the '80s, they were then producing elements for the building industry such as manhole covers, plates and grates.
In 1990, with the activity growing fast the production rapidly increased so much so that they decided to establish a company by the name of "Grigliati Baldassar Ltd.".
Besides the production of items for the building industry, thanks to the purchasing of outstanding automated machines, Baldassar started to specialize in the production of electro-welded gratings for the agricultural and offshore industries as well.
During the years and to satisfy its customers, the company decided to increase its range of products by introducing the production of industrial and private railings as well as gates marked CE and fire escapes.
The acquired experience together with a rearrangement of the production cycles and new technologically advanced equipment did transform the company from a simple producer of gratings to an industry fit to provide a complete service for the solution of the most diverse construction challenges.
Thanks to its high and certified quality, Baldassar has won throughout the years a leading position in all its working fields. The know-how of thirty years experience, its large production power, its reliability thanks to a highly specialized workforce has made it possible for the company to develop work projects of national and international significance.

SPECIALIZED TECHNICIANS



CUSTOMIZED WORK

OUR SITE PRODUCTION

AUTOMATED WAREHOUSE

COMPANY CERTIFICATIONS

CERTIFICATE **EN 1090-1**

CERTIFICATE **ISO 9001:2008**

CERTIFICATE **ISO 3834-3**

■ STANDARDS AND CERTIFICATIONS

The use of special steel types, provided with their certificates of origin and undergoing complex treatment stages (i.e. electro-welding, hot dip galvanization and powder coating), ensure the optimal quality of the gratings. Our technical department and our distribution network are always available to our customers to satisfy all their requirements.

■ RAW MATERIAL

UNI EN 10025
Hot-rolled steel products for structural works.

■ GALVANIZATION Standard UNI EN ISO 1461

Surface treatments with hot dip-galvanization on finished iron tubing and steel items.
Features and test methods.

■ BALL PROOF GRATINGS

Ministerial Degree of 14 June 1989 No. 236 Art. 4.2.2
Gratings used as flooring must come with gaps that will not involve impediments or danger as far as wheels, walking sticks and similar.

Ministerial Degree of 14 June 1989 No. 236 Art. 8.2.2
Floor gratings must be produced in a way not to let any ball bigger than 20 mm dia. go through

■ ANTI-SLIP GRATINGS

Ministerial Degree of 14 June 1989 No. 236 Art. 4.2.2
The flooring of the side walk must be anti-slip.
Possible level differences between the various elements of a flooring must be such as not to hinder the passage of a person on a wheelchair.

DIN 51130: resistance to slipping .
Determination of the resistance to slipping according to the above mentioned standard.

■ GRATINGS AND STEPS

STANDARDS UNI 11002-1
Panels and steps made of electro-welded grating and/or pressed grating. Terminology , tolerances, requirements and test methods for panels, walking floors and driveways.

STANDARD UNI 11002-2
Panels and steps made by electro-welded grating and/or pressed grating. Terminology , tolerances, requirements and test methods for steps.

STANDARD UNI 11002-3
Panels and steps made of electro-welded grating and/or pressed grating. Sampling and acceptance criteria for panels to be used as walking floors.

CONTENT

THE COMPANY

We are available any time, for any situation, thanks to our logistical organization and human approach

Automated warehouse for managing and executing every order at top speed.

A complete range of electro-welded gratings, among the most comprehensive and varied that are today available in the European market

Production flexibility to satisfy any requirement as far as style and structure.

Many decades of experience in resolving any problem be it technical or aesthetic.

Internal design department with inhouse experts utilizing the most advanced techniques.

A wide choice of products always available for immediate delivery or to carry out customized projects in the shortest time

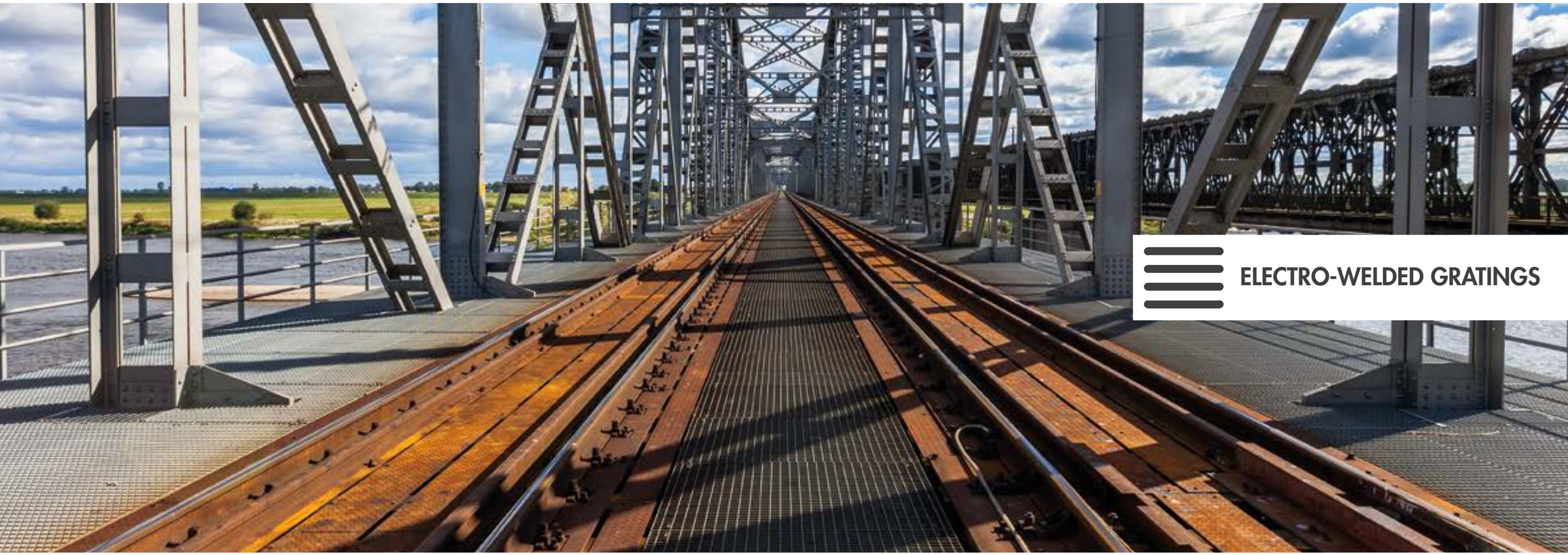
Made to measure: an entire department dedicated to the most demanding projects.

Dynamic and flexible structure work to create any possible structure with a great amount of tailor-made choices

State of the art technology to obtain the best possible quality.

Own means of transport to ensure a fast delivery always on time.

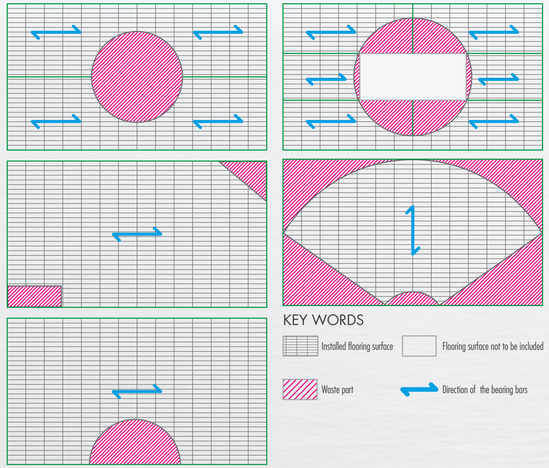
Haulage contractors to anywhere even the farthermost place.



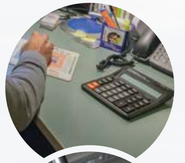
ELECTRO-WELDED GRATINGS

DESIGN ▸ PRODUCTION ▸ DELIVERY

DESIGN OF SPECIAL SHAPE GRATES waste managing when calculating an offer



ANYWHERE, IN ANY SITUATIONS



PROFESSIONALITY SINCE 1986

Thanks to the know how and to the thirty years of experience and more in the field, we have developed a unique production system in order to satisfy any possible requirement of any single client at any time during the production process. A 360° production cycle covering all working stages from start to end, from the first technical design to the actual delivery.

BaldaSSar
GRATINGS FENCES BUILDING

EXAMPLE OF THE PROGRESS IN DEVELOPING AN ORDER FOR THE OFFSHORE INDUSTRY

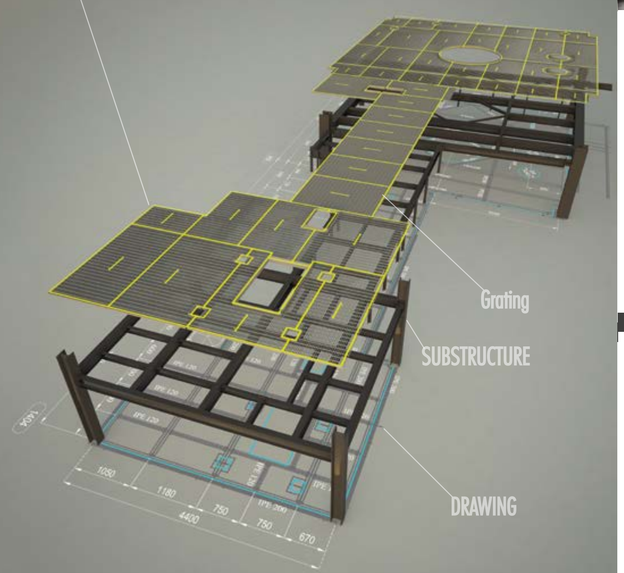
BASIC CYCLE:
1) Receiving the drawings of the metal work substructure
2) Identifying the type of grating to use, according to load and final use
3) partition of the drawing into standard width panels according to the type of material.

Design:
. Analysis and development of the technical drawings with dedicated programs
. Analysis and perspective drawing of the grating to be used
. Analysis and development of the best partition of the panels to use. Delivery of the final project to the client for approval
. Approval from the client
. Printing of approved technical drawings
. Order sent to production department

Production:
. Material cut to measure
. Customization process:
Shaping
Application of toe plate
Application of perforated bars
Application of flanges
. Bearing bar application on the customized material
. **Marking** on band bar
. Quality control of raw material
. Material to galvanization
(and eventually to coating)

Packaging and Shipping:
. Packing list (if required)
. Quality control of the finished product
. Preparation of the material for shipping
. Shipment

ARRANGEMENT OF GRATINGS




electro welding detail

ELECTRO-WELDED GRATING HORIZONTAL VERTICAL

The electro-welded grating is made of bearing bars intersected with smooth round or squared twisted bars, electro-welded together in one only pressing process with a 2000 A electric discharge. The advantages of the electro-welding are: a high resistance to twisting, a consistent distribution of loads with the guarantee of a long life. The bearing bars have different sections from a minimum20x2 mm to a maximum of 100x5 mm. Depending on the use required and the type of mesh, bars are the bearing elements of each panel and ensure them their load capacity. The intersections have the function to connect the bearing bars by electro-welding, to ensure grating stability and at the same time thanks to the equal distribution of the load, to increase their load capacity.

Many are the application possibilities
from the housing industry to the offshore projects.

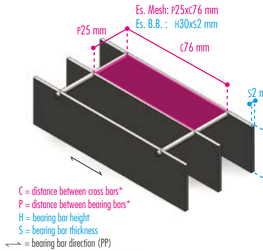
Being it extremely resistant and inexpensive
the electro-welded grating has become very much demanded in the market.

Versatile in case of different requirements
it allows for the production of panel of varied and special shapes.

High quality standards
thanks to the ongoing and consistent updating of the equipment.

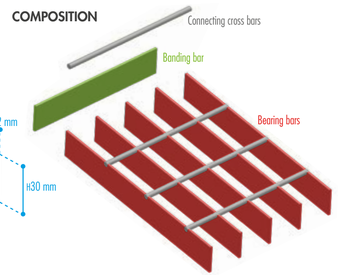
The most efficient technical choice
to stand the most heavy loads in any laying-in-position condition.

GRATING IN DETAILS



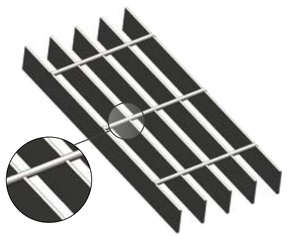
*the distance is calculated CENTRE-TO-CENTRE between an element and the other

COMPOSITION

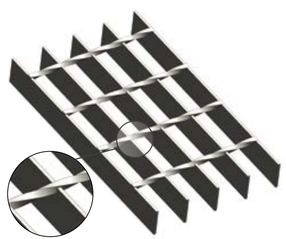


STANDARD TYPES OF ELECTRO-WELDED GRATING

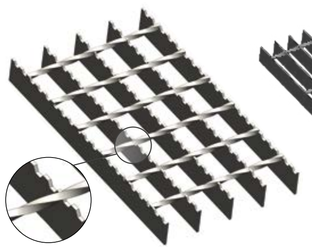
COUPLED WITH SMOOTH ROUND BAR



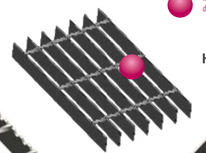
COUPLED WITH SQUARE TWISTED BAR



SERRATED – ANTISLIP

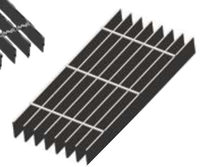


BALL PROOF Mesh 22x76 mm



this Grating is produced in a way not to let any ball bigger than 20 mm diameter go through

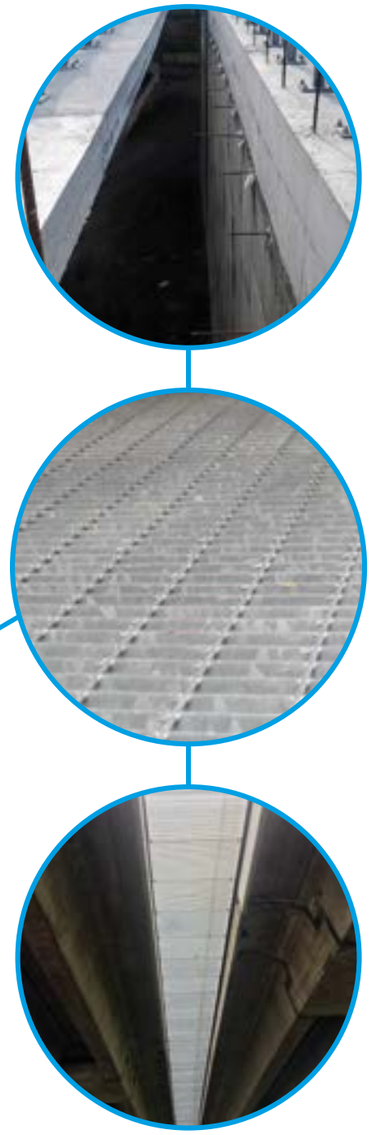
HEEL PROOF Mesh 15x76 mm

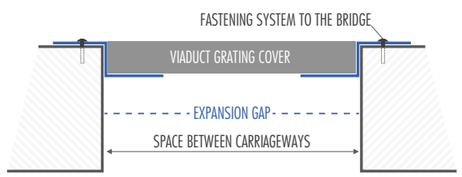


SAME EXAMPLES OF ELECTRO-WELDED GRATING

FLOORING FOR A RAIL FUEL DEPOT
Electro-welded grating Baldassar type **M. 25x76 mm P. 30x3 mm**, steel S235JR. Connection to smooth round binding and hot dip galvanized bar according to UNI EN ISO 1461 Standard

EMERGENCY WALKWAY AND RELATED PROTECTION RAILING
Electro-welded grating Baldassar type **M. 15x76 mm P. 25x2 mm** (walkway) - **M.124x44 mm P.30x2 mm** (railing) steel S235JR. Connection to smooth round bar, banded and hot dip galvanized according to UNI EN ISO 1461 Standard





SYSTEM FOR VIADUCTS
Electro-welded grating Baldassar type **M. 34x76 mm P. 30x2 mm**, steel S235JR. Connection to smooth round bar, banded and hot dip galvanized according to UNI EN ISO 1461 standard

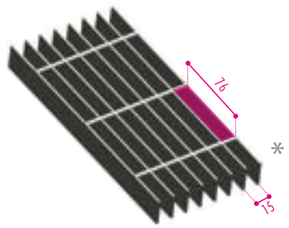
GROUND ELECTRO-WELDED GRATING
WALKWAYS FOR RESIDENTIAL USE

VENTILATION GRID
Electro-welded grating Baldassar type **M. 15x76 mm P. 25x2 mm**, heel proof, steel S235JR. Connection to smooth round Ø4mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

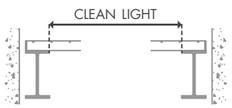
VENTILATION GRID
Electro-welded grating Baldassar type **M. 15x76 mm P. 50x3 mm**, heel proof, steel S235JR. Connection to smooth round Ø5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

Mesh 15x76 mm HEEL PROOF

MESH PATTERN



	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
	20x2	○ 4mm	6100x1000	21,0	22,4	1045	231	176	138
	25x2	○ 4mm	6100x1000	25,2	27,0	1235	305	222	173
	25x2	○ 4mm	6100x1200	25,2	27,0	1235	305	222	173
	30x2	○ 4mm	6100x1000	30,8	33,0	1417	395	276	208
	30x2	○ 4mm	6100x1200	30,8	33,0	1417	395	276	208
*	30x2D	⊠ 5mm	6100x1000	30,6	32,8	1417	395	276	208
	40x2	○ 4mm	6100x1000	40,7	43,5	1758	625	374	278
	25x3	○ 5mm	6100x1000	39,6	42,3	1367	407	283	212
	30x3	○ 5mm	6100x1000	46,3	49,6	1568	543	343	254
	40x3	○ 5mm	6100x1000	62,1	66,4	1945	887	462	352
	50x3	○ 5mm	6100x1000	77,1	82,5	2300	1330	610	440
	60x3	○ 5mm	6100x1000	92,2	98,6	2637	1653	790	528
*	70x3	○ 5mm	6100x1000	107,2	114,7	2960	1928	1004	616
*	80x3	○ 5mm	6100x1000	122,2	130,8	3272	2202	1250	713
*	90x3	○ 5mm	6100x1000	137,2	146,8	3574	2477	1529	823
*	100x3	○ 5mm	6100x1000	152,3	162,9	3868	2752	1841	946
*	50x4	○ 5mm	6100x1000	103,0	110,2	2471	1517	747	508
*	60x4	○ 5mm	6100x1000	123,2	131,9	2834	1819	987	610
*	70x4	○ 5mm	6100x1000	143,4	153,5	3181	2121	1272	722
*	80x4	○ 5mm	6100x1000	163,6	175,1	3516	2423	1600	851
*	90x4	○ 5mm	6100x1000	183,9	196,7	3841	2726	1901	998
*	100x4	○ 5mm	6100x1000	204,1	218,3	4157	3028	2110	1162



the Load Bearing classes refers to the CLEAN LIGHT between placements, i.e. the distance between one support and the other.

*Not always available in stock

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

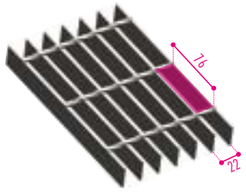
GROUND ELECTRO-WELDED GRATING
RACOMMENDED FOR INDUSTRIAL USE

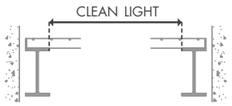
VENTILATION GRID
Electro-welded grating Baldassar type **M. 22x76 mm P. 30x3 mm**, heel proof, steel S235JR. Connection to smooth round ⍁5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

WINDOW WELLS
Electro-welded grating Baldassar type **M. 22x38 mm P. 25x2 mm**, steel S235JR. Connection to smooth round ⍁5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

Mesh 22x76 mm

MESH PATTERN





the Load Bearing classes refers to the CLEAN LIGHT between placements, i.e. the distance between one support and the other.

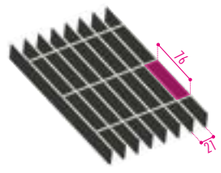
	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
	25x2	⍁ 4mm	6100x1000	19,2	20,6	1123	252	187	144
	30x2	⍁ 4mm	6100x1000	22,6	24,2	1287	320	227	173
	25x3	⍁ 5mm	6100x1000	28,2	30,2	1242	329	232	177
	30x3	⍁ 5mm	6100x1000	33,5	35,8	1425	430	290	212
	30x3D	⍁ 5mm	6100x1000	33,3	35,6	1425	430	290	212
	40x3	⍁ 5mm	6100x1000	44,0	47,0	1768	687	395	285
*	50x3	⍁ 5mm	6100x1000	54,4	58,2	2090	1017	505	376
*	60x3	⍁ 5mm	6100x1000	64,9	69,4	2396	1421	640	452
*	70x3	⍁ 5mm	6100x1000	75,4	80,6	2690	1748	799	528
*	30x4	⍁ 5,5mm	6100x1000	44,3	47,4	1531	540	342	245
*	40x4	⍁ 5,5mm	6100x1000	57,0	60,9	1900	883	461	339
*	50x4	⍁ 5,5mm	6100x1000	70,7	75,6	2246	1323	607	435
*	60x4	⍁ 5,5mm	6100x1000	84,4	90,3	2575	1650	787	522
*	70x4	⍁ 5,5mm	6100x1000	98,1	105,0	2890	1924	999	609
*	80x4	⍁ 5,5mm	6100x1000	111,8	119,7	3195	2198	1244	704
*	70x5	⍁ 5,5mm	6100x1000	127,3	136,2	3056	2072	1199	687
*	80x5	⍁ 5,5mm	6100x1000	145,0	155,1	3378	2367	1505	805
*	100x5	⍁ 5,5mm	6100x1000	180,4	193,0	3994	2958	2061	1090

ANTIBIGLIA*

*Not always available in stock

Mesh 21x76 mm BALL PROOF

MESH PATTERN

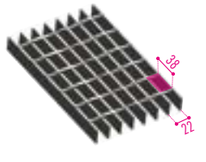


	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
*	25x2	⍁ 4mm	6100x1000	20,0	21,4	1123	252	187	144
*	30X2	⍁ 4mm	6100x1000	23,5	25,2	1287	320	227	173

*Not always available in stock

Mesh 22x38 mm

MESH PATTERN



B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
25x2	⍁ 4mm	6100x1000	21,3	22,8	1123	252	187	144

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

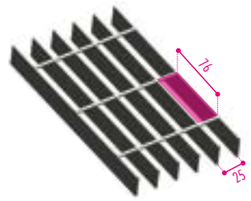
GROUND ELECTRO-WELDED GRATING
RACOMMENDED FOR INDUSTRIAL USE

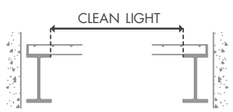
VENTILATION GRID
Electro-welded grating Baldassar type **M. 25x76 mm P. 25x2 mm**, steel S235JR. Connection to smooth round Ø5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

VENTILATION GRID
Electro-welded grating Baldassar type **M. 25x25 mm P. 25x2 mm**, steel S235JR. Connection to smooth round Ø4mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

Mesh 25x76 mm

MESH PATTERN





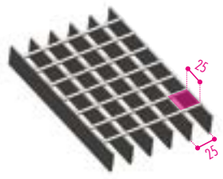
the Load Bearing classes refers to the CLEAN LIGHT between placements, i.e. the distance between one support and the other.

	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
	25x2	○ 4mm	6100x1000	16,6	17,7	1087	238	177	136
	25x2	○ 4mm	6100x1200	16,6	17,7	1087	238	177	136
	30x2	○ 4mm	6100x1000	19,6	21,0	1247	298	213	164
	30x2	○ 4mm	6100x1200	19,6	21,0	1247	298	213	164
	40x2	○ 4mm	6100x1000	25,7	27,5	1547	453	302	218
	25x3	○ 5mm	6100x1000	24,2	26,1	1203	307	218	167
	30x3	○ 5mm	6100x1000	29,8	31,9	1380	398	270	201
	40x3	○ 5mm	6100x1000	39,3	42,1	1712	629	375	268
	50x3	○ 5mm	6100x1000	48,7	52,1	2024	928	476	349
	60x3	○ 5mm	6100x1000	58,0	62,1	2321	1292	597	433
*	70x3	○ 5mm	6100x1000	67,3	72,1	2605	1690	741	505
*	80x3	○ 5mm	6100x1000	76,7	82,0	2880	1930	906	577
	40x4	○ 6mm	6100x1000	53,1	56,8	1840	806	435	316
	50x4	○ 6mm	6100x1000	65,6	70,2	2175	1204	568	416
	60x4	○ 6mm	6100x1000	78,2	83,7	2494	1595	729	500
	70x4	○ 6mm	6100x1000	90,8	97,1	2800	1859	921	583
*	80x4	○ 6mm	6100x1000	103,3	110,5	3094	2124	1142	670
*	90x4	○ 6mm	6100x1000	115,9	124,0	3380	2389	1392	769
*	100x4	○ 6mm	6100x1000	128,4	137,4	3658	2654	1672	879
*	70x5	○ 6mm	6100x1000	113,3	121,2	2960	2002	1101	654
*	80x5	○ 6mm	6100x1000	124,7	138,1	3272	2288	1377	763
*	100x5	○ 6mm	6100x1000	160,6	171,8	3868	2858	1993	1023

*Not always available in stock

Mesh 25x25 mm

MESH PATTERN



B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
25x2	○ 4mm	6100x1000	19,2	20,6	1087	238	177	136

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

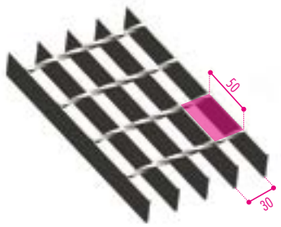
GROUND ELECTRO-WELDED GRATING
RACOMMENDED FOR INDUSTRIAL USE

FALSE CEILING
Electro-welded grating Baldassar type **M. 30x50 mm P. 40x3 mm**
steel S235JR. Connection to smooth round ⍁5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

VEHICLE LOADING RAMP
Electro-welded grating Baldassar type **M. 30x100 mm P. 30x5 mm,**
steel S235JR. Connection to smooth round ⍁5,5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

Mesh 30x50 mm

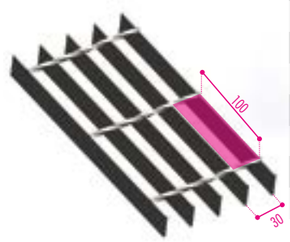
MESH PATTERN



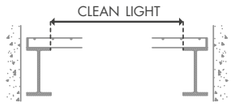
B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
25x3	⍁ 5mm	6100x1000	22,5	24,1	1150	265	198	154
30x3	⍁ 5mm	6100x1000	26,4	28,2	1318	339	242	184
30x3D	⍁ 5mm	6100x1000	26,2	28,0	1318	339	242	184
40x3	⍁ 5mm	6100x1000	34,1	36,5	1636	524	336	246
40x4	⍁ 5,5mm	6100x1000	43,8	46,9	1758	666	388	286
30x5	⍁ 5,5mm	6100x1000	42,5	45,5	1449	457	312	227
30x5D	⍁ 5,5mm	6100x1000	42,2	45,2	1449	457	312	227

Mesh 30x100 mm

MESH PATTERN



B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
25x3	⍁ 5mm	6100x1000	20,9	22,4	1150	265	198	154
30x3	⍁ 5mm	6100x1000	24,8	26,5	1318	339	242	184
30x3D	⍁ 5mm	6100x1000	24,6	26,3	1318	339	242	184
40x3	⍁ 5mm	6100x1000	32,6	34,8	1636	524	336	246
40x4	⍁ 5,5mm	6100x1000	44,3	47,4	1758	666	388	286
30x5	⍁ 5,5mm	6100x1000	41,9	44,8	1449	457	312	227
30x5D	⍁ 5,5mm	6100x1000	41,7	44,6	1449	457	312	227
40x5	⍁ 5,5mm	6100x1000	55,0	58,8	1859	808	436	327



the Load Bearing classes refers to the CLEAN LIGHT between placements, i.e. the distance between one support and the other.

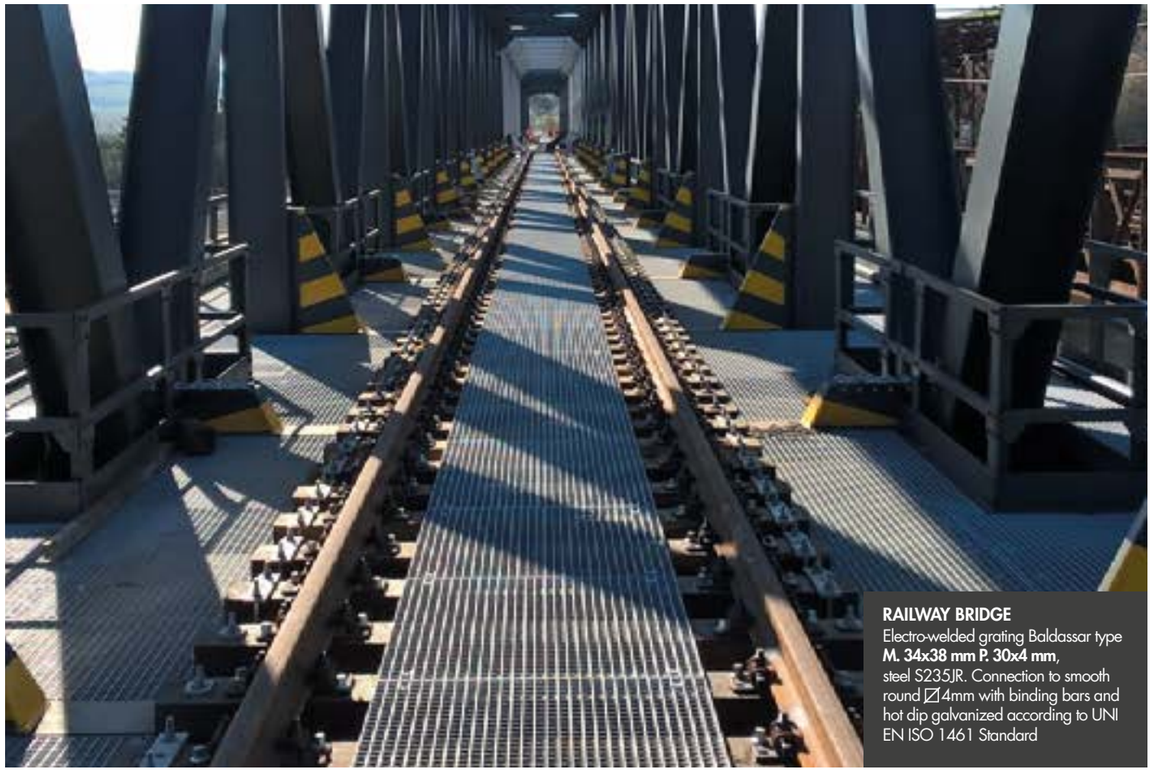
Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

GROUND ELECTRO-WELDED GRATING
RACOMMENDED FOR INDUSTRIAL USE

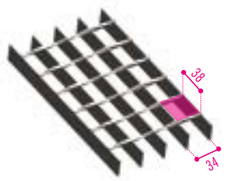


RAILWAY BRIDGE
Electro-welded grating Baldassar type **M. 34x38 mm P. 30x4 mm**, steel S235JR. Connection to smooth round ⍁4mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

OIL & GAS FLOORING
Electro-welded grating Baldassar type **M. 34x76 mm P. 30x3 mm**, steel S235JR. Connection to smooth round ⍁5mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

Mesh 34x38 mm

MESH PATTERN

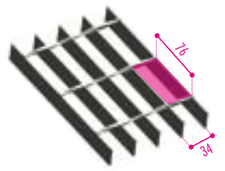


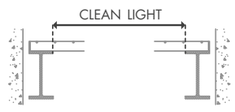
	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
	25x2	⍁ 4mm	6100x1000	15,0	16,1	1007	195	150	116
	30x2	⍁ 4mm	6100x1000	17,6	18,8	1154	237	180	139
	40x2	⍁ 4mm	6100x1000	22,0	23,6	1432	345	245	186
	25x3	⍁ 5mm	6100x1000	21,2	22,7	1114	243	184	142
*	25x3D	⍁ 5mm	6100x1000	21,0	22,5	114	243	184	142
	30x3	⍁ 5mm	6100x1000	24,6	26,3	1278	306	222	171
	30x3D	⍁ 5mm	6100x1000	24,4	26,1	1278	306	222	171
*	40x3	⍁ 5mm	6100x1000	31,5	33,7	1585	467	313	228
*	50x3	⍁ 5mm	6100x1000	38,3	41,0	1874	674	391	288
*	30x4	⍁ 5,5mm	6100x1000	31,7	33,9	1373	375	263	197
*	40x4	⍁ 5,5mm	6100x1000	40,9	43,7	1704	590	361	264
*	50x4	⍁ 5,5mm	6100x1000	51,6	55,2	2014	865	455	342

*Not always available in stock

Mesh 34x76 mm

MESH PATTERN





the Load Bearing classes refers to the CLEAN LIGHT between placements, i.e. the distance between one support and the other.

	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
	25x2	⍁ 4mm	6100x1000	12,8	13,7	1007	195	150	116
	30x2	⍁ 4mm	6100x1000	15,5	16,6	1154	237	180	139
	40x2	⍁ 4mm	6100x1000	20,0	21,4	1432	345	245	186
	25x3	⍁ 5mm	6100x1000	19,1	20,5	1114	243	184	142
	30x3	⍁ 5mm	6100x1000	22,6	24,1	1278	306	222	171
	40x3	⍁ 5mm	6100x1000	29,4	31,4	1585	467	313	228
*	60x3	⍁ 5mm	6100x1000	43,0	46,1	2149	927	475	360
	40x4	⍁ 5,5mm	6100x1000	38,8	41,5	1704	590	361	264
*	60x4	⍁ 5,5mm	6100x1000	58,5	62,6	2309	1202	567	430

*Not always available in stock

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

SERRATED GRATINGS

Among the different types of electro-welded grating a special attention should be paid to the serrated or anti slip grating. From cableways, to ships, to building sites in general the electro-welded serrated grating can be good use. We have available in stock the most commonly used types (34x38 mm, 30x50 mm, 30x100 mm) with a variety of bearing bars; moreover we can produce other mesh types on request (to be evaluated accordingly)

By “anti slip” or “serrated” we mean a grating provided on the upper side of the bearing bars with a kind of indentation which improves the anti slip properties of the panels. This type of grating has been devised to answer to the Accident Prevention Regulations and it is widely used wherever there are liquids or oily substances. Available with many mesh types, each one of them can be combined to many types of bearing bars.

MAIN FIELDS OF APPLICATION

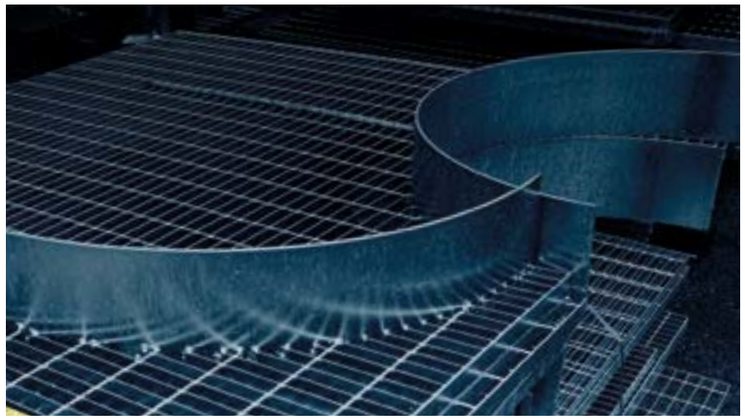
- INDUSTRY
- RAILWAY
- PETRO-CHEMICAL SECTOR
- AIRPORTS
- CABLE WAYS AND UPHILL LIFT SYSTEMS
- AGRICULTURAL FIELDS
- SHIPBUILDING
- FOOD SECTOR

CABLE WAY FLOORING
Electro-welded grating Baldassar type M. 15x76 mm P. 25x2 mm, heel proof, steel S235JR. Connection to smooth round ⍁4mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

INDUSTRIAL PLANT FLOORING
Electro-welded grating Baldassar type M. 15x76 mm P. 25x2 mm, steel S235JR. Connection to smooth round ⍁ 4mm with binding bars and hot dip galvanized according to UNI EN ISO 1461 Standard

SPECIAL TREATMENTS

To better answer to the special construction requirements of our customers, our special inhouse department directly performs the treatments of product transformation such as shaping, calendering and binding.

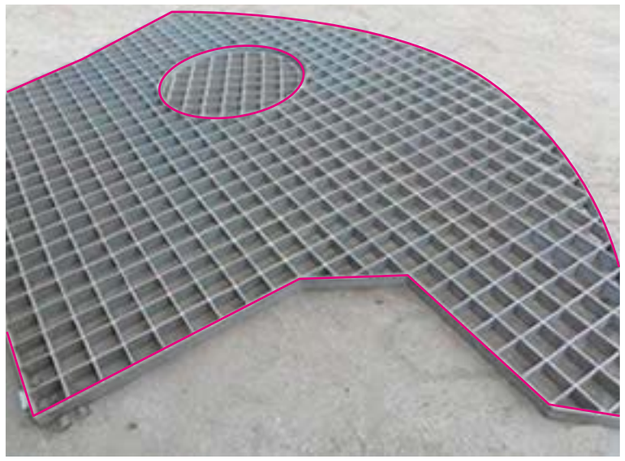


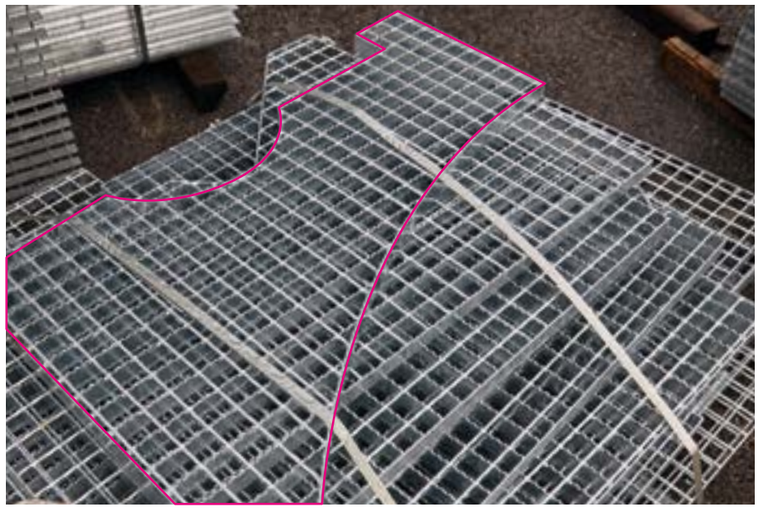
In our premises we have organized a department for special treatments such as shaping, special binding, calendering, etc.

Thanks to our specialized technicians we can perform the majority of work treatments inhouse, therefore we can manage the entire order inside our premises, without any loss of time or price increase.

SHAPING

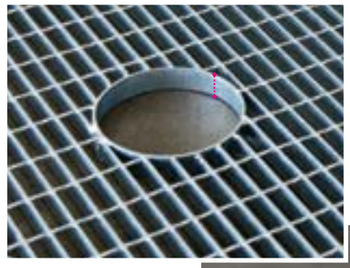
Each building and every situation has different shapes and needs, because of this Baldassar has organized a technically specialized department, able to give special shapes and patterns to the product. Thanks to shaping, each grating element can have the most suitable contour for an easy inclusion and laying in position with minimum waste of material.





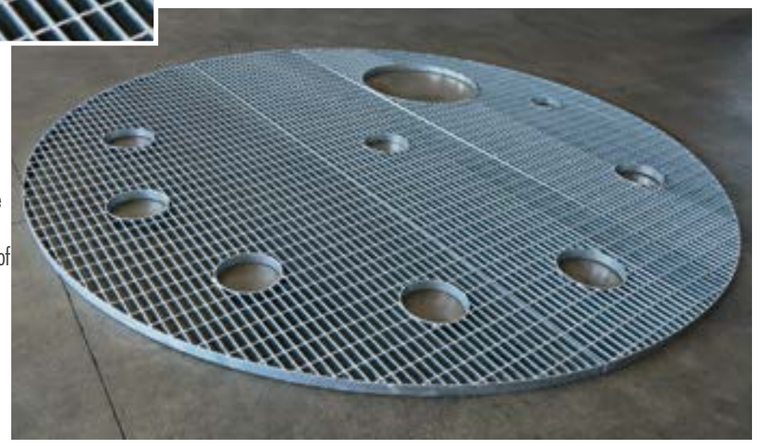
CALENDERING

Thanks to a technologically advanced equipment, our technical department can apply any deformation on metallic profiles following detailed drawings, giving them a circular curve. The process is all within our production department therefore no need to wait for the performance from third party companies and no waste of time.



BANDING

Through the banding process, it is possible to give the grating panel a different finishing or a customized one according to the drawing of the client himself, like for example round or rounded, squared or shaped edges of stair treads. This deformation process is completely planned and performed inside Baldassar premises.



ELECTROWELDED GRATING MODULAR PANEL for Residential/Industrial use

The electro-welded grating standard panel is widely used for the covering of clean light spaces for vehicle and pedestrian paths. This product is always available in stock.

PANEL Mesh 25x76 mm

B.B. mm HxS	Conn.	Dimensions mm	Galvan. kg/unit	Pieces No. packaging	Maximum Load
25x2	4mm	150x1000	3,7	25	Class 4
25x2	4mm	200x1000	4,6	25	Class 3
25x2	4mm	250x1000	5,5	25	Class 2
25x2	4mm	300x1000	6,5	25	Class 1
25x2	4mm	400x1000	8,3	25	Class 1
25x2	4mm	500x1000	10,2	25	Class 1
25x2	4mm	600x1000	12,1	25	Class 1
25x2	4mm	700x1000	13,9	25	Class 1
25x2	4mm	800x1000	15,8	25	Class 1
25x2	4mm	900x1000	17,6	25	Class 1
25x2	4mm	1000x1000	19,5	25	Class 1
30x3	5mm	250x1000	9,5	25	Class 4
30x3	5mm	300x1000	11,2	25	Class 3
30x3	5mm	400x1000	14,5	25	Class 2
40x3	5mm	150x1000	8,2	25	Class 4
40x3	5mm	200x1000	10,4	25	Class 4
40x3	5mm	250x1000	12,5	25	Class 4
40x3	5mm	300x1000	14,7	25	Class 4
40x3	5mm	400x1000	19,0	25	Class 3
40x3	5mm	500x1000	23,3	25	Class 2
40x3	5mm	600x1000	27,7	25	Class 2
40x3	5mm	700x1000	32,0	25	Class 2
40x3	5mm	800x1000	36,3	25	Class 1

PANEL Mesh 15x76 mm

B.B. mm HxS	Conn.	Dimensions mm	Galvan. kg/unit	Pieces No. packaging	Maximum Load
25x2	4mm	150x1000	5,3	25	Class 4
25x2	4mm	200x1000	6,8	25	Class 4
25x2	4mm	250x1000	8,2	25	Class 3
25x2	4mm	300x1000	9,7	25	Class 2
25x2	4mm	400x1000	12,7	25	Class 1
25x2	4mm	500x1000	15,6	25	Class 1
25x2	4mm	600x1000	18,6	25	Class 1
25x2	4mm	700x1000	21,5	25	Class 1
25x2	4mm	800x1000	24,5	25	Class 1
25x2	4mm	900x1000	27,4	25	Class 1
25x2	4mm	1000x1000	30,4	25	Class 1

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

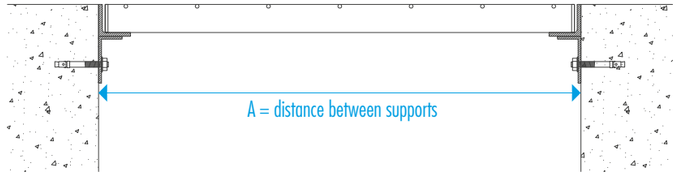
Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

FRAMES FOR MODULAR PANELS

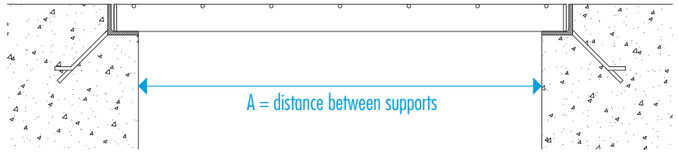
When giving us the features of the panels you wish to install, it is important to know that the dimensions should be completed with the inside net length and width of the hole (A) and with the type of frame where the panel will be placed.

TYPES OF FRAMES

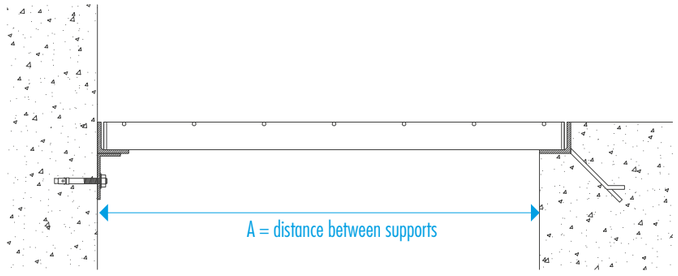
Window well with CORNER FRAME TO FASTEN (on opening)



Window well with CORNER FRAME TO CONCRETE-IN (on island)

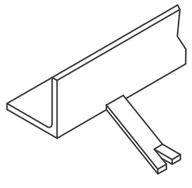


Window well with ONE SIDE TO FASTEN AND ONE TO CONCRETE-IN (opening/island)

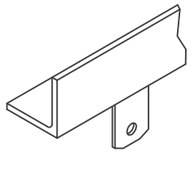


CORNER BARS AVAILABLE IN STOCK

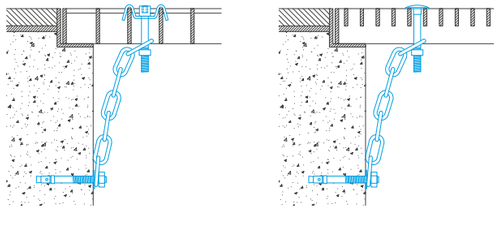
Corner bar 30x30x3 galvanized 2000mm/3000mm hot dip-galvanized
Corner bar 35x35x3 galvanized 2000mm/3000mm hot dip-galvanized
Corner bar 45x45x4 galvanized 2000mm/3000mm hot dip-galvanized



Corner bar 30x30x3 to fasten 2000mm/3000mm hot dip-galvanized
Corner bar 35x35x3 to fasten 2000mm/3000mm hot dip-galvanized
Corner bar 45x45x4 to fasten 2000mm/3000mm hot dip-galvanized



ANTI THEFT CLAMP FOR WINDOW WELLS



PRESSED GRATINGS

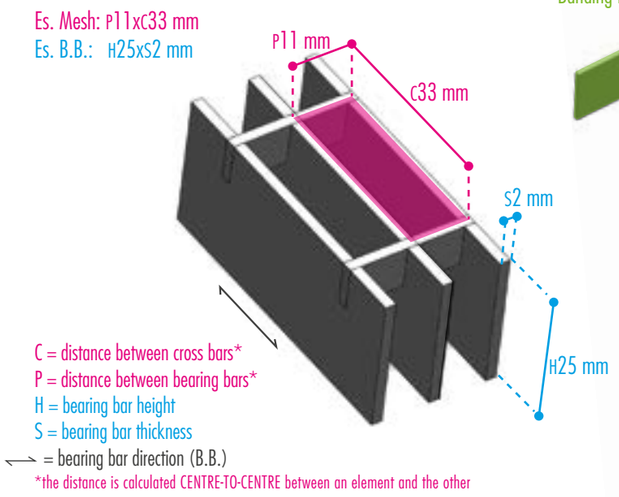
pressing detail

PRESSED GRATING HORIZONTAL

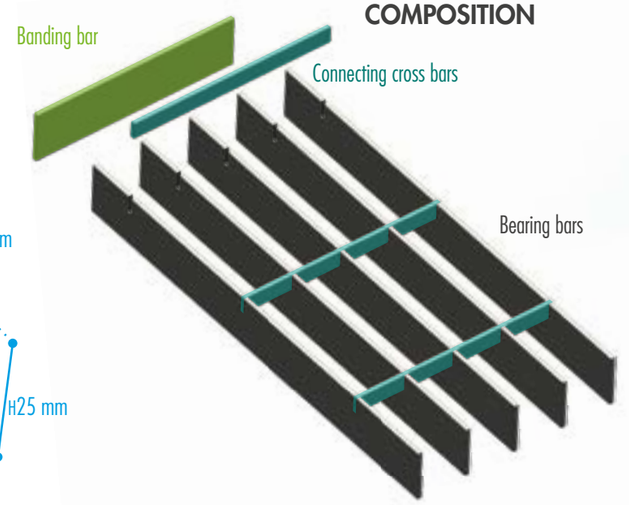
The pressed grating is made up of bearing bars intersecting together with cross bars by way of a hard pressing treatment. The notches on the bearing bars are made by high precision production lines and the cross bars are inserted by pressing. The pressed grating is advisable for residential use with pedestrian load.

All types of pressed grating can be made both in galvanized steel as well as STAINLESS STEEL.

GRATING IN DETAILS

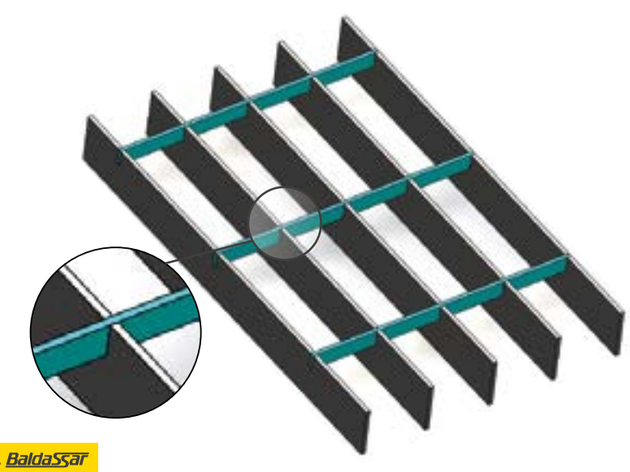


COMPOSITION

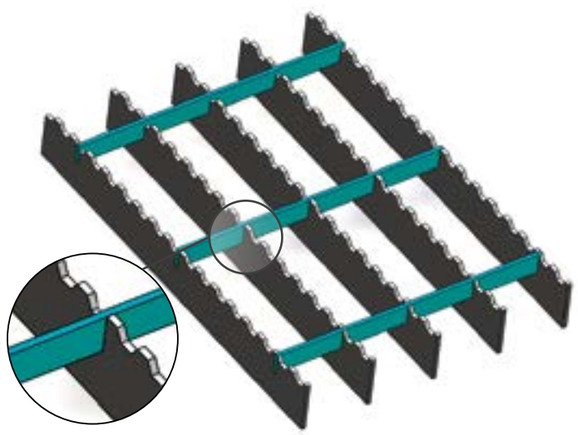


TYPES OF STANDARD PRESSED GRATING

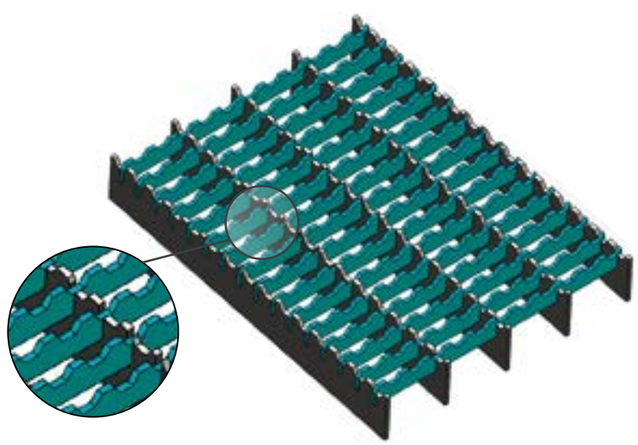
STANDARD



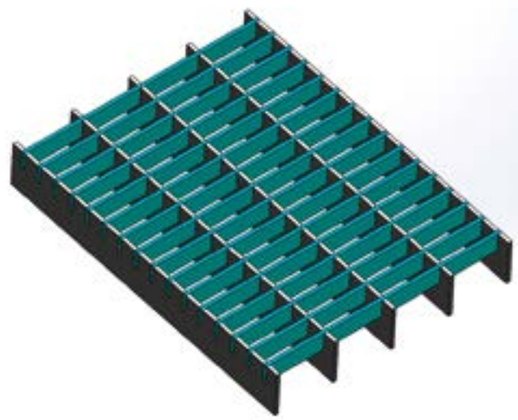
SERRATED – ANTISLIP



EXTRA SERRATED – ANTISLIP



HEEL PROOF Mesh 11 x N. mm | N. x 11 mm



SOME EXAMPLES OF PRESSED GRATING USE

FLOORING FOR THE VENTILATION OF AN UNDERGROUND CAR PARK

Baldassar type pressed grating M. 66x11mm P. 100x3 mm, steel S235JR. With smooth bar. Banded and hot dip galvanized according UNI EN ISO 1461.

FLOORING FOR THE VENTILATION OF AN UNDERGROUND CAR PARK

Baldassar type pressed grating M. 33x11mm P. 30x3mm, steel S235JR. With smooth bar. Banded and hot dip galvanized according to UNI EN ISO 1461.

SAFETY AND INTRUSION PROOF FENCE FOR WAREHOUSES

Baldassar type pressed grating M. 33x11mm P. 25x2 mm, steel S235JR. With smooth bar. Banded and hot dip galvanized according UNI EN ISO 1461.

FLOORING FOR THE VENTILATION OF AN UNDERGROUND CAR PARK

Baldassar type pressed grating M. 44x11mm P. 40x3mm, steel S235JR. With smooth bar. Banded and hot dip galvanized according UNI EN ISO 1461.

PRESSED GRATING MAIN MESH

KEY WORDS
Ln = maximum net light between supports (mm)
f = deflection (mm)

NOTE
For the availability of the bearing bars and of the center distance of same contact the manufacturer.

The loading chart was calculated by applying one only imprint at the center of the panel.

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

B.B. Section	Centre distance of bearing bars (mm) 11		22		33		44		66	
	Ln	f	Ln	f	Ln	f	Ln	f	Ln	f
20 x 2	1129	5,00	933	4,65	815	4,06	741	3,70	633	2,96
25 x 2	1335	5,00	1123	5,00	1014	5,00	926	4,62	792	3,71
30 x 2	1531	5,00	1287	5,00	1163	5,00	1082	5,00	950	4,44
35 x 2	1718	5,00	1445	5,00	1306	5,00	1215	5,00	1098	5,00
40 x 2	1900	5,00	1597	5,00	1443	5,00	1343	5,00	1214	5,00
45 x 2	2075	5,00	1745	5,00	1577	5,00	1467	5,00	1326	5,00
50 x 2	2246	5,00	1888	5,00	1706	5,00	1588	5,00	1435	5,00
25 x 3	1478	5,00	1242	5,00	1123	5,00	1045	5,00	926	4,62
30 x 3	1694	5,00	1425	5,00	1287	5,00	1198	5,00	1082	5,00
35 x 3	1902	5,00	1599	5,00	1445	5,00	1345	5,00	1215	5,00
40 x 3	2102	5,00	1768	5,00	1597	5,00	1486	5,00	1343	5,00
45 x 3	2296	5,00	1931	5,00	1745	5,00	1624	5,00	1467	5,00
50 x 3	2485	5,00	2090	5,00	1888	5,00	1757	5,00	1588	5,00
60 x 3	2850	5,00	2396	5,00	2165	5,00	2015	5,00	1821	5,00
70 x 3	3199	5,00	2690	5,00	2430	5,00	2262	5,00	2044	5,00
80 x 3	3536	5,00	2973	5,00	2687	5,00	2500	5,00	2259	5,00
90 x 3	3862	5,00	3248	5,00	2935	5,00	2731	5,00	2468	5,00
100 x 3	4180	5,00	3515	5,00	3176	5,00	2956	5,00	2671	5,00
30 x 4	1821	5,00	1531	5,00	1383	5,00	1287	5,00	1163	5,00
40 x 4	2259	5,00	1900	5,00	1716	5,00	1597	5,00	1443	5,00
45 x 4	2468	5,00	2075	5,00	1875	5,00	1745	5,00	1577	5,00
50 x 4	2671	5,00	2246	5,00	2029	5,00	1888	5,00	1706	5,00
60 x 4	3062	5,00	2575	5,00	2327	5,00	2165	5,00	1956	5,00
70 x 4	3437	5,00	2890	5,00	2612	5,00	2430	5,00	2196	5,00
80 x 4	3800	5,00	3195	5,00	2887	5,00	2687	5,00	2428	5,00
90 x 4	4151	5,00	3490	5,00	3154	5,00	2935	5,00	2652	5,00
100 x 4	4492	5,00	3777	5,00	3413	5,00	3176	5,00	2870	5,00
110 x 4	4825	5,00	4057	5,00	3666	5,00	3411	5,00	3083	5,00
120 x 4	5150	5,00	4331	5,00	3913	5,00	3642	5,00	3290	5,00
40 x 5	2389	5,00	2009	5,00	1815	5,00	1689	5,00	1526	5,00
50 x 5	2824	5,00	2375	5,00	2146	5,00	1997	5,00	1804	5,00
60 x 5	3238	5,00	2723	5,00	2460	5,00	2289	5,00	2069	5,00
70 x 5	3635	5,00	3056	5,00	2762	5,00	2570	5,00	2322	5,00
80 x 5	4018	5,00	3378	5,00	3053	5,00	2841	5,00	2567	5,00
90 x 5	4389	5,00	3690	5,00	3335	5,00	3103	5,00	2804	5,00
100 x 5	4750	5,00	3994	5,00	3609	5,00	3358	5,00	3035	5,00
110 x 5	5102	5,00	4290	5,00	3876	5,00	3607	5,00	3259	5,00
120 x 5	5446	5,00	4579	5,00	4138	5,00	3850	5,00	3479	5,00

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

B.B. Section	Centre distance of bearing bars (mm) 11		22		33		44		66	
	Ln	f	Ln	f	Ln	f	Ln	f	Ln	f
20 x 2	272	0,54	197	0,28	166	0,20	143	0,15	129	0,12
25 x 2	369	0,77	252	0,37	208	0,26	179	0,19	162	0,15
30 x 2	488	1,09	320	0,49	255	0,32	216	0,23	194	0,18
35 x 2	628	1,51	399	0,64	312	0,40	258	0,28	229	0,22
40 x 2	790	2,05	491	0,83	376	0,50	306	0,34	268	0,26
45 x 2	974	2,73	595	1,06	450	0,62	361	0,41	313	0,31
50 x 2	1179	3,55	711	1,34	532	0,77	423	0,50	363	0,37
25 x 3	504	1,39	329	0,62	262	0,40	221	0,29	198	0,23
30 x 3	682	2,06	430	0,86	333	0,53	274	0,36	242	0,29
35 x 3	893	2,97	549	1,17	418	0,70	337	0,46	293	0,35
40 x 3	1136	4,13	687	1,57	515	0,91	410	0,59	353	0,44
45 x 3	1360	5,00	843	2,06	625	1,16	492	0,74	420	0,55
50 x 3	1510	5,00	1017	2,66	749	1,48	584	0,92	495	0,67
60 x 3	1811	5,00	1421	4,24	1034	2,29	798	1,39	669	0,99
70 x 3	2111	5,00	1748	5,00	1372	3,40	1050	2,02	874	1,42
80 x 3	2412	5,00	1997	5,00	1761	4,83	1341	2,84	1112	1,98
90 x 3	2713	5,00	2246	5,00	2002	5,00	1671	3,88	1381	2,68
100 x 3	3014	5,00	2495	5,00	2224	5,00	2018	5,00	1681	3,53
30 x 4	877	3,34	540	1,32	411	0,79	332	0,52	289	0,40
40 x 4	1331	5,00	883	2,54	653	1,42	513	0,90	437	0,66
45 x 4	1496	5,00	1091	3,39	800	1,87	623	1,16	527	0,84
50 x 4	1661	5,00	1323	4,43	965	2,41	746	1,47	627	1,06
60 x 4	1992	5,00	1650	5,00	1346	3,82	1031	2,28	859	1,61
70 x 4	2323	5,00	1924	5,00	1715	5,00	1367	3,37	1133	2,35
80 x 4	2655	5,00	2198	5,00	1959	5,00	1755	4,80	1449	3,31
90 x 4	2986	5,00	2472	5,00	2203	5,00	1999	5,00	1808	4,53
100 x 4	3317	5,00	2746	5,00	2447	5,00	2221	5,00	2075	5,00
110 x 4	3649	5,00	3020	5,00	2691	5,00	2443	5,00	2282	5,00
120 x 4	3980	5,00	3294	5,00	2936	5,00	2664	5,00	2489	5,00
40 x 5	1433	5,00	1078	3,73	792	2,06	617	1,28	521	0,93
50 x 5	1789	5,00	1482	5,00	1181	3,56	908	2,14	758	1,51
60 x 5	2146	5,00	1777	5,00	1584	5,00	1263	3,38	1048	2,35
70 x 5	2502	5,00	2072	5,00	1847	5,00	1676	5,00	1391	3,49
80 x 5	2859	5,00	2367	5,00	2110	5,00	1915	5,00	1787	4,98
90 x 5	3216	5,00	2662	5,00	2373	5,00	2153	5,00	2012	5,00
100 x 5	3573	5,00	2958	5,00	2636	5,00	2392	5,00	2235	5,00
110 x 5	3930	5,00	3253	5,00	2899	5,00	2631	5,00	2458	5,00
120 x 5	4287	5,00	3549	5,00	3162	5,00	2870	5,00	2681	5,00

Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

B.B. Section	Centre distance of bearing bars (mm) 11		22		33		44		66	
	Ln	f	Ln	f	Ln	f	Ln	f	Ln	f
20 x 2	205	0,31	150	0,17	124	0,11	110	0,09	93	0,06
25 x 2	264	0,41	187	0,21	156	0,14	138	0,11	117	0,08
30 x 2	321	0,51	227	0,25	187	0,17	165	0,13	140	0,10
35 x 2	375	0,59	273	0,31	219	0,20	193	0,16	164	0,11
40 x 2	430	0,68	323	0,39	255	0,24	222	0,18	187	0,13
45 x 2	491	0,79	363	0,43	297	0,28	254	0,21	211	0,15
50 x 2	559	0,91	403	0,48	339	0,34	290	0,24	237	0,16
25 x 3	328	0,63	232	0,32	191	0,22	169	0,17	143	0,12
30 x 3	394	0,77	290	0,41	231	0,26	202	0,20	172	0,15
35 x 3	464	0,91	346	0,51	279	0,32	240	0,24	201	0,17
40 x 3	545	1,08	395	0,58	332	0,41	283	0,29	232	0,20
45 x 3	637	1,30	447	0,65	374	0,46	323	0,34	267	0,23
50 x 3	739	1,55	505	0,75	416	0,51	359	0,38	306	0,27
60 x 3	977	2,19	640	0,98	511	0,64	432	0,46	389	0,37
70 x 3	1257	3,03	799	1,28	624	0,80	516	0,56	458	0,44
80 x 3	1581	4,11	983	1,66	753	1,00	613	0,68	537	0,53
90 x 3	1893	5,00	1191	2,13	900	1,25	723	0,82	627	0,63
100 x 3	2100	5,00	1423	2,69	1065	1,55	846	1,00	727	0,75
30 x 4	459	1,04	342	0,57	275	0,37	237	0,28	199	0,20
40 x 4	660	1,56	461	0,78	384	0,54	332	0,41	276	0,28
45 x 4	782	1,91	530	0,91	433	0,61	373	0,46	322	0,33
50 x 4	919	2,34	607	1,06	488	0,70	415	0,51	374	0,39
60 x 4	1236	3,42	787	1,45	615	0,91	510	0,63	453	0,50
70 x 4	1610	4,86	999	1,96	765	1,18	622	0,80	544	0,62
80 x 4	1852	5,00	1244	2,60	938	1,52	751	1,00	649	0,75
90 x 4	2081	5,00	1521	3,39	1134	1,94	898	1,24	769	0,93
100 x 4	2310	5,00	1831	4,36	1353	2,44	1062	1,54	902	1,13
110 x 4	2539	5,00	2105	5,00	1596	3,04	1243	1,89	1050	1,37
120 x 4	2768	5,00	2294	5,00	1861	3,74	1441	2,29	1212	1,65
40 x 5	775	2,12	526	1,01	430	0,68	371	0,51	320	0,37
50 x 5	1099	3,28	709	1,43	560	0,91	469	0,65	419	0,52
60 x 5	1495	4,92	934	2,01	719	1,22	587	0,83	516	0,65
70 x 5	1748	5,00	1199	2,77	906	1,63	728	1,08	630	0,82
80 x 5	1994	5,00	1505	3,74	1123	2,14	889	1,37	762	1,03
90 x 5	2240	5,00	1851	4,94	1368	2,77	1072	1,74	911	1,28
100 x 5	2486	5,00	2061	5,00	1642	3,53	1277	2,18	1078	1,58
110 x 5	2733	5,00	2265	5,00	1945	4,45	1503	2,71	1263	1,95
120 x 5	2980	5,00	2469	5,00	2203	5,00	1751	3,33	1465	2,37

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

B.B. Section	Centre distance of bearing bars (mm) 11		22		33		44		66	
	Ln	f	Ln	f	Ln	f	Ln	f	Ln	f
20 x 2	159	0,19	115	0,10	95	0,07	82	0,05	70	0,04
25 x 2	199	0,23	144	0,12	119	0,08	103	0,06	88	0,05
30 x 2	239	0,28	173	0,15	143	0,10	124	0,08	106	0,06
35 x 2	281	0,33	202	0,17	167	0,12	144	0,09	123	0,06
40 x 2	329	0,40	231	0,20	191	0,13	165	0,10	141	0,07
45 x 2	371	0,45	260	0,22	215	0,15	186	0,11	159	0,08
50 x 2	412	0,50	292	0,25	239	0,17	206	0,12	176	0,09
25 x 3	244	0,35	177	0,19	146	0,13	126	0,09	108	0,07
30 x 3	297	0,43	212	0,22	175	0,15	152	0,11	129	0,08
35 x 3	353	0,52	248	0,26	205	0,18	177	0,13	151	0,10
40 x 3	404	0,60	285	0,30	234	0,20	202	0,15	173	0,11
45 x 3	455	0,68	328	0,35	263	0,23	228	0,17	194	0,12
50 x 3	505	0,75	376	0,41	296	0,26	253	0,19	216	0,14
60 x 3	606	0,90	452	0,50	372	0,33	310	0,24	259	0,16
70 x 3	717	1,08	528	0,59	434	0,40	376	0,29	308	0,20
80 x 3	845	1,30	603	0,67	496	0,45	437	0,35	364	0,24
90 x 3	990	1,56	684	0,77	559	0,51	491	0,40	413	0,28
100 x 3	1152	1,87	774	0,88	621	0,57	546	0,44	459	0,31
30 x 4	350	0,60	245	0,29	202	0,20	175	0,15	149	0,11
40 x 4	467	0,81	339	0,42	271	0,27	234	0,20	199	0,15
45 x 4	525	0,91	391	0,50	310	0,31	263	0,23	224	0,16
50 x 4	583	1,00	435	0,56	353	0,36	296	0,26	249	0,18
60 x 4	709	1,23	522	0,67	430	0,46	371	0,33	304	0,23
70 x 4	856	1,52	609	0,78	502	0,53	441	0,41	369	0,28
80 x 4	1027	1,88	704	0,91	573	0,61	504	0,47	424	0,33
90 x 4	1220	2,32	812	1,07	647	0,69	567	0,53	477	0,37
100 x 4	1436	2,85	932	1,25	728	0,78	631	0,59	530	0,42
110 x 4	1674	3,46	1064	1,46	818	0,89	701	0,66	583	0,46
120 x 4	1936	4,18	1210	1,71	917	1,01	777	0,74	637	0,50
40 x 5	522	1,01	389	0,56	308	0,35	262	0,25	223	0,18
50 x 5	655	1,27	486	0,70	401	0,48	339	0,34	281	0,23
60 x 5	811	1,60	584	0,84	481	0,57	423	0,44	349	0,29
70 x 5	995	2,02	687	0,99	561	0,66	493	0,51	414	0,36
80 x 5	1208	2,56	805	1,18	643	0,76	564	0,59	474	0,42
90 x 5	1450	3,22	940	1,42	734	0,88	635	0,66	533	0,47
100 x 5	1720	4,01	1090	1,69	836	1,02	714	0,75	592	0,52
110 x 5	2018	4,94	1256	2,01	948	1,18	801	0,85	654	0,57
120 x 5	2205	5,00	1437	2,37	1071	1,36	896	0,97	721	0,64

STEPS AND STAIRS

STEPS AND STAIRS

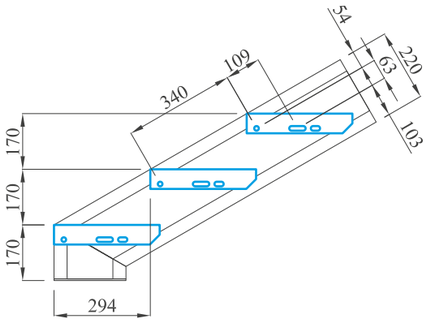
The main features distinguishing a stair tread from another are sturdiness, finishing and anti-slipperiness. Our standard steps, made with lateral banding bar, 60x3 mm section, predisposed with fastening holes, easy to assemble and are finished with perforated antislip metal sheet. Baldassar ensures maximum care in the welding and hot dip galvanized according to UNI EN ISO 1461 standard. The range of stair treads has been increased due to the standardizing of even the widest sizes (1800 mm or 2400 mm) for building safety stairs, for cinemas and shopping centers for example, where there is a high flow of people. The steps were designed to ensure a safe load **thanks to a special reinforcing structure underneath which does not insist on the tread weight.**

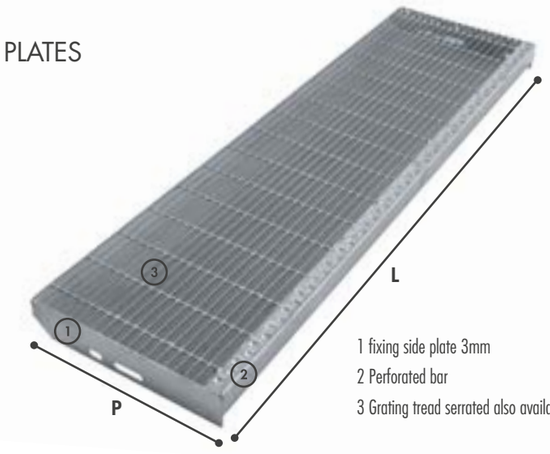
ex. TEST Performed on a Reinforced Tread

Our treads undergo special resistance tests.
The slotted holes on the sides are designed so that they can adapt to any type of stair ramps. The side of the treads (P) and the centre-to-centre distance of the fixing holes are pre-set by us in order to ensure a wide range of possible compositions; the width of the stair flight (L) is the only measure customers should give us at the time of a project process, by keeping in mind that in any case there are no problems to supply special treads.

STANDARD STAIR TREADS

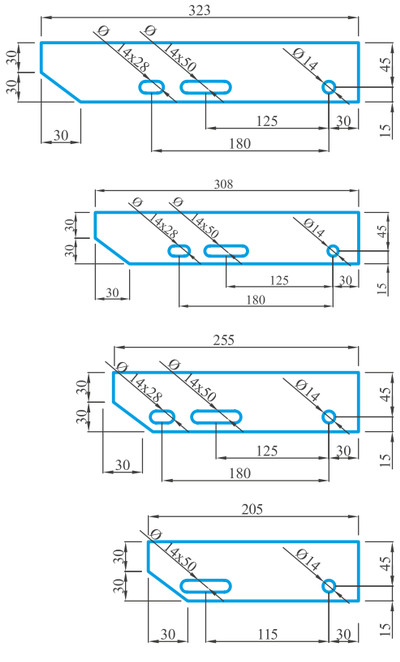
WITH PERFORATED FRONT BAR AND FIXING SIDE PLATES





1 fixing side plate 3mm
2 Perforated bar
3 Grating tread serrated also available

DRAWING DISTANCE BETWEEN HOLES



Dimensions L	P	Mesh mm	Bar mm	Conn.	Galv. kg/cad	N. Pieces Package
1000	308	15x76	25x2	O	10,2	30
1200	308		25x2	O	12,1	30
1000	308		30x2	O	11,9	30
PUBLIC USE ▸ 1200	**323**		***30x2**	O	**14,3**	**30**
1000	308	25x76	25x2	O	7,2	30
900	255		25x2	O	5,4	30
800	255		25x2	O	5,1	30
700	255		25x2	O	4,5	30
600	255		25x2	O	3,8	30
600	205		25x2	O	3,2	30

***Steps suitable for the planned public load according to Standard UNI 11002-2 and D.M. 14/06/1989 236.**

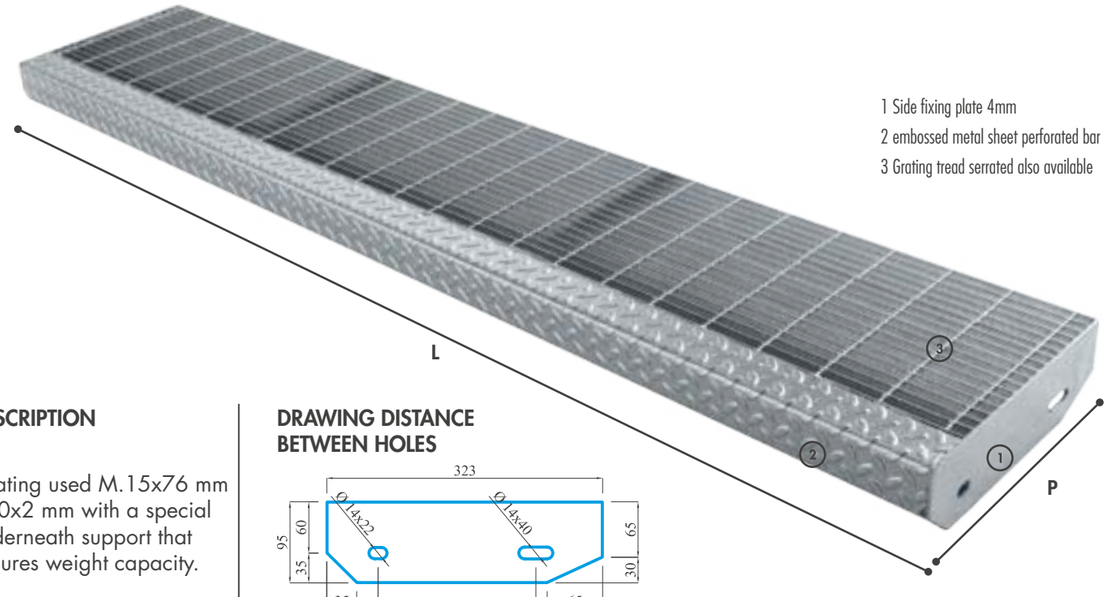
ADVANTAGES

- Can be produced with any grating mesh.
- Can be made to measure
- Side plates can be made to measure with slotted holes according to customer's requirements
- Wide selection available from stock

SPECIAL REINFORCED TREADS

WITH PERFORATED BARS MADE OF EMBOSSED METAL SHEET AND SIDE FIXING PLATES

Mainly used for escape ways in places with large flow of people



1 Side fixing plate 4mm
2 embossed metal sheet perforated bar
3 Grating tread serrated also available

DESCRIPTION

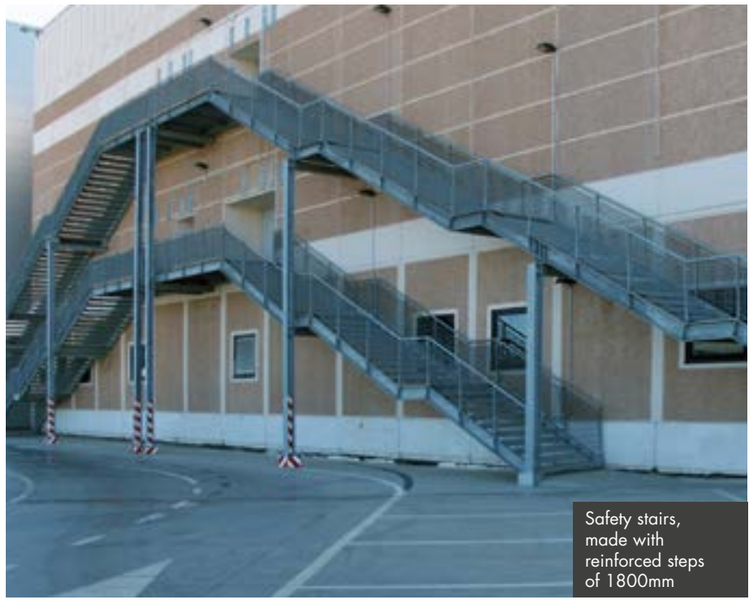
Grating used M.15x76 mm P.20x2 mm with a special underneath support that ensures weight capacity.

DRAWING DISTANCE BETWEEN HOLES

We design, produce and place grid stairs, designed on customer's actual drawing or by making a direct survey and project work. Our technicians follow the client at all stages, starting from the first site survey, to the development of the final designs in conformity with all the current STANDARDS by following with great care the production of all the elements required.

Dimensions L	P	Mesh mm	B.B. mm	Conn.	Galvanized kg/cad	Piece No. packaging
1800	323	15x76	*20x2	O	25,5	on request
2400	323		*20x2	O	46,5	on request

***treads suitable for public use as provided by UNI 11002-2 and according D.M. 14/06/1989 236**



Safety stairs, made with reinforced steps of 1800mm

Safety stairs, made with 1200mm steps

ELECTRO-WELDED STAINLESS STEEL GRATINGS

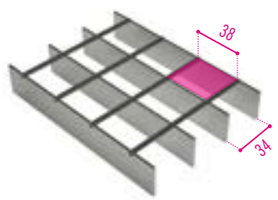
ELECTRO-WELDED STAINLESS STEEL GRATINGS

The main feature of the electro-welded stainless steel grating is its exceptional resistance to corrosion. This feature makes it suitable for all those places that require high health standard levels such as distilleries, food industries, pharmaceutical and chemical industries, etc. The much sought after stainless steel in the food sector is AISI 304, while in places where there are especially aggressive substances it is stainless steel AISI 316/316L. At Baldassar we have focused our production on electro-welded stainless steel gratings, making us the first manufacturer of this special product nationwide and among the leaders worldwide. Steel can be supplied as follows: **non -pickled, matt pickled or polished with a chrome-plated effect.**

Mesh 34x38 mm

Bar mm	Conn.	Dimensions mm	Raw kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
25x2	○ 4mm	*2050x1000	14,30	1014	244	185	165
25x2	○ 4mm	*3050x1000	14,30	1014	244	185	165
25x2	○ 4mm	*6100x1000	14,30	1014	244	185	165

MESH DRAWING

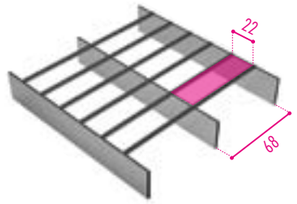


Mesh 68x22 mm

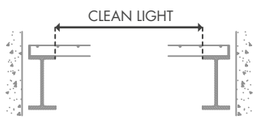
Bar mm	Conn.	Dimensions mm	Raw kg/mq	CL1 Clean light between placements mm	CL2 Clean light between placements mm	CL3 Clean light between placements mm	CL4 Clean light between placements mm
25x2	○ 4mm	*2050x1035	10,50	815	156	137	95
25x2	○ 4mm	*3050x1035	10,50	815	156	137	95
25x2	○ 4mm	*6100x1035	10,50	815	156	137	95

*nominal measures

MESH DRAWING



ELECTRO-WELDED STAINLESS STEEL conn. between bars, smooth cross bar



the Load Bearing classes refers to the CLEAN LIGHT between placements, i.e. the distance between one support and the other.

Class 1 – Compact crowd pedestrian load
D.M. 14 /01/2008 - 3.1.4
Chart 3.1.II - Category E.
Dynamic load 600 daN/m2
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
Max. deflection = 5mm
Max.deflection = 1/200 di Ln

Class 2 - vehicle
D.M. 14 /01/ 2008 - 3.1.4
Chart 3.1.II - Category F
Dynamic load 1000 daN on imprint
200x200 mm total ground mass
up to 3000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max. deflection = 5mm
Max.deflection = 1/200 di Ln

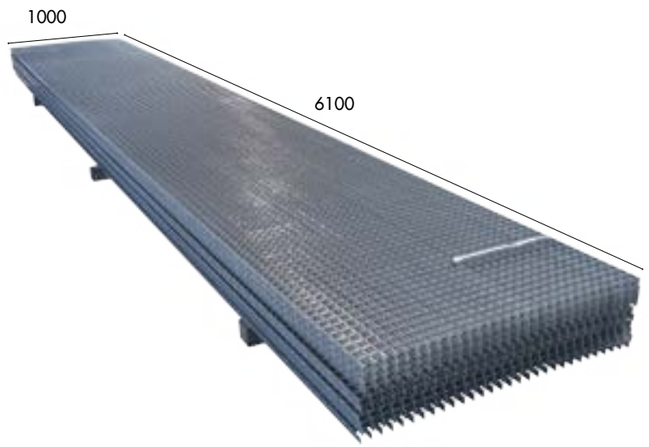
Class 3 – Light truck
Dynamic load 3000 daN on imprint
400x200 mm ground total mass
up to 6000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection = 5mm
Max.deflection = 1/200 di Ln

Class 4 – Heavy trucks
Dynamic load 9000 daN on imprint
600x250 mm ground total mass
up to 45000 kg
Material: Steel S235JR
Sigma yield strength = 23,5 daN/mm2
Sigma comparison = 22,38 daN/mm2
max.deflection. = 5mm
Max.deflection = 1/200 di Ln

THE ELECTRO-WELDED STAINLESS STEEL GRATING ENSURES BETTER STABILIY AND LONGER LIFE COMPARED TO THE PRESSED STAINLESS STEEL GRATING, ESPECIALLY DURING PROCESSING.

AERIAL WALKWAY
Electro-welded stainless steel Baldassar M. 34x38 mm P. 25x2 mm, stainless steel AISI 304. connection between bars,smooth cross bar Ø4mm, beaded and decapatated.

EXAMPLE OF ELECTRO-WELDED MAT. 34x38 mm P. 25x2 mm



STABLE, FAST, CONVENIENT

Stainless steel consists in iron alloys that can match the mechanical features that are typical of steel, with the peculiar properties of noble materials, among which the exceptional resistance to corrosive occurrences. These features make the stainless steel electro-welded grating especially suitable in high temperature working conditions, even among oxidizing agents, due to its high resistance and endurance in time. Stainless steel has many properties both physical as well as mechanical and for the most diverse applications.
In the Baldassar electro-welded stainless steel grating, every junction of the mesh is electro-welded, therefore the grating cannot break up when it is cut. This offers construction quality, stability, easy and fast customization as well as installation. Available as panels with round cross bars with mesh M. 34x38 mm or M. 68x22 mm.

The ongoing non stop production and the warehouse stock allow for a fast supply of all orders.

AESTHETIC AND FUNCTIONAL ADAPTABILITY

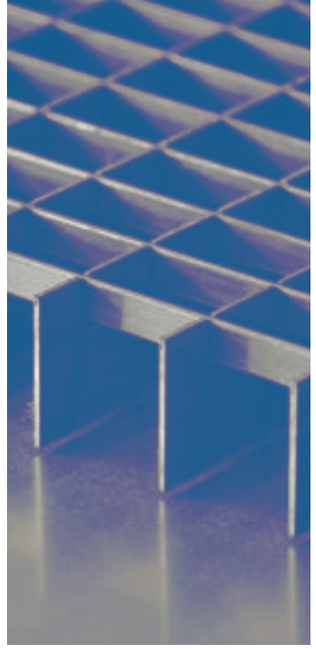
Besides being in use in all areas where stainless steel pressed material is already employed, electro-welding can be easily implemented in new areas such as design, furnishings and fencing.

The products made with electro-welded STAINLESS STEEL grating by Baldassar are available in the most used mesh patterns and are always in stock. Due to their resistance to corrosion and to weather conditions, stainless steel products are always and more often preferred as the right addition and stylish design element in various structures and situations. The range of use of the electro-welded stainless steel grating is quite wide: staircases, railings, panels, walkways, window wells e gutters. The wide range of applications and the flexibility of this element have re-evaluated and increased its use even in the architectural field.

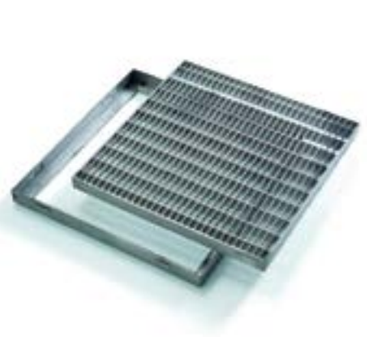
ELECTRO-WELDED
STAINLES STEEL WALKWAY

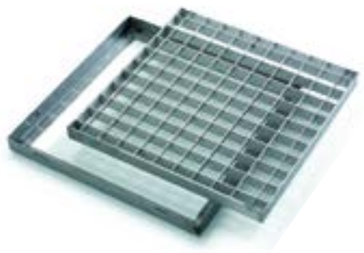
STAINLESS STEEL PRESSED GRATINGS

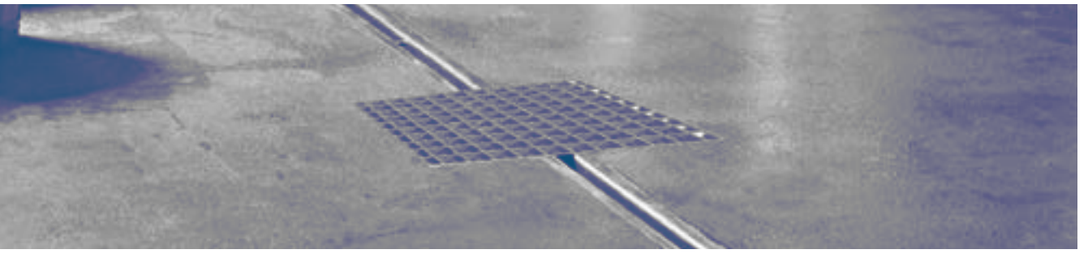
The combination between the use of special steel types such as STAINLESS STEEL and the specific technical know how resulting from decades of experience in the field, together with an advanced production plants, make of Baldassar grating, a product of unrivalled quality. The production of gratings is normally carried out with stainless steel AISI 304. For use in areas exposed to aggressive substances, we use stainless steel AISI 316/316 L. - The practical and flexible features of our grating panels are essential for all those places where a high health standard is the main requirement.
The grating panels stainless steel finishing include the surface treatments such as the matt chemical pickling and polishing, useful processes to obtain a long life and better looking product.



The use of the stainless steel pressed grating is especially recommended for all those places that require strict health and hygiene measures and that is why it is widely used in the food sector, in the pharmaceutical, energy, chemical, petrochemical industries as well as in the building, transport and architectural sectors. In the production of panels, railings and walkways, Baldassar uses stainless steel also in the production of some building industry items such as gutters, drain channels, manholes, pedestrian grating and window wells, technically studied to be easily installed in all situations. Pressed stainless steel gratings are always available from our warehouse in the most used mesh dimensions and standards.





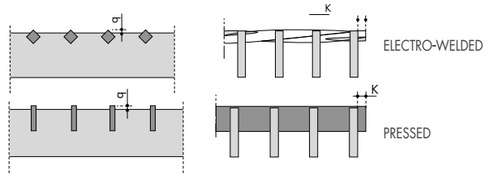


TOLERANCES

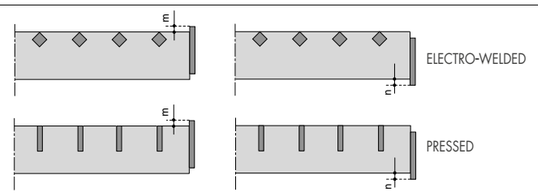
Gratings can vary in measures compared to the nominal measures caused by nominal measures, expansions or strains on the material for various reasons. Here are the average values to consider within tolerances.

PANELS CONSTRUCTION TOLERANCES

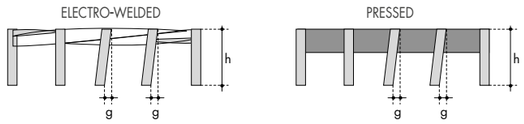
- Bar Protrusion(q; k)
  (q) tolerance on projections between cross bars and bearing bars
  max.q = 1,5 mm
  (k) tolerance on protrusions of cross bars with bearing bars
  max.k = 1,5 mm



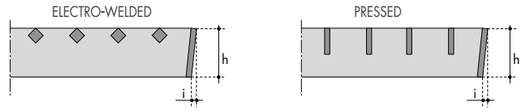
- Protrusion of end plate (m; n)
  (m) tolerance on the protrusion between binding bar and bearing bars on the panel upper part
  max.m = 1,5 mm
  (n) tolerance on the protrusion between binding bar and bearing bars on the panel lower part.
  Max. n = 1,5 mm



- Inclination of bearing bars (g)
  (g) tolerance of inclination of the bearing bars
  max.g = 0,1 • h
  max.g = bearing bar thickness
  Anyway max g = 4 mm

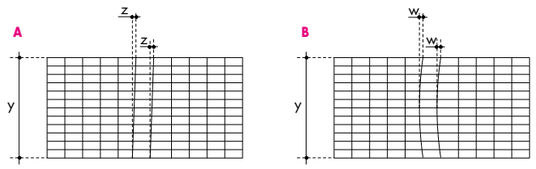


- Inclination of binding plate (i)
  (i) tolerance of banding plate inclination
  max.i = 0,1 • h
  max.i= banding plate thickness

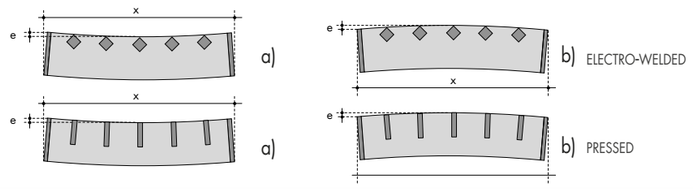


A
- Orthogonal position of cross bars (z)
  (z) tolerance of orthogonal position of cross bars compared to bearing bars
  max. z = 0,003 • Y

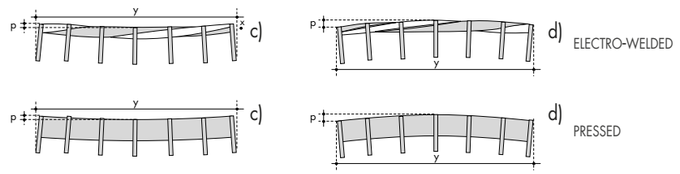
B
- Bars deflection (w)
  (w) bars deflection tolerance
  max. w = 0,004 • Y



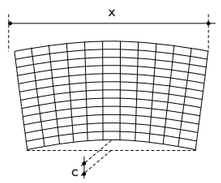
- Lengthwise flatness (e)
  (e) flatness deviation
  a) recess panel
  max.e = X/200 mm
  b) protruding panel
  max.e = X/150 mm



- Crosswise flatness (p)
  (p) flatness deviation
  c) recess panel
  max.p = Y/200 mm
  d) protruding panel
  max.p = Y/150 mm



- bearing bars deflection (c)
  (c) deflection tolerance of bearing bars
  max.c = 1/200 • X

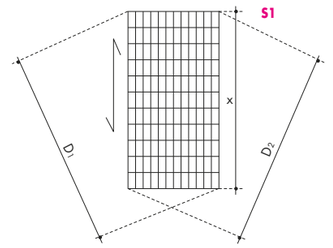


- Twist
  (sv) tolerances of the diagonal lines curve
  max. sv = D/150 mm
  D= panel diagonal

PANEL MEASURE TOLERANCES

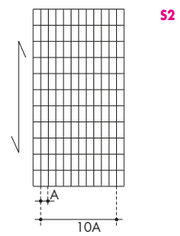
- Panel length (X)
  (x) length tolerance
  for x _2 000 mm
  x max. = 0 mm
  -4 per x > 2 000 mm
  x max. = 0 mm
  -0,002 • x

S1
- Panel width (y)
  (y) width tolerance
  for y _1 000 mm
  max.y = 0 mm
  -6 for y > 1 000 mm
  y max.=0 mm
  -0,006 • y

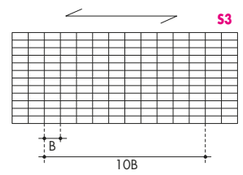


- Panel diagonals (R_1;R_2)
  d. tolerance on the diagonals
  d. for x _2 000 mm
  max.d =D1-D2= ±6 mm
  for x > 2 000 mm
  max.d =D1-D2= 0,003 • x S1

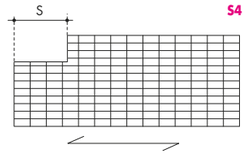
S2
- Bearing bars pitch (A)
  (a) tolerance on bars pitch
  on n°10 pitches (10 • A)
  max.a = ±4 mm
  on n°1 pitch
  max.a = ±1,5 mm S2



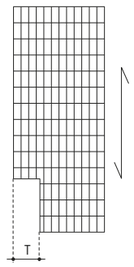
S3
- Bars pitch (B)
  (b) tolerance on the cross bar pitch
  on n°10 pitches (10•B)
  max.b = ±4 mm
  on n°1 pitch
  max. b = ±2 mm S3



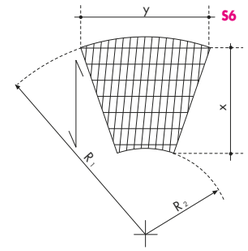
S4
- Length of straight shape (S)
  (s) tolerance on the shape length
  max. s = 0
  mm +10 S4



S5
- Width of straight shape (T)
  (t) tolerance on the shape width
  max. t = 0
  mm +10



S6
- Circular Shape Radius (R_1;R_2)
  (r) tolerance on the radius of the shaping
  R_1 = $^{0}_{-8}$ mm
  R_2 = $^{0}_{+8}$ mm

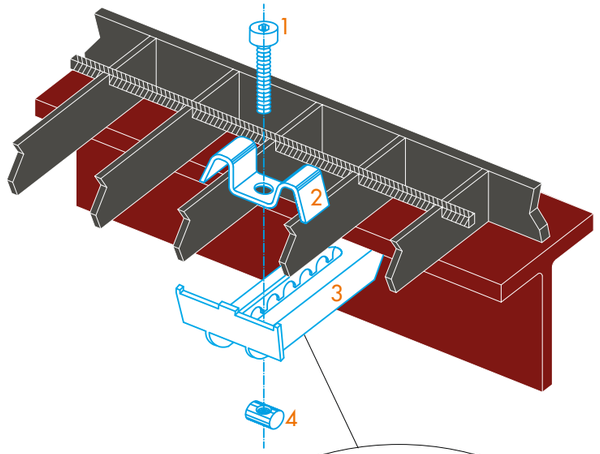


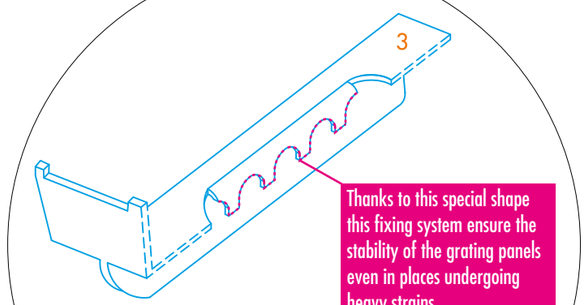
TOLERANCES
Standard UNI Series 11002
Tolerances are set by the standard UNI Series 11002 "Panels and grating electro-welded and/or Pressed steps" of August 2002 and following revisions, promoted by Assogrigliati - National Association of Italian producers of electro-welded and pressed gratings of steel and metallic alloys. The norm aims at supplying a suitable safety standard to the final client also as far a product according to current norms. In particular go to entry 1.1.3 which sets materials, dimensions and construction tolerances for installation on walkways or driveways made with bars, panels and stair treads.
The values set in the norm, at the entry title ' Tolerances' defines the limits according to which the grating performance doesn't undergo any changes and therefore, the nominal measures of the deflections that should not be exceeded.

FASTENING and FIXING ACCESSORIES

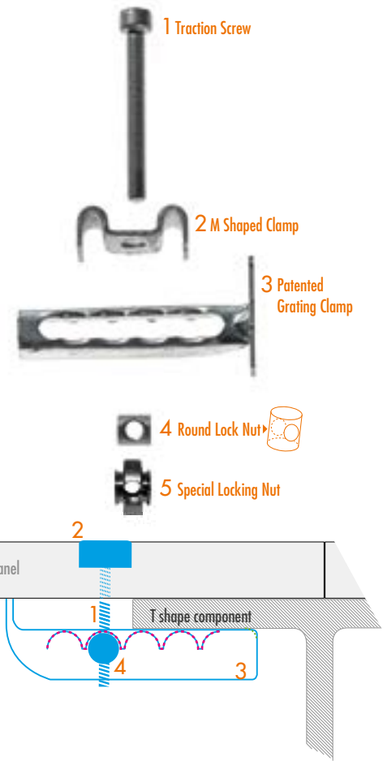
GRATING CLAMP PATENTED non slip

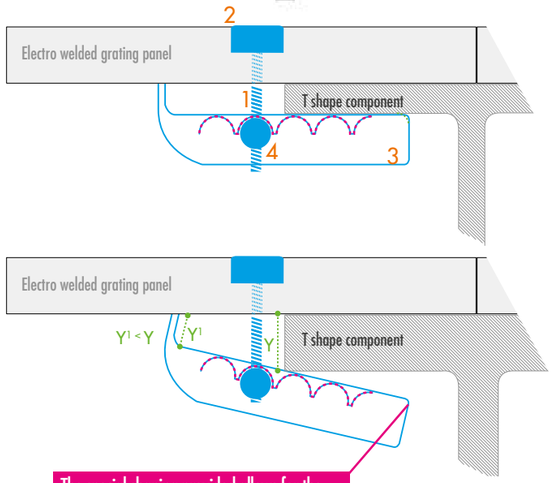
Our grating clamp is devised to ensure a safe and reliable fastening over time, and resistance to all possible vibrating stresses. Having the same construction and installation simplicity of traditional fastening devices, thanks to its technical feature, this one ensures a higher performance.





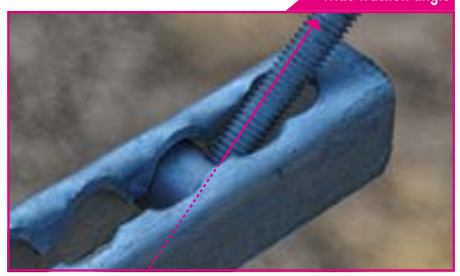
Thanks to this special shape this fixing system ensure the stability of the grating panels even in places undergoing heavy strains.



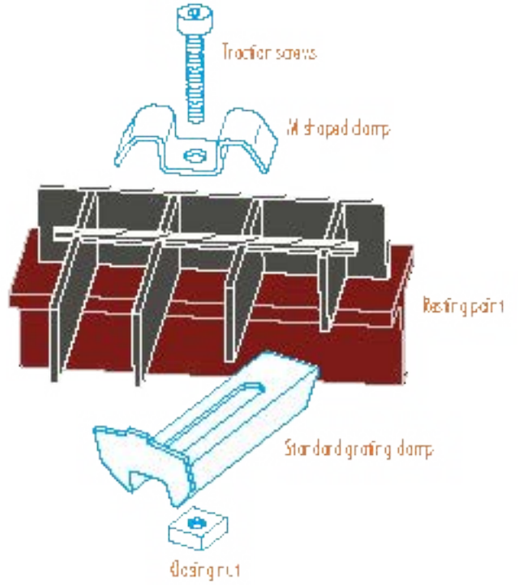


The special shaping provided allows for the traction screws to be inserted perpendicularly to the electro-welded grating panel even when in unachievable positions.

Wide traction angle

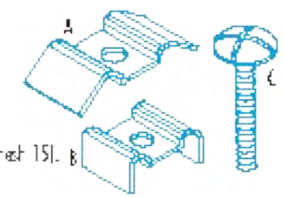


GRATING CLAMPS STANDARD We produce many types of grating clamps, each suitable for a specific mesh type.

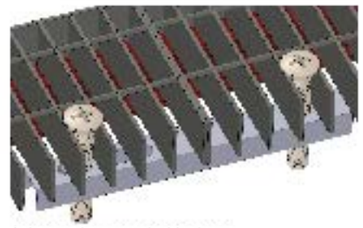


FIXING ELEMENTS

Suitable M shaped clamps
(A- mesh 22/25, B-mesh 30/34)
supplied on request. As alternative
you can use the special screw (C- mesh 15).

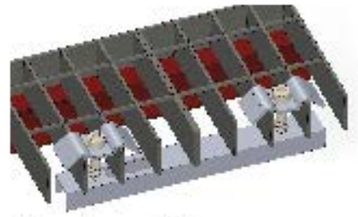


Galvanized grating clamp
Baldassar Model
Mesh hardware 11 - 15 mm



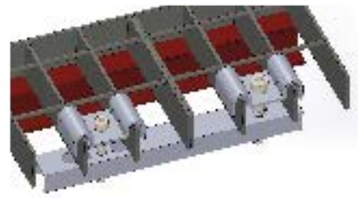
Galvanized grating double clamp
Baldassar Model
Mesh hardware 11 - 15 mm

Galvanized grating clamp
Baldassar Model
Mesh hardware 21 - 25 mm



Galvanized grating double clamp
Baldassar Model
Mesh hardware 21 - 25 mm

Galvanized grating clamp
Baldassar Model
Mesh hardware 30 - 34 mm



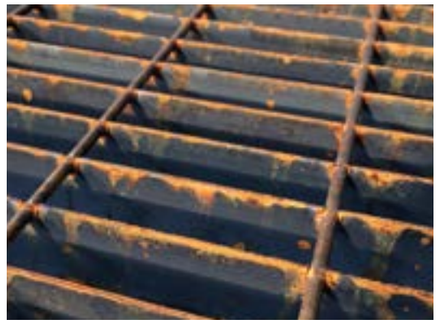
Galvanized grating double clamp
Baldassar Model
Mesh hardware 30 - 34 mm

COATINGS

GALVANIZING

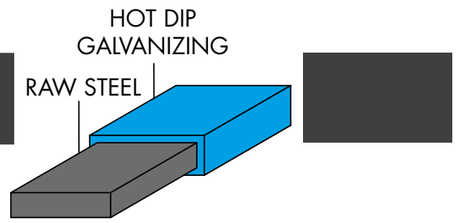
The hot dip galvanizing process is one of the most used methods for the protection of steel products from rust. This process takes place by applying a zinc coat on the product. This will protect the steel underneath and prevent its therefore keeping all its quality features in tact. Galvanizing is carried out by immersion of treated pieces in a bath of melt zinc at 450°C, for a period of time corresponding on the wanted coating thickness: the longer the immersion, the thicker will be the zinc coating and, therefore, the more the protection from rust and scratches. The rust problem is quite common for all iron made items and the risk of compromising the mechanical-structural resistance is very high: the pieces treated with our galvanizing process have a life 10 times longer than the untreated pieces (source BS5493/1977). In conformity with the Common Regulations of CEN/CENELEC, the member states of the European Standard Committee (CEN), including Italy, must comply with the standard UNI EN ISO 1461:2009 related to galvanization.

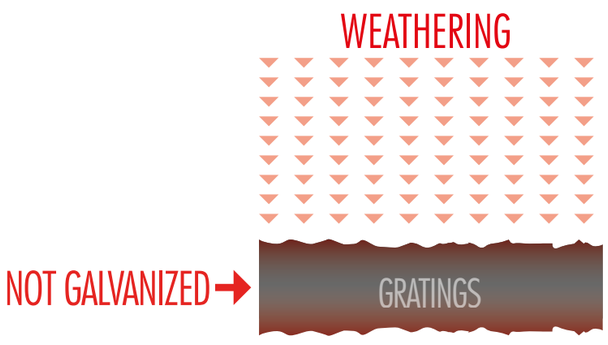
RAW

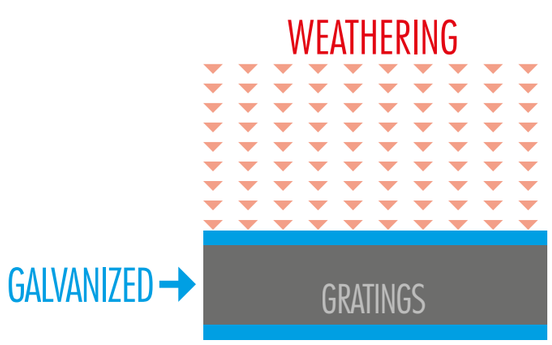


GALVANIZED

THE COAT OF ZINC PROTECTS STEEL FROM GALVANIC CORROSION BY REDUCING THE FORMATION OF ELECTROLYTE MICROCELLS WITH ANODZING EFFECT ON TEH EDGES







GALVANIZING

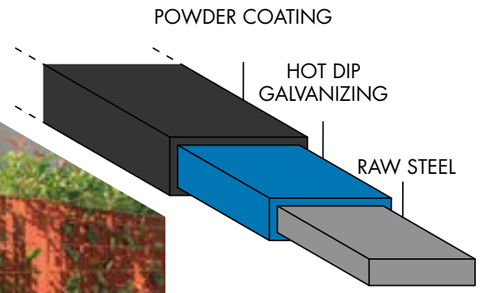
COLOUR TREATMENT

DESIGN & COLOUR

Technologies and possible design combinations make out of grating a product that is always more required to satisfy the many different solutions.
At Baldassar we can produce on our or your design the most diverse shapes, therefore contributing with our own experience to the solution of the various technical problems that may arise during work. Large range of colours available.

AVAILABLE COLOURS

6005	9010	9005	5010
1023	3002	7016	ING 01



VERTICAL ELECTRO-WELDED GRATING

Mesh 62x66 mm - Quasar 2/3

	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
	25x2	○ 5mm	6072x1560	8,9	9,5
	25x2	○ 5mm	6072x1870	8,9	9,5
	25x3	○ 5mm	6072x1560	12,1	13,0
	25x3	○ 5mm	6072x1870	12,1	13,0

Quasar 2

Mesh 66x132 mm (Internal B.B.) - Multisar

B.B. mm HxS	Coll.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
25x2	○ 5mm	6072x1870	7,0	7,4

Patented Solution ®


Multisar

Mesh 62x132 mm - Multisar 2/3/4

B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
25x2	○ 5mm	6072x1560	7,6	8,2
25x2	○ 5mm	6072x1870	7,6	8,2
25x3	○ 5mm	6072x1560	10,9	11,7
25x3	○ 5mm	6072x1870	10,9	11,7
30x4	○ 6mm	6072x1870	16,2	17,5


Plusar

Mesh 124x132 mm - Plusar

	B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
*	25x3	○ 5mm	6072x1870	6,1	6,5

* Not always available in Warehouse


Horizon

Mesh 47x133 mm FRANGISOLE - Horizon

B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
"Z" profile	○ 5mm	6100x1970	14,5	15,7
* "Z" profile	○ 5mm	6100x1560	14,5	15,7

* Not always available in Warehouse


Quadra

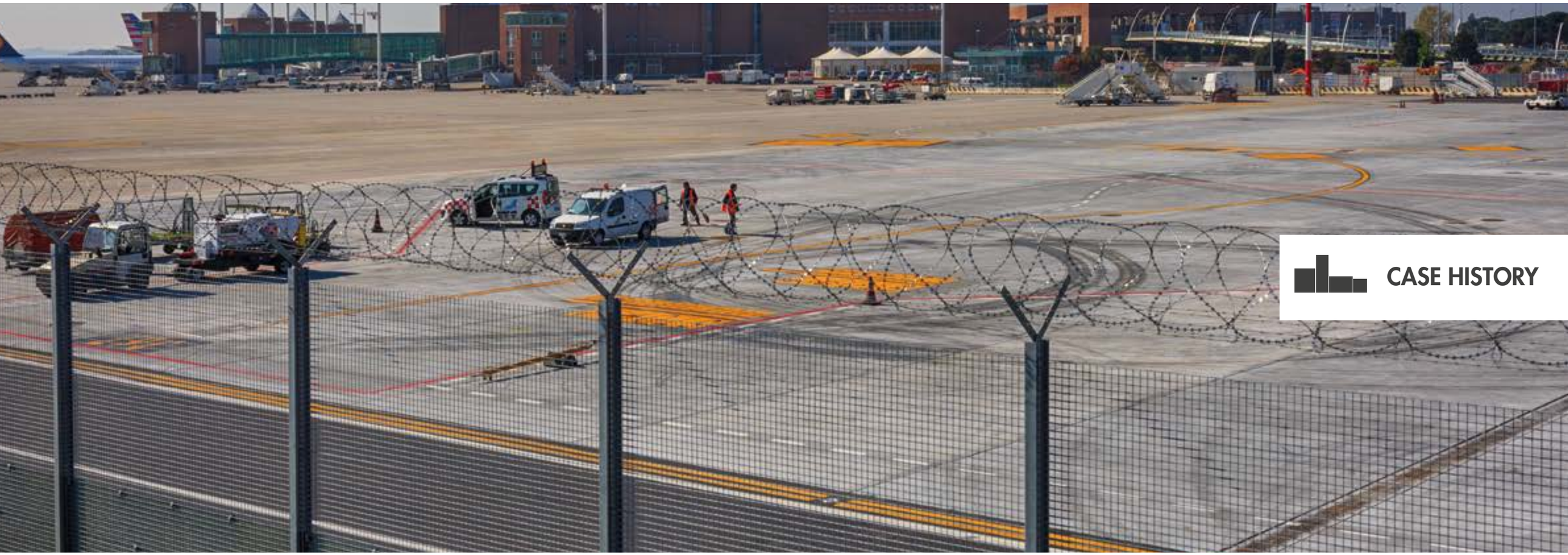
Mesh 44x44 mm - Quadra

B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
25x2	○ 4mm	6030x1860	11,4	12,1


Free

Mesh 124x44 mm - Free / Clear

B.B. mm HxS	Conn.	Dimensions mm	Raw kg/mq	Galvan. kg/mq
25x2	○ 5mm	6030x1870	6,9	7,4

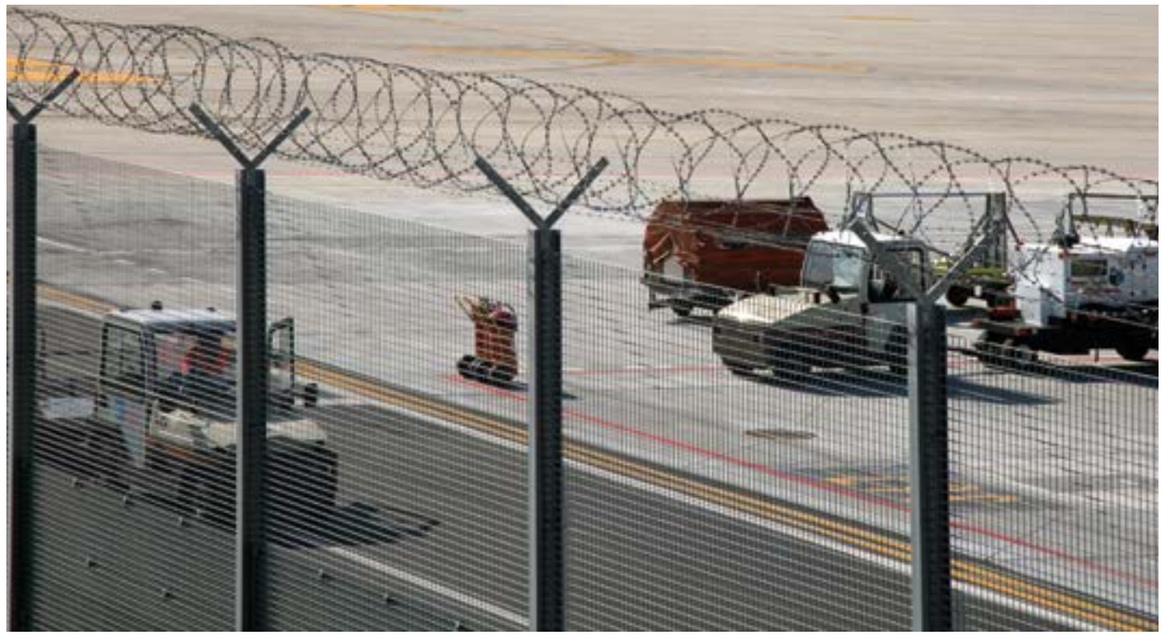


CASE HISTORY

MARCO POLO AIRPORT– VENICE

SUPPLY OF SAFETY RAILINGS

Baldassar railing Quadra,
M. 44x44 mm, B. 25x2 mm.
Dip galvanized according to UNI EN ISO 1461 standard. IPE 140mm posts with extension arm to support the barbed wire.

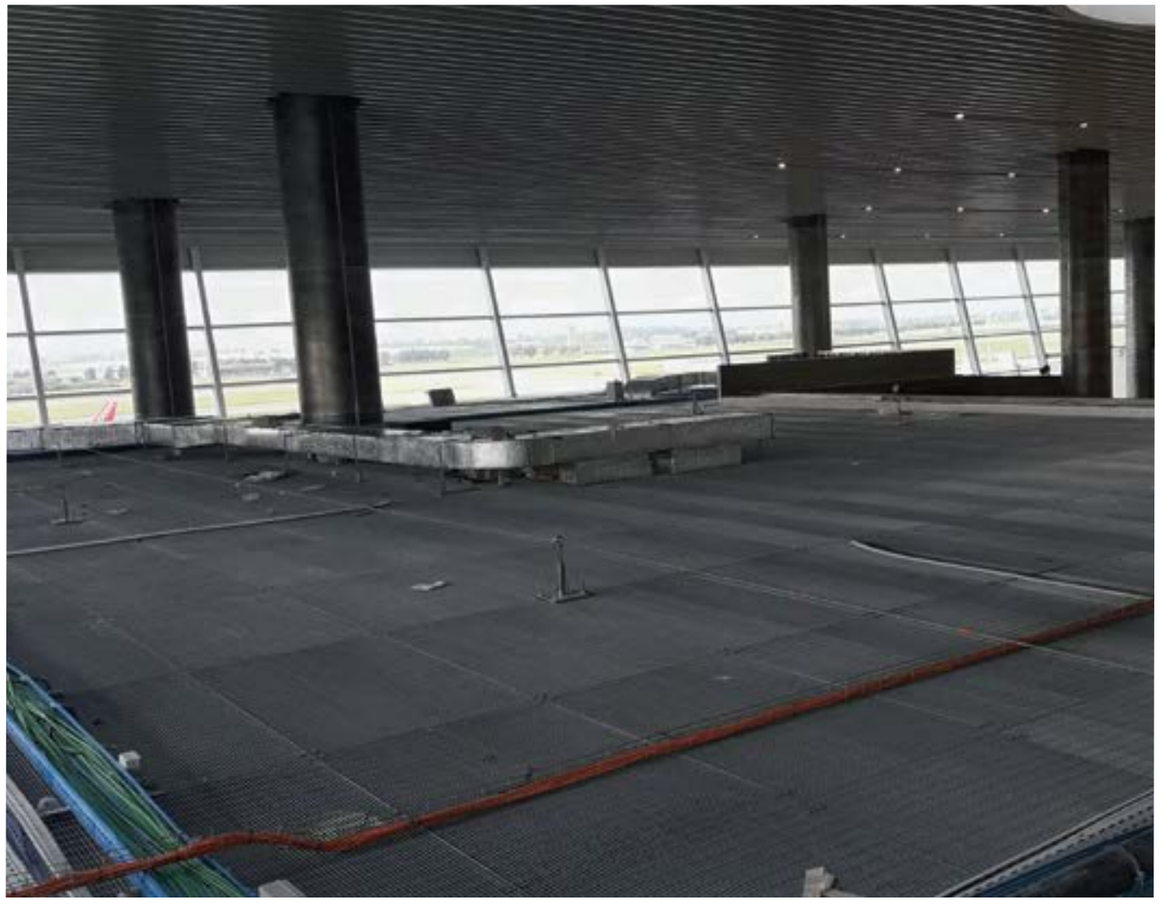


PORTO MARGHERA

SUPPLY OF SAFETY RAILINGS

Baldassar model Vega, M. 50x200 mm, round Ø 5 mm zinc coated and powder and thermo-set painted, RAL 6005 colour. Square tube posts 60x60 mm with extension arm for barbed wire.

FIUMICINO AIRPORT

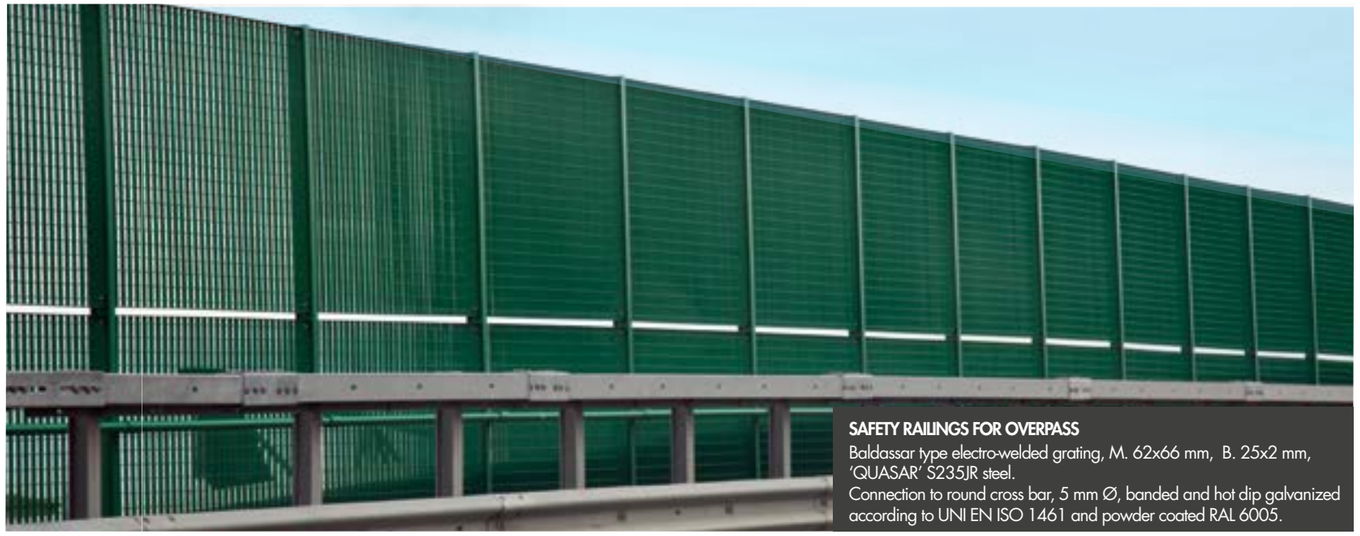


SUPPLY OF GRATING COVER

Baldassar Grating, M. 15x76 mm,
B. 30x2 mm with Ø 4 mm round cross bars
hot dip galvanized according to UNI EN
ISO 1461.

SAFETY RAILINS FOR OVERPASS
Baldassar type electro-welded grating, M. 44x44 mm,
B. 25x2 mm 'QUADRA', S235JR steel.
Connection to round cross bar, 4 mm Ø, banded and hot dip galvanized according to UNI EN ISO 1461

RAILINGS
Baldassar type electro-welded grating, M. 44x44 mm,
B. 25x2 mm,'QUADRA' S235JR steel.
Connection to round cross bar, 4 mm Ø, banded and hot dip galvanized according to UNI EN ISO 1461



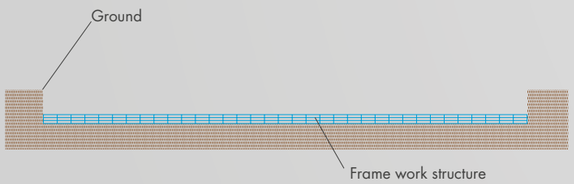
SAFETY RAILINGS FOR OVERPASS
Baldassar type electro-welded grating, M. 62x66 mm, B. 25x2 mm,
'QUASAR' S235JR steel.
Connection to round cross bar, 5 mm Ø, banded and hot dip galvanized according to UNI EN ISO 1461 and powder coated RAL 6005.

FOR CYCLE/PEDESTRIAN PATH
Baldassar type electro-welded grating, M. 124x44 mm,
B. 25x2 mm 'CLEAR' S235JR steel.
Connection to round cross bar, 4 mm Ø, banded and hot dip galvanized according to UNI EN ISO 1461

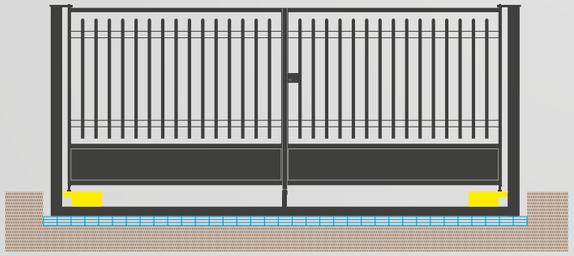
BALDABLOCK MONOBLOCK GATES
Ask for the catalog or visit our website www.GrigliatiBaldassar.com

SLIDING AND COMBINED GATES IN HALF AN HOUR THEY ARE INSTALLED, AFTER ONE DAY THEY CAN BE USED.

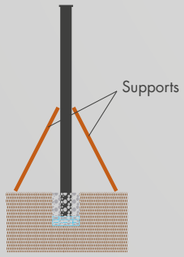
1) PREPARATION OF THE EXCAVATION



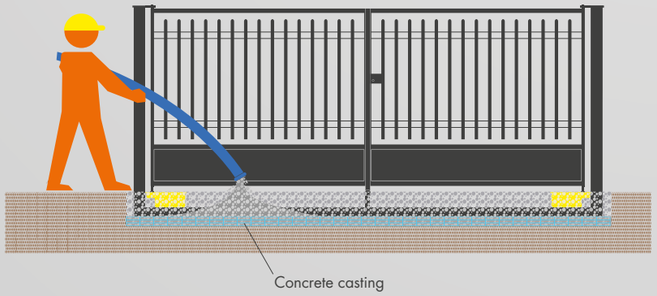
2) BALDABLOCK INSTALLATION



3) LEVELLING



4) CONCRETE CASTING



CUSTOMIZED GATES
Ask for the catalog or visit our website www.GrigliatiBaldassar.com

To complete the range of railings, at Baldassar we suggest a series of different types and sizes of gates, like pedestrian and driveway gates, sliding, cantilever, single or double leaf. Baldassar gates are in conformity with current European norms on accident prevention and are marked CE.

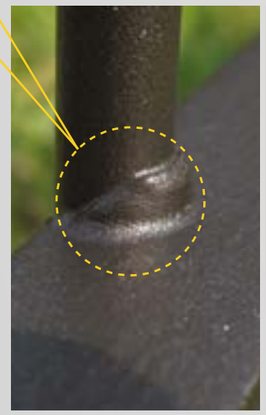
BALDASSAR FENCES *technology, design and reliability*

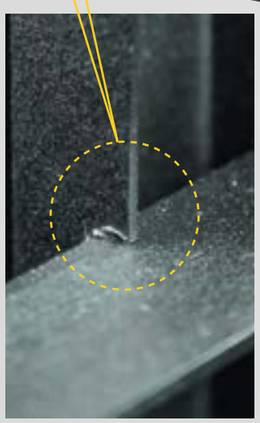
Ask for the catalog or visit our website www.GrigliatiBaldassar.com

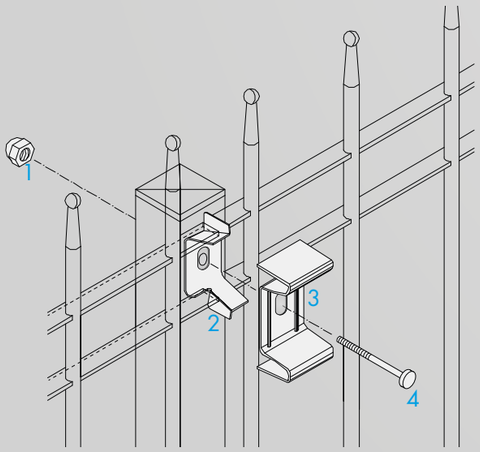
RIBES® & INFINITY®
In our range of fences the ones that stand out the most as far as design and appearance are the Baldassar models Ribes® & Infinity®, giving a strong as well as a distinguished visual impact. Both models are modular, and can easily enrich any boundary: Infinity®, with its square or round shape seems to tend endlessly to the horizon while the conical-roundish tops of Ribes® provide an extremely attractive and desired appearance.

Technologically unique

Baldassar Ribes® & Infinity® models are both produced with electro-welded technology without filling material added and after processing they are hot dip galvanized according to UNI EN ISO 1461:2009. The welding process of the bearing bars by electro-welding provides for a harder and more resistant structure. The powder coating with polyester resins for outdoor, completes the finishing process of these fences, protects them from weather wear and ensuring long life.



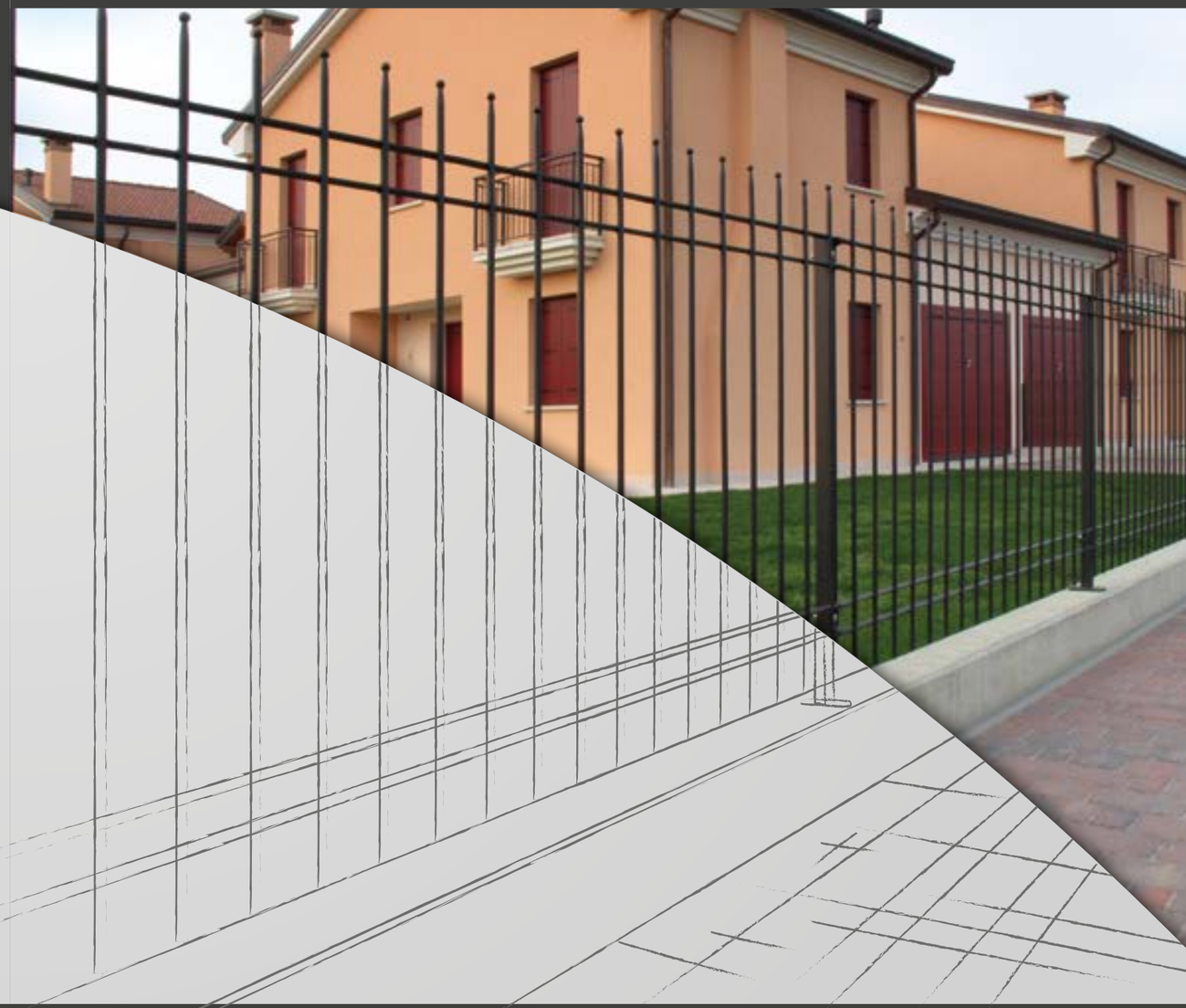




Easy assembly

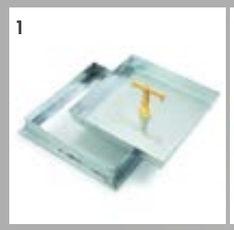
Easy to assemble: Ribes® and Infinity® come in modular panels that, thanks to a special fixing system, are easily assembled, therefore time and installation costs are much reduced. Furthermore the customization of the end pieces has been made in a way to be easily assembled on the installation site.The fixing elements are finished in coated steel, making them totally even out with the whole fence.

1) Locking nut
2) Locking flange
3) M shape clamp
4) Connecting screw



BALDASSAR ALSO MEANS BUILDING COMPONENTS

ask for the specific catalog or visit our website www.GrigliatiBaldassar.com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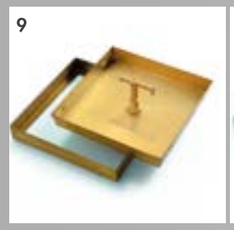
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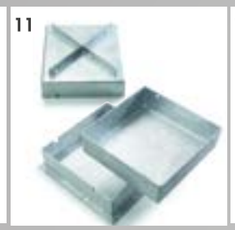
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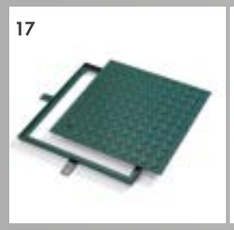
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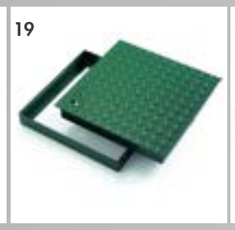
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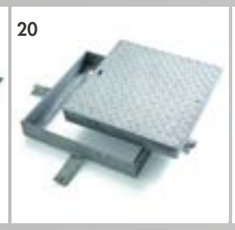
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26 INOX


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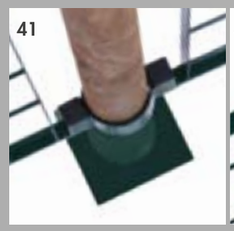
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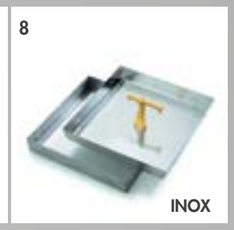
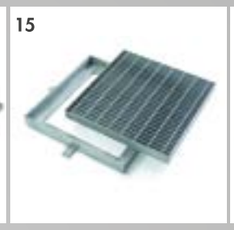

8 INOX


14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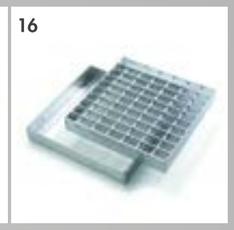
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24 INOX


30 INOX

31 INOX

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40

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1 Manhole Steel
2 Manhole Full
3 Manhole King
4 Manhole Road
5 Manhole Big
6 Manhole Tris
7 Manhole White
8 Manhole Inox Silver
9 Manhole Gold
10 Manhole Lock
11 Manhole Thor
12 Manhole Garden
13 Manhole Mark
14 Grid Basic Electro
15 Grid Truck
16 Drain Cross H50
17 Plate Green Lux
18 Plate Super Transit
19 Plate Transit Green
20 Plate Maxi
21 Tank Cover Power Green
22 Grid width siphon
23 Stainless steel drain
24 Well Mistral
25 Grid Bsic rectangular
26 Stainless steel Grid River
27 Grid Wolf
28 Grid Dog
29 Grid Felix
30 Gas Box Airox
31 Gas Door Ianox
32 Drying Rack Easy
33 Antenna Stand Arial
34 Satellite dish stand Pay
35 Base for poles square .?
36 Base for poles rounded .?
37 Base Fence
38 Column Call
39 Protection Light 4T
40 Locking system Power
41 Fixing Ring lower
42 Fixing Ring Upper
43 Euroclipper H80
44 Euroclipper H50
45 Pin PVC H80
46 Pin PVC H5

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