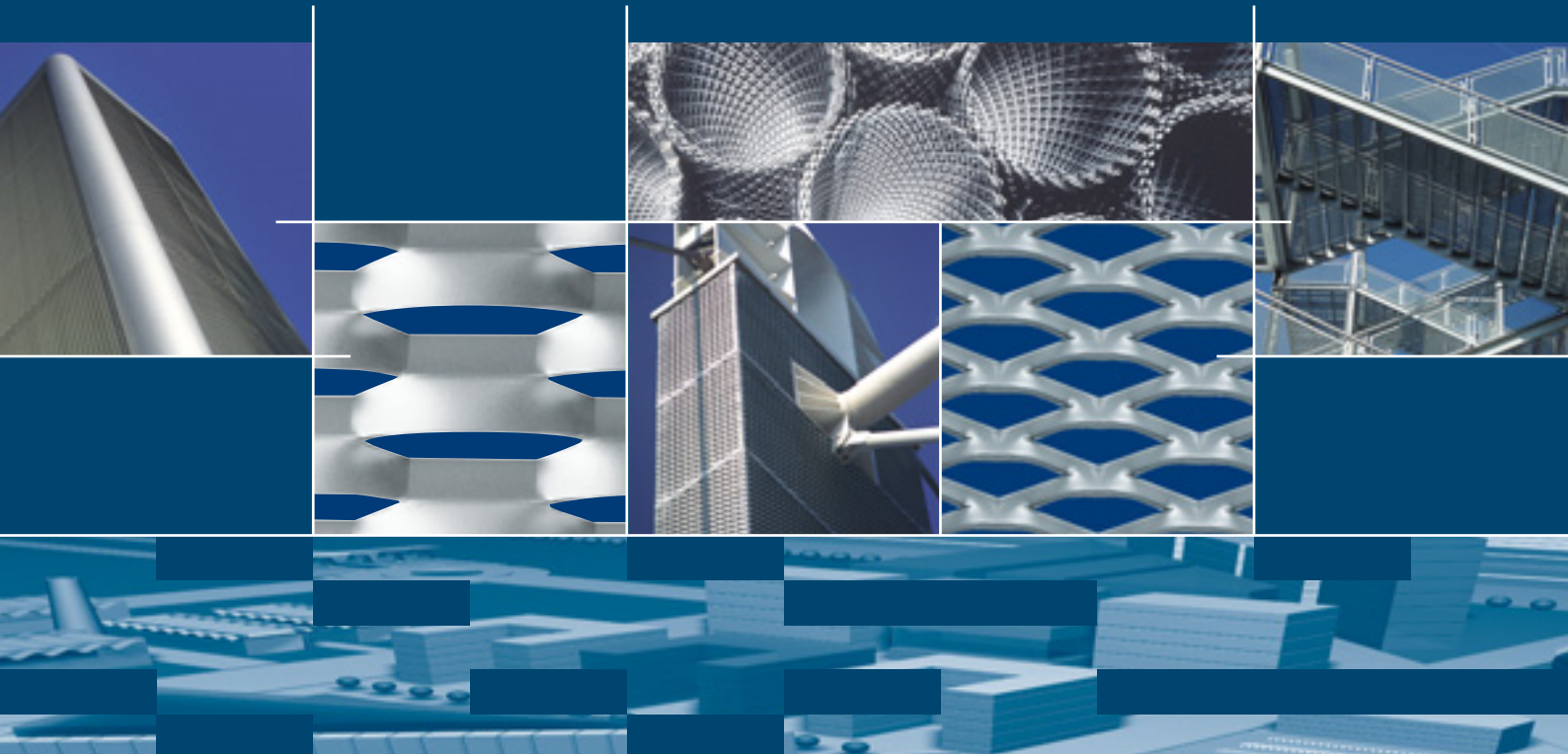
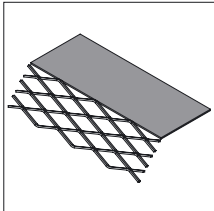
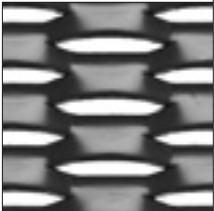
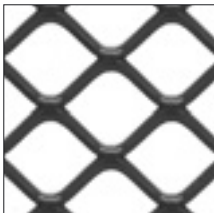
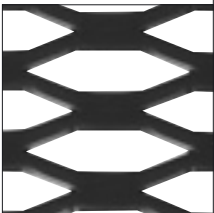
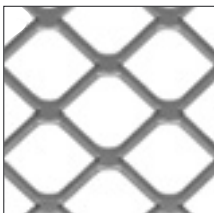
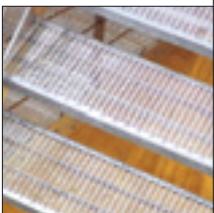
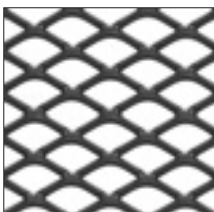
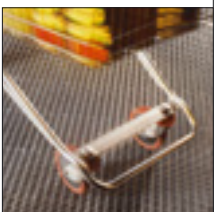
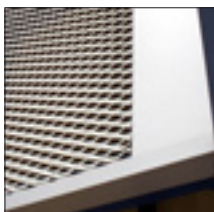
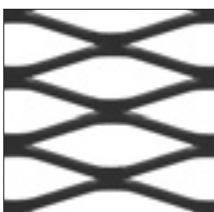
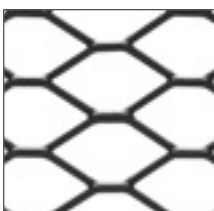


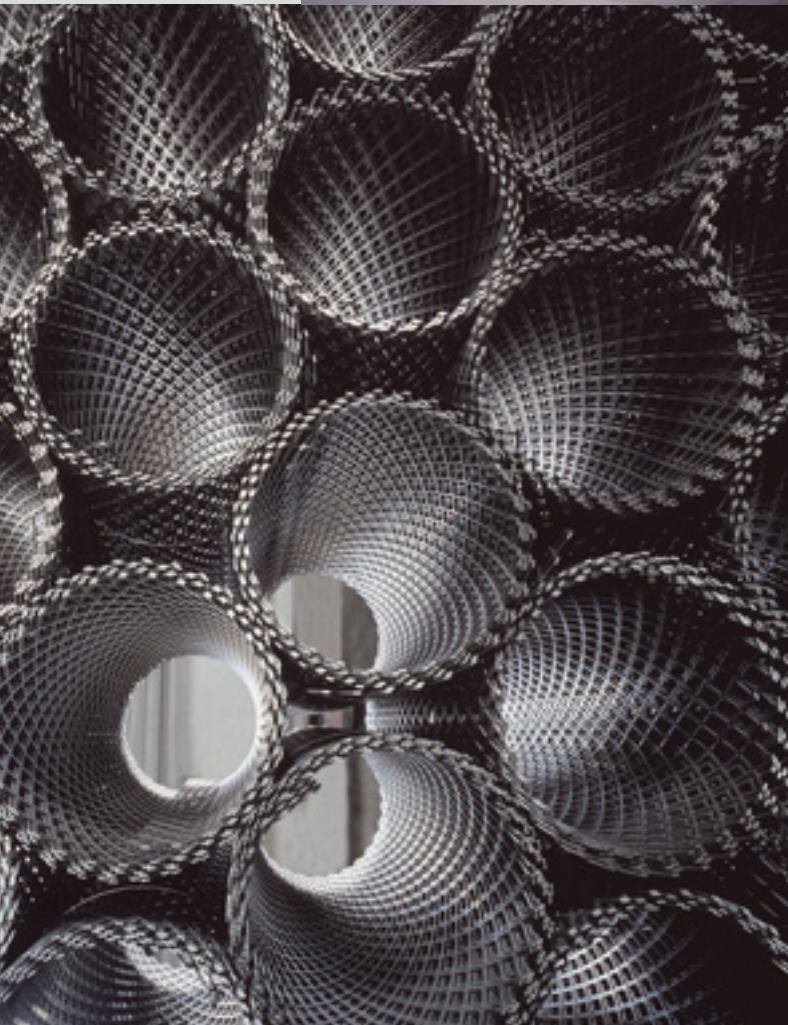


Catalogue of expanded metal patterns, expanded gratings and finished products

www.filis.it

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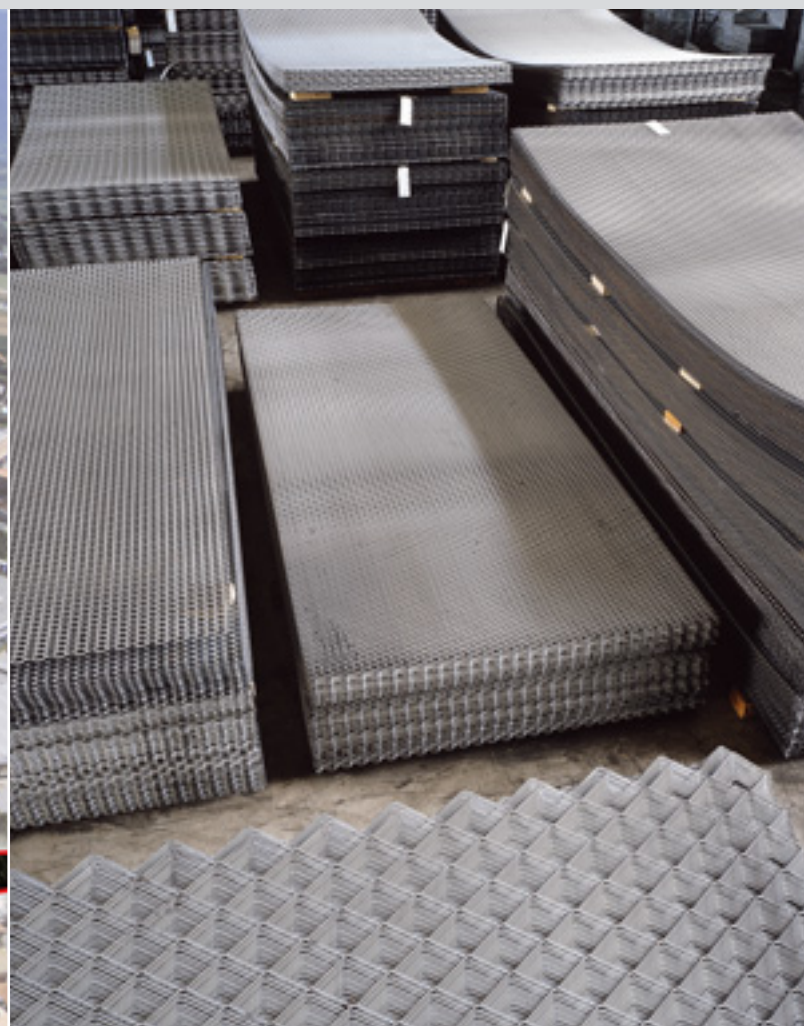
	8 Expanded mesh diagrams and characteristics		26 Gratings • expanded • ribbed ⓘ		48 Doormats
	10 Square mesh		30 Flattened SP gratings		49 Soakaway drains
	14 Aluminium square mesh		34 Stair treads		50 Panel fencing
	16 Diamond mesh		42 Landings		60 Protech meshes <i>protech</i>
	24 Flattened diamond mesh Toothed mesh		44 Gratings		
	25 Hexagonal mesh		46 Manhole covers Gully covers Support frames		





Making safety and quality the key goals of production: this is the driving concept behind **Fils S.p.A.**

The expanded mesh pattern and gratings are on the cutting edge of applications throughout the building industry.

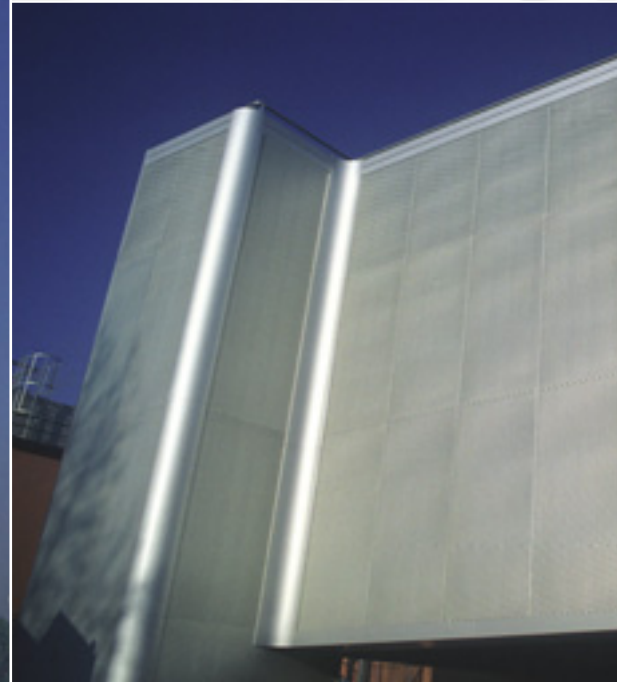
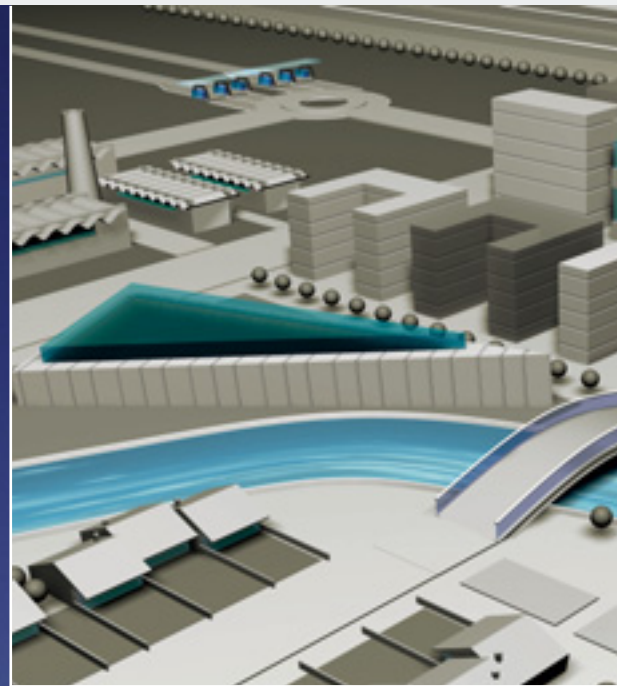




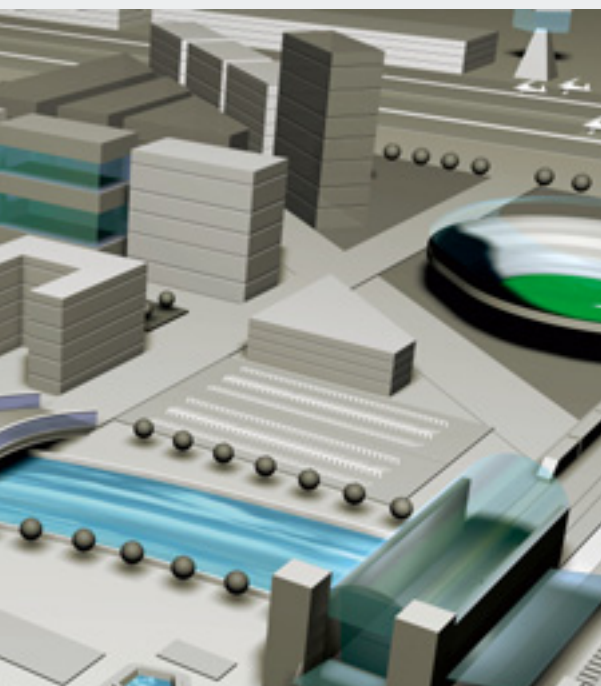
**Eclectic solutions for architecture:
with flattened mesh, the latest designs for top prestige.**



ACADEMY - DL 115 x DC 40 (48) - av 20 x sp 1.5 mm
Natural anodised aluminium



Fils expanded mesh offer the perfect solution for the technical/application needs of modern architecture, and especially where proven guarantees of safety and protection are required.



RESERVE - DL 90 x DC 30 (38) - av 18 x sp 1.5 mm
Natural anodised aluminium



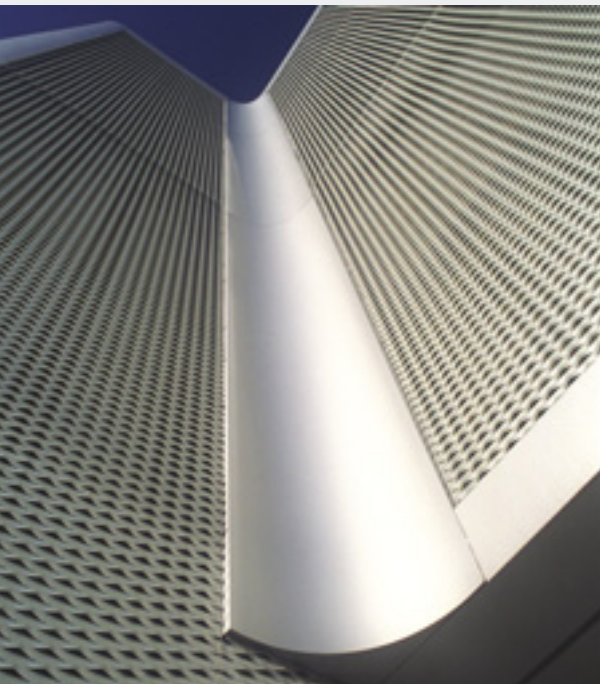
**Open - solid. Light - dark. Light and shadows.
Expanded mesh always offers a new look.**



ACADEMY - DL 115 x DC 40 (48) - av 20 x sp 1.5 mm
Natural anodised aluminium



Processing of different materials.
The technological process for expanded metal means we deal with a wide range of metal: steel, pre-galvanized steel, aluminium, copper, brass and stainless steel.



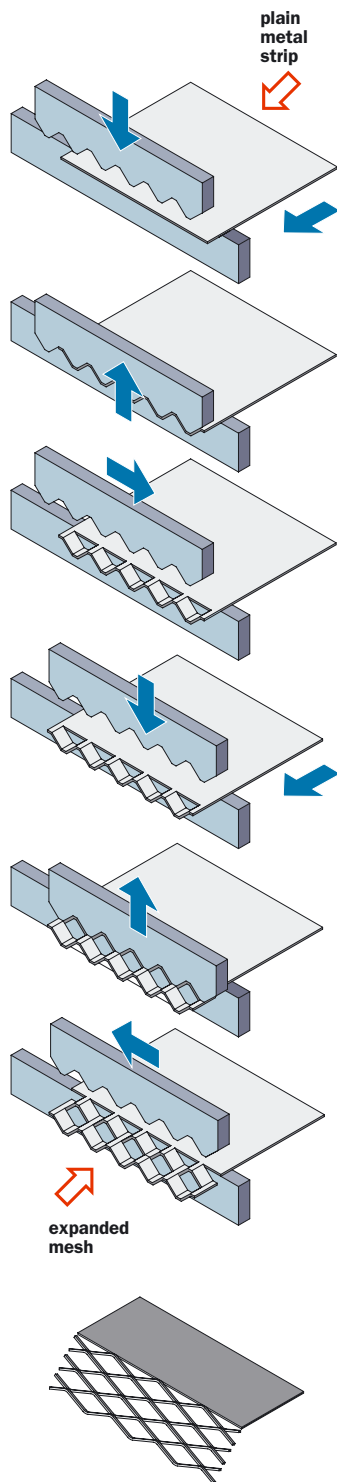
Eco-compatible, recyclable materials.

Our expanded metal processes have a low environmental impact; the resulting material can be easily recycled.

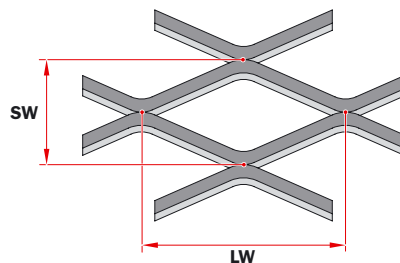
RESERVE - DL 90 x DC 30 (38) - av 18 x sp 1.5 mm
Natural anodised aluminium

Expanded mesh diagrams and characteristics

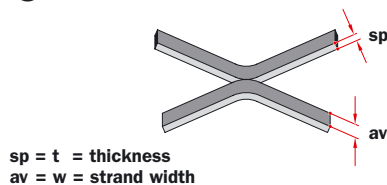
1 Expanding the metal



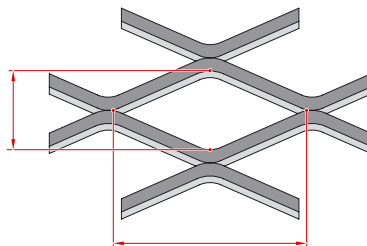
2 Mesh dimensions



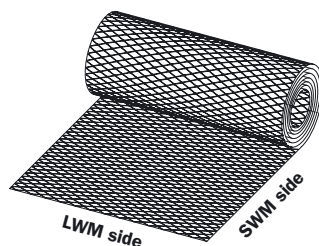
3 Mesh section



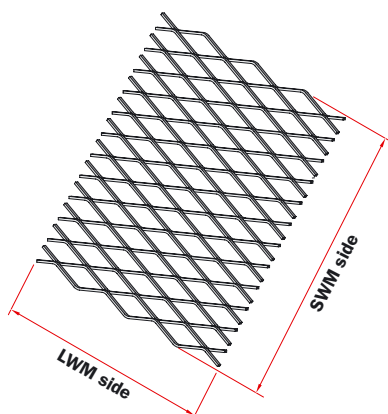
4 Dimensions of mesh opening



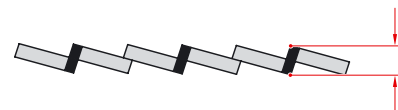
5 Roll of expanded mesh



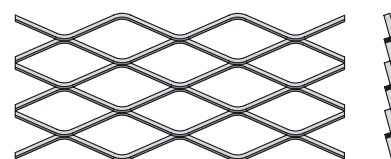
6 Sheet dimensions



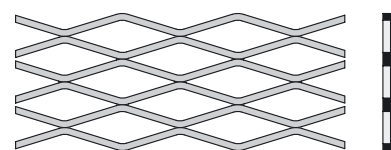
7 Final thickness of expanded meshes



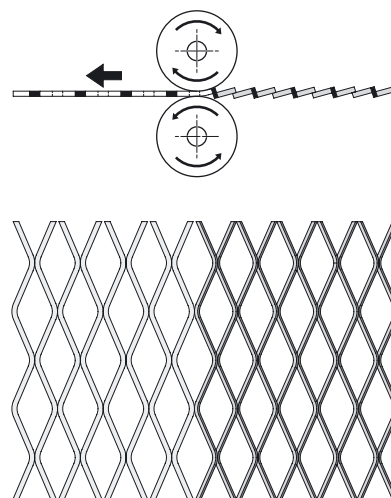
8 Expanded mesh, not flattened



9 Expanded mesh, flattened



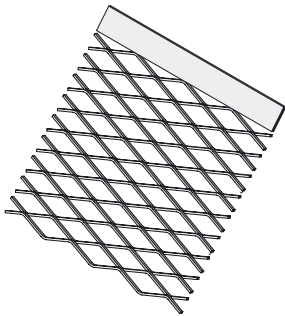
10 Flattening diagram



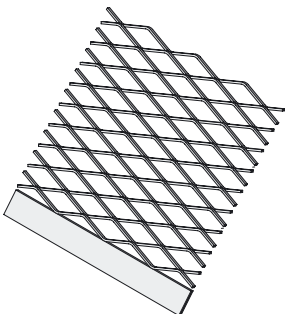
Our technicians are always ready to answer your queries.

SPECIAL DETAILS ON REQUEST

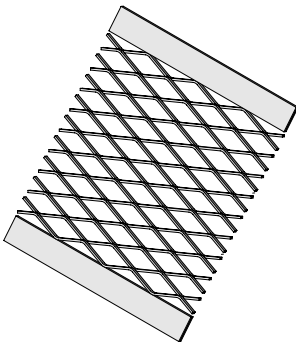
- 11** Plain edge at the beginning running parallel with LWM



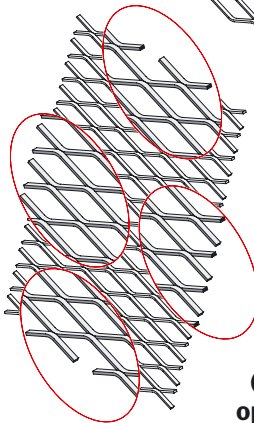
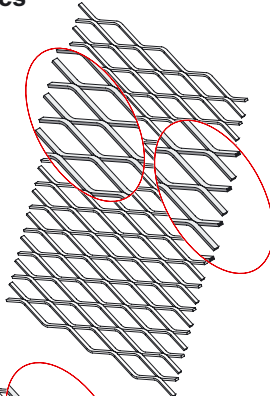
- 12** Plain edge at the end running parallel with LWM



- 13** Plain edges at the beginning and the end

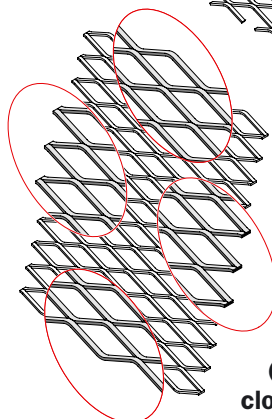
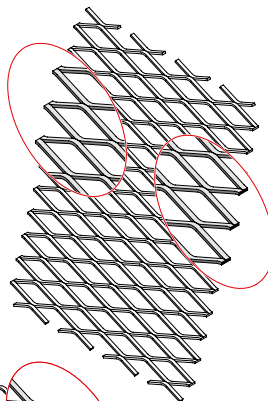


- 14** Length with open meshes both sides



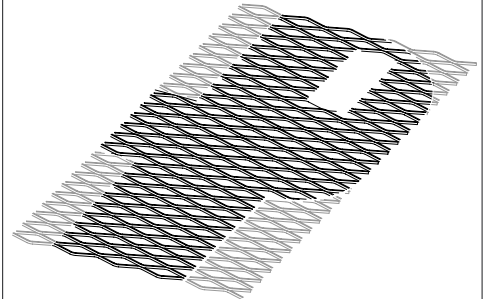
- 15** All sides open meshes

- 16** Length with closed meshes



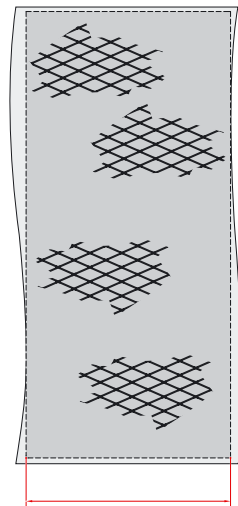
- 17** All sides closed meshes

- 18** Shaped plasma cutting

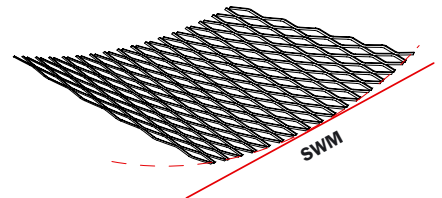


**POSSIBLE EXPANDING EFFECTS
PUT RIGHT WITH SPECIAL
REPROCESSING**

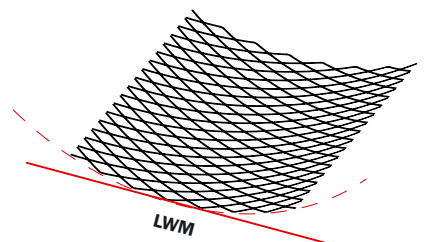
- 19** Buckling of mesh strip



- 20** Mesh bulging along SWM

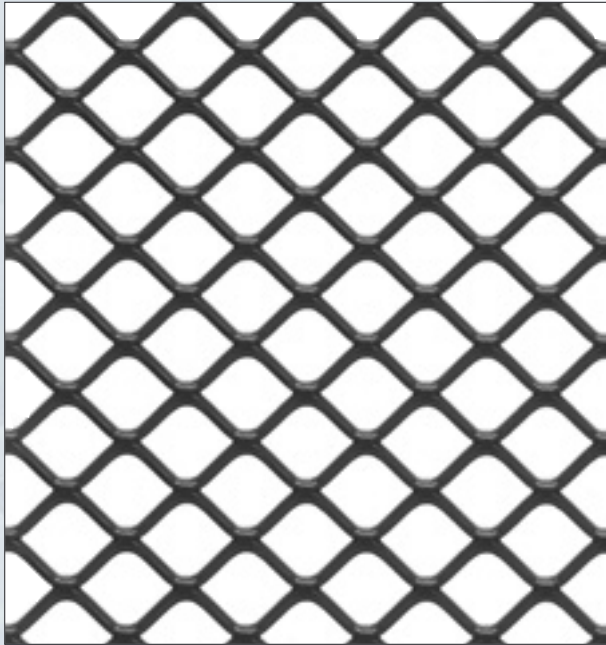


- 21** Mesh bulging along LWM

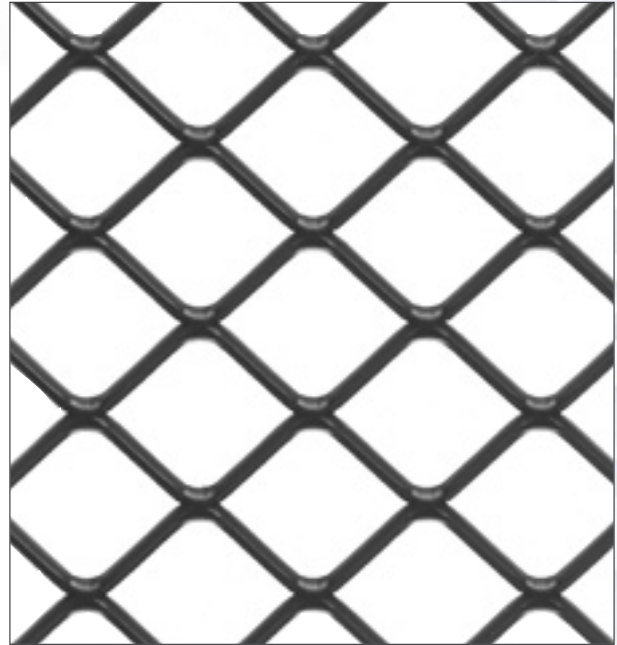


Expanded and flattened “Square” mesh

Mesh dimensions (1:1)



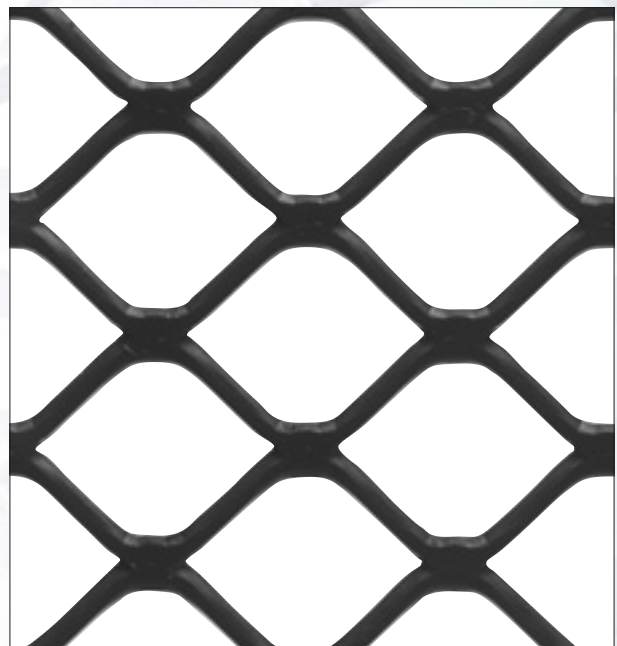
Type SQ 16



Type SQ 30



Type SQ 20



Type SQ 40

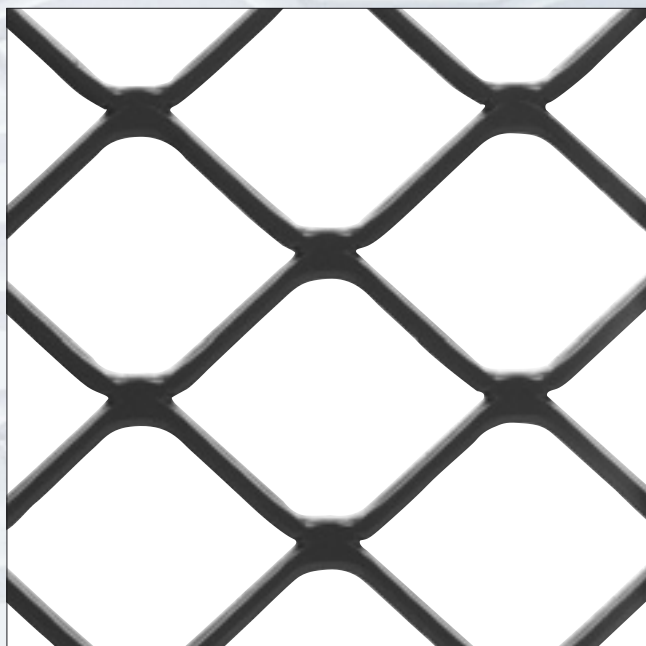
The mesh patterns highlighted in the table are the most popular and are competitively priced compared to welded wire mesh and perforated metal.

All meshes are expanded from carbon steel. On request some meshes can be processed from pre-galvanized steel, aluminium, copper and brass.

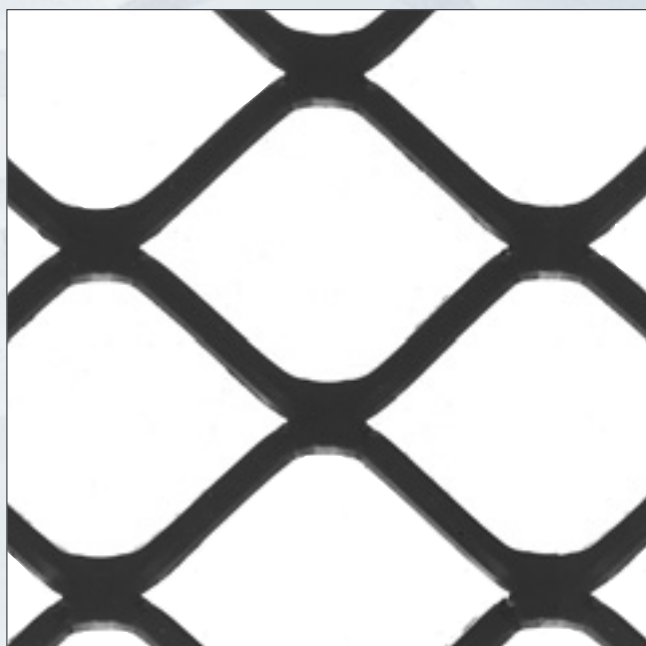
Expanded metal sheets can be supplied in standard size or made to order.

Square meshes are usually flattened but can be also supplied raised on request.

Certified mesh
for sliding gates



Type SQ 50



Type SQ 60

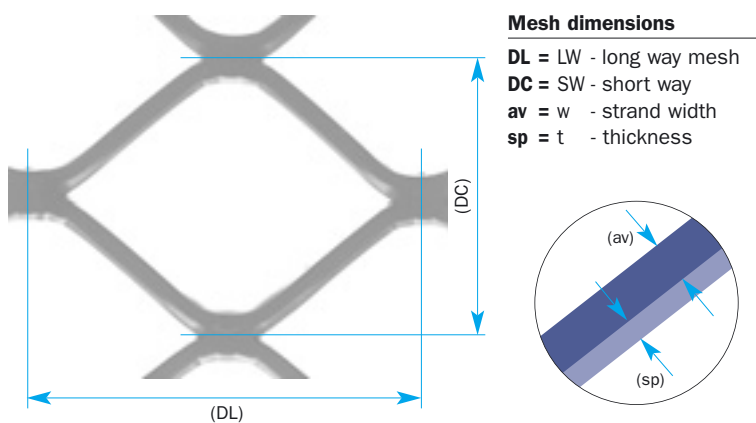


Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
SQ 16 sp 1	16 x 13	16 x 13	1.5	1	1.7	made to order	made to order
SQ 16 sp 1.5	16 x 13	16 x 13	1.5	1.5	2.7	1000	2000
SQ 20 sp 1	20 x 15.5	20 x 15.5	1.5	1	1.6	made to order	made to order
SQ 20 sp 1.5	20 x 15.5	20 x 15.5	1.7	1.5	2.5	1000	2000
SQ 30 sp 1.5	30 x 24.3	30 x 24.3	1.5	1.5	1.5	made to order	made to order
SQ 30 sp 2	30 x 24.3	30 x 24.3	2	2	2.5	1000	2000
SQ 40 sp 2	40 x 30	40 x 30	3	2	3.2	made to order	made to order
SQ 40 sp 2.5	40 x 30	40 x 30	3	2.5	4	1000	2000
SQ 50 sp 2.5	50 x 37	50 x 37	4	2.5	4.2	made to order	made to order
SQ 50 sp 3	50 x 37	50 x 37	4	3	5.1	1000	2000
SQ 60 sp 2.5	60 x 45	60 x 45	4.5	2.5	4	made to order	made to order
SQ 60 sp 3	60 x 45	60 x 45	4.5	3	4.8	1000	2000

S = Flattened
Q = Square

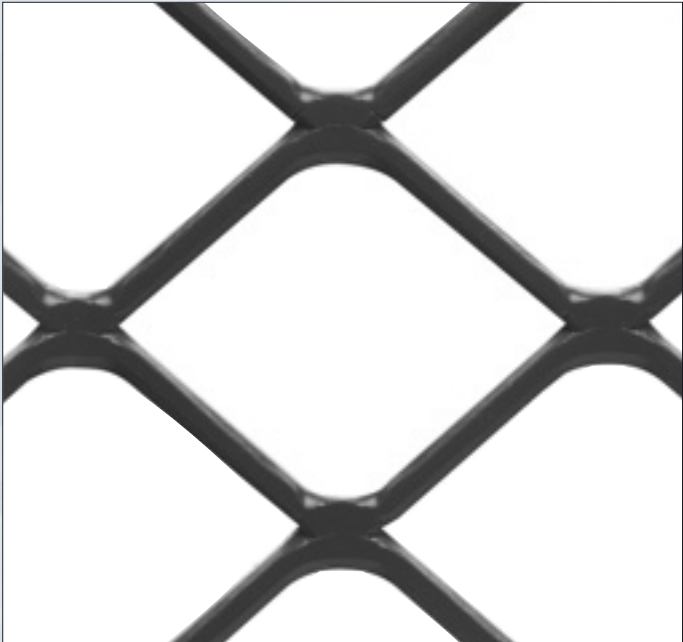
The weights given in the table
are indicative and refer to steel mesh

The highlighted data are for the mesh
in the photos.



Expanded and flattened “Square” mesh

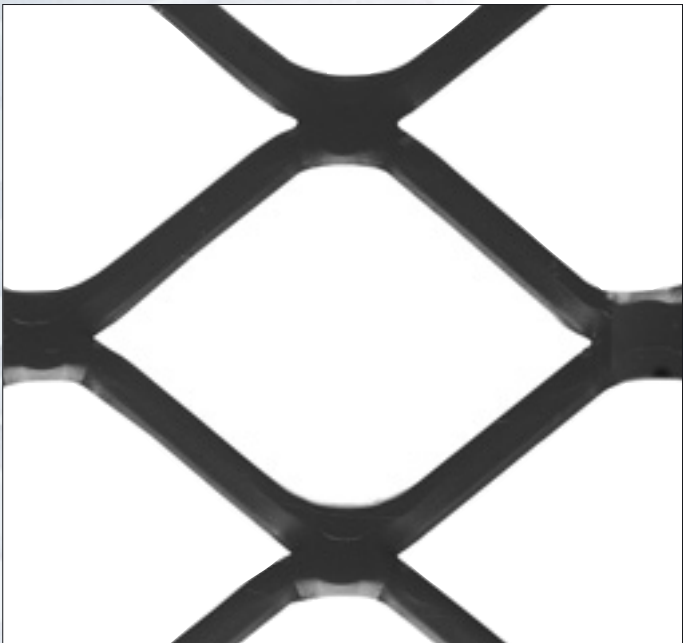
Mesh dimensions (1:1)



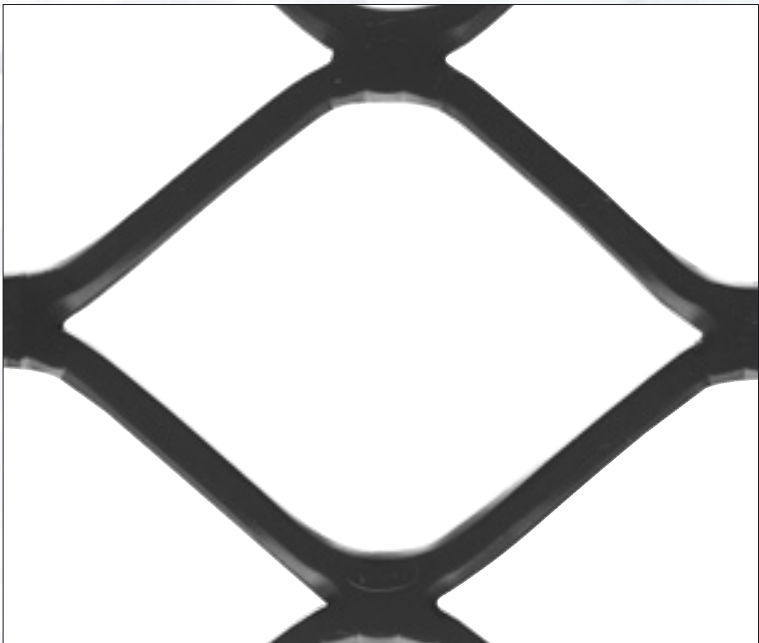
Type SQ 70



Type SQ 90



Type SQ 80



Type SQ 100

The mesh patterns highlighted in the table are the most popular and are competitively priced compared to welded wire mesh and perforated metal.

All meshes are expanded from carbon steel. On request some meshes can

be processed from pre-galvanized steel, aluminium, copper and brass in standard size sheets or made to order.

All types of expanded mesh can also be flattened on request.

1 - DL Q 120 x DC 87 (80) - av 6 - sp 4 mm
Steel painted with polyester powder exterior paint

2/3 - DL Q 80 x DC 52 (52) - av 6 - sp 4 mm
Steel painted with polyester powder exterior paint

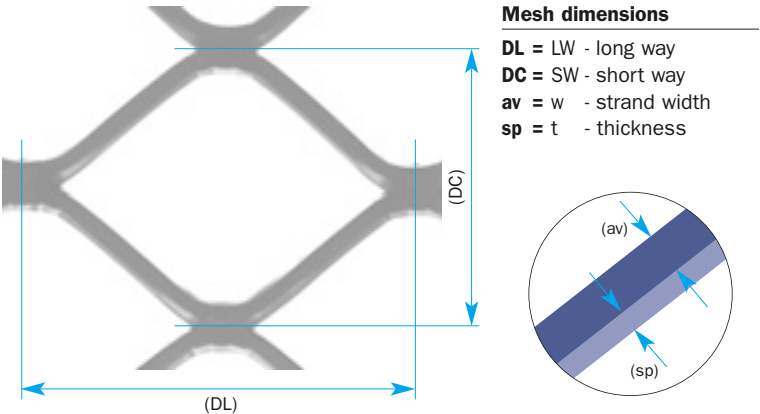


Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
SQ 70 sp 3	70 x 53	70 x 53	5	3	4.5	1000	2000
SQ 70 sp 4	70 x 53	70 x 53	6	4	7.1	1000	2000
SQ 80 sp 3	80 x 56	80 x 56	5	3	4.2	1000	2000
SQ 80 sp 4	80 x 56	80 x 56	6.2	4	6.9	1000	2000
SQ 90 sp 3	90 x 64	90 x 64	5	3	3.7	made to order	made to order
SQ 90 sp 4	90 x 64	90 x 64	6	4	5.9	1000	2000
SQ 100 sp 3	100 x 74	100 x 74	6	3	3.9	made to order	made to order
SQ 100 sp 4	100 x 74	100 x 74	6	4	5.1	1000	2000

S = Flattened
Q = Square

The weights given in the table are indicative and refer to steel mesh

The highlighted data are for the mesh in the photos.



1



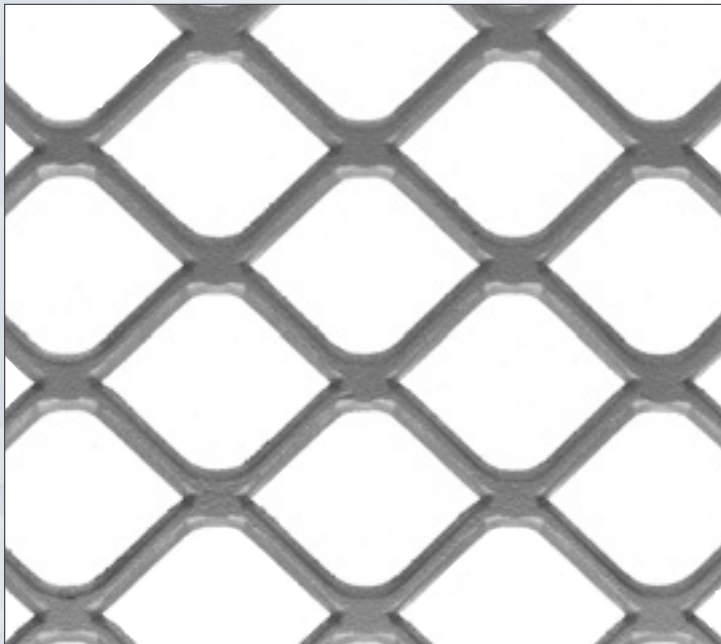
2



3

Expanded and flattened “Square” mesh Aluminium

Mesh dimensions (1:1)



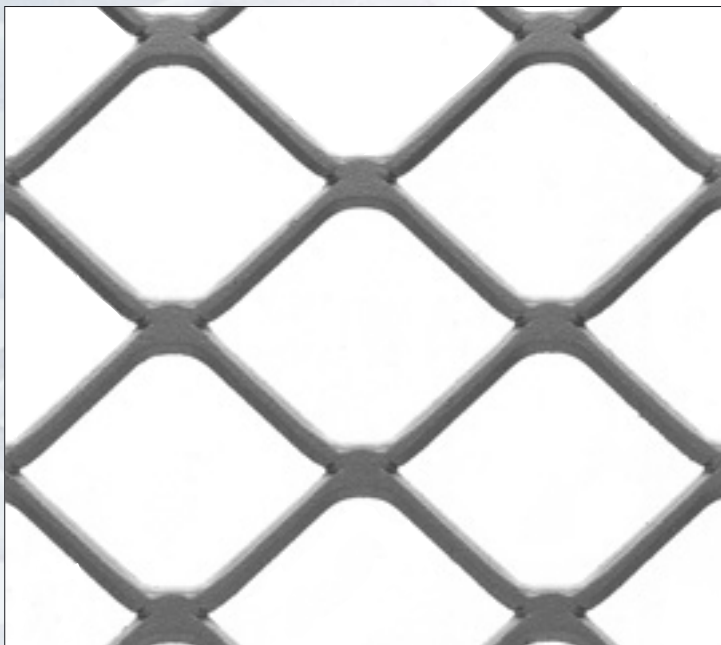
Aluminium

Type SQ 40



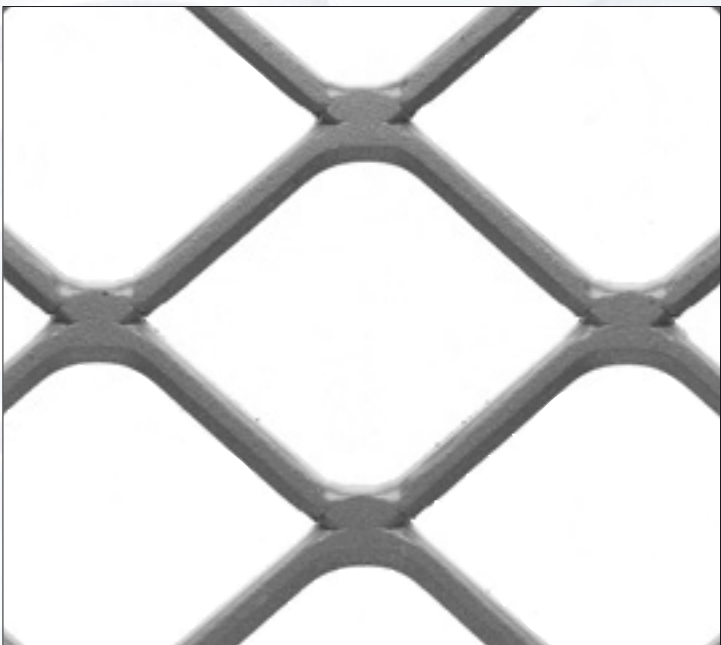
Aluminium

Type SQ 60



Aluminium

Type SQ 50



Aluminium

Type SQ 70

FILS 21 - DL 45 x DC 15 (13.4) - av 5 x sp 1.5 mm
GATE - DL 76 x DC 31 (35) - av 11 x sp 1.5 mm
Natural anodised aluminium

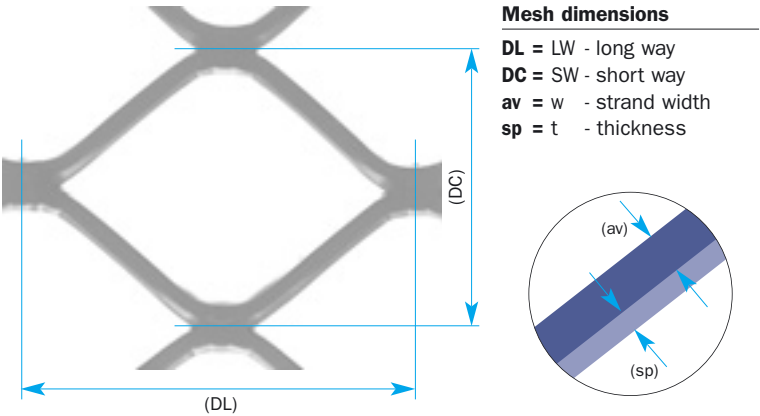


Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
SQ 40 sp 3	40 x 30	40 x 30	3.5	3	1.9	made to order	made to order
Q 40 sp 3	40 x 30	40 x 27	3.5	3	2.1	made to order	made to order
SQ 50 sp 3	50 x 37	50 x 37	3.5	3	1.6	made to order	made to order
Q 50 sp 3	50 x 37	50 x 35	3.5	3	1.8	made to order	made to order
SQ 60 sp 4	60 x 45	60 x 45	4.5	4	2.2	made to order	made to order
Q 60 sp 4	60 x 45	60 x 41	4.5	4	2.65	made to order	made to order
SQ 70 sp 4	70 x 53	70 x 53	4.8	4	2	made to order	made to order
Q 70 sp 4	70 x 53	70 x 48	4.8	4	2.2	made to order	made to order

S = Flattened

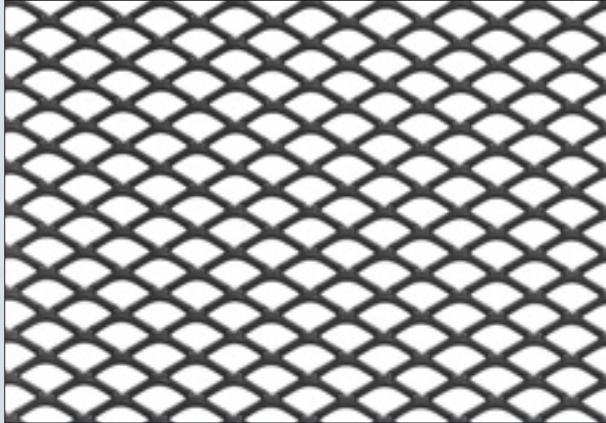
Q = Square

The highlighted data are for the mesh in the photos.



Expanded “Diamond” mesh

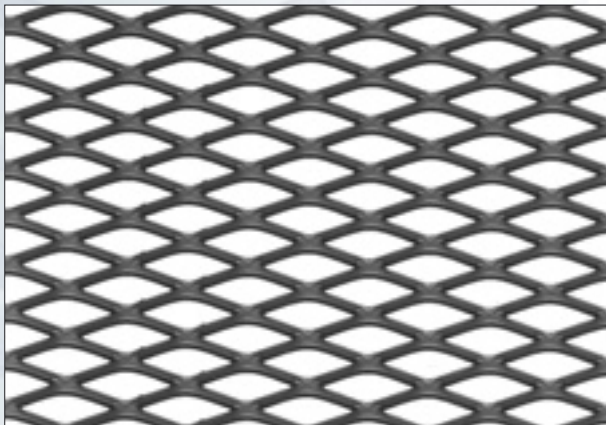
Mesh dimensions (1:1)



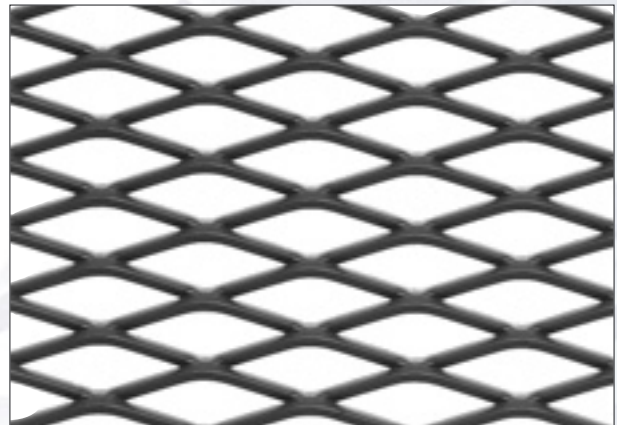
Types 6610 - 6615



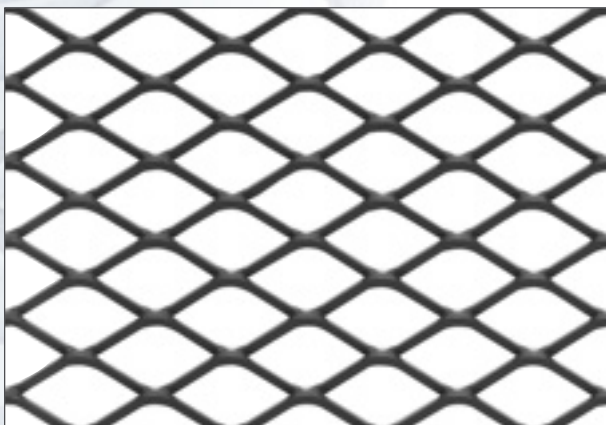
Types 1 BB - 54



Types 56 - 57 - 58



Type 25



Types 37 - 38 - 39



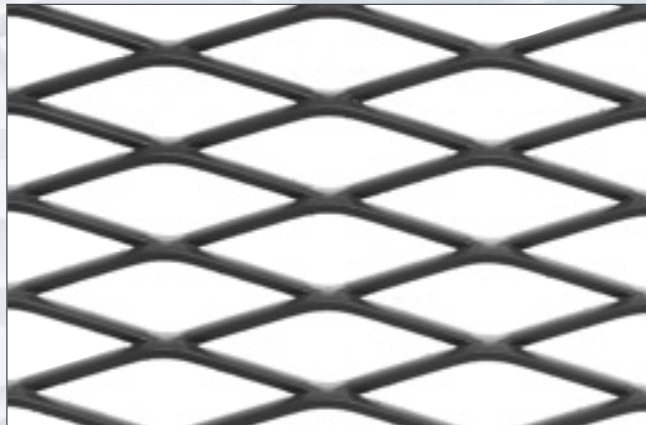
Types 29 - 31

The mesh patterns highlighted in the table are the most popular and are competitively priced compared to welded wire mesh and perforated metal.

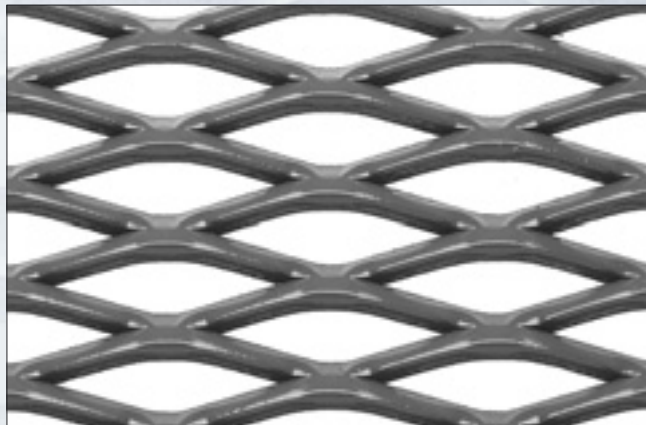
All meshes are expanded from carbon steel. On request some meshes can

be processed from pre-galvanized steel, aluminium, copper, brass and stainless in standard size sheets or made to order.

All types of expanded mesh can also be flattened on request.



Types 2 - 17 - 28



Type 43



Types 27 - 41

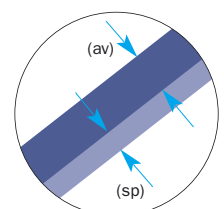
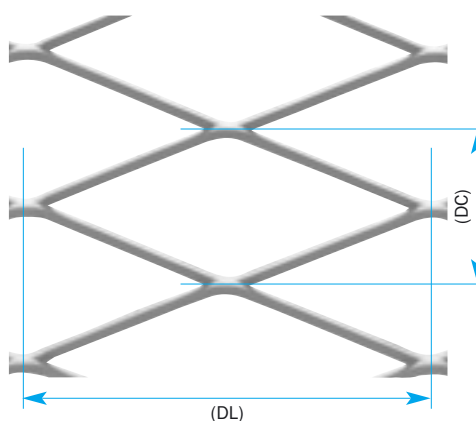
Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
6610	10 x 6	10 x 6	1.2	1	3.2	1000	6000
6615	10 x 6	10 x 6	1.5	1	4	1000	6000
56	16 x 6	16 x 6	1.2	1	3.1	1000 - 1250	6000
57	16 x 6	16 x 6	1.5	1	4	1000 - 1250	6000
58	16 x 6	16 x 6	1.5	1.5	5.7	1000 - 1250	6000
37	20 x 10	20 x 10	2.2	1	3.4	1000	6000
38	20 x 10	20 x 10	1.6	1.5	3.7	1000	6000
39	20 x 10	20 x 10.2	2.2	1.5	5	1000	6000
1 BB	28 x 6	28 x 7.8	2	1	4	1000 - 1250	6000
54	28 x 6	28 x 7.8	2	1.5	6	1000 - 1250	6000
25	28 x 10	28 x 10	2	1.5	4.8	1000 - 1250 - 1500	6000
29	28 x 14	28 x 13	2	1	2.5	1000	6000
31	28 x 14	28 x 13.5	2	1.5	3.5	1000 - 1250	6000
2	43 x 10	43 x 13	2.5	1	2.75	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 3400
17	43 x 10	43 x 13	2.5	1.5	4.2	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 3400
28	43 x 10	43 x 13	2.5	2	5.5	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 3400
43	43 x 10	43 x 13.3	3	3	10.5	1000 1250	2000 2500
27	43 x 17	43 x 16.2	2.5	1.5	3.8	1000 1000	2000 6000
41	43 x 17	43 x 18.5	5	3	12.5	1000	2000

The highlighted data are for the mesh in the photos.

The weights given in the table are indicative and refer to steel mesh

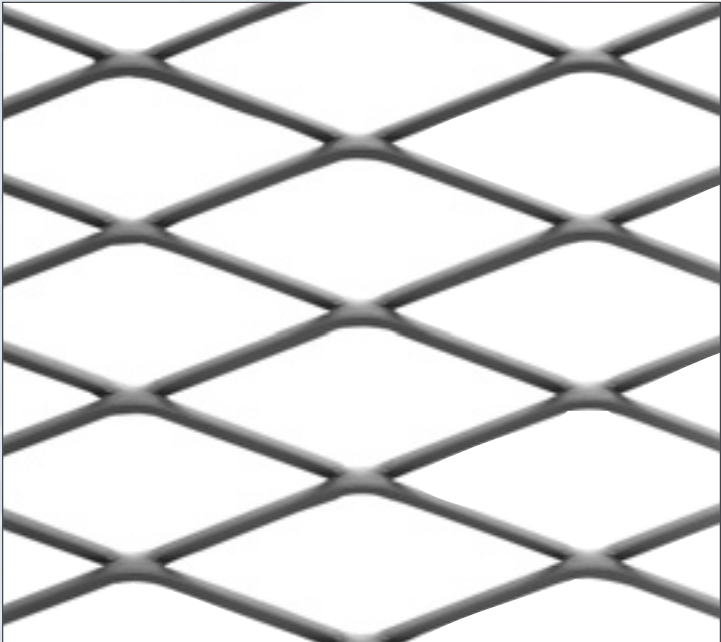
Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness

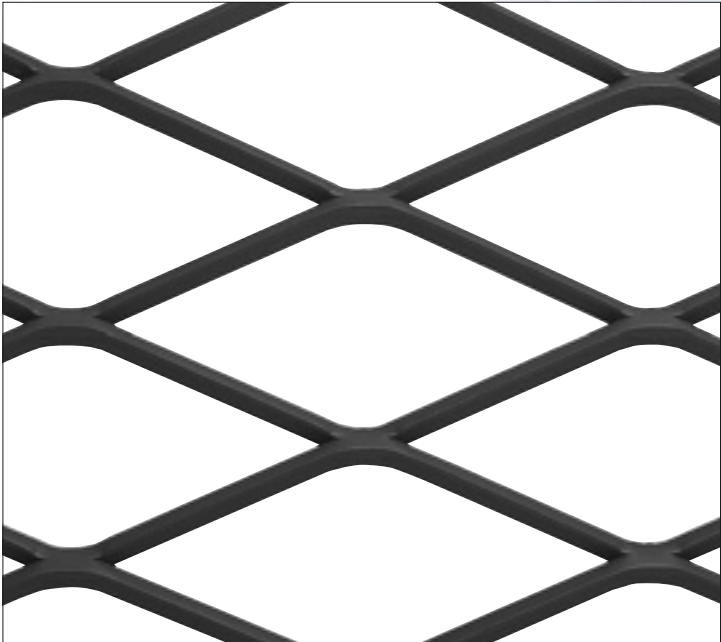


Expanded “Diamond” mesh

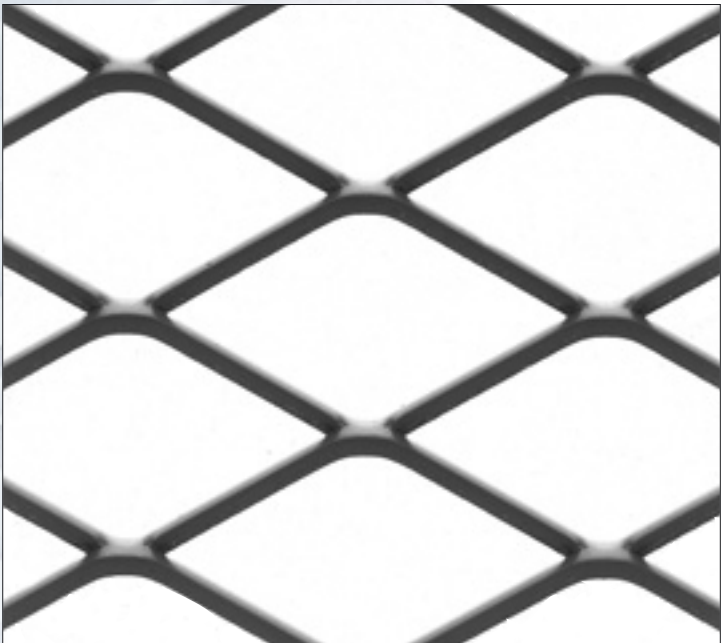
Mesh dimensions (1:1)



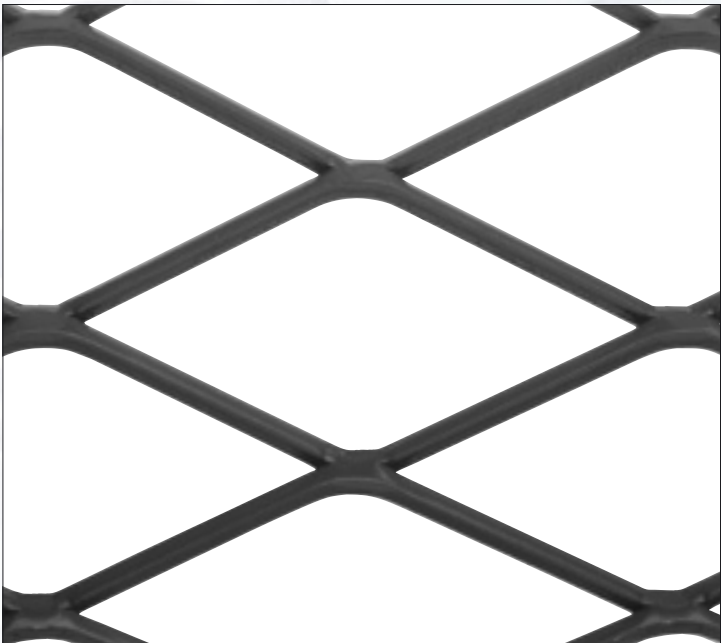
Types 3 - 4 - 220 - 19 - 22 - 40



Type 76



Type 60



Type 85





TYPE 25 - DL 28 x DC 10 (10) - av 1.5 - sp 1.5 mm
Steel painted with polyester powdered exterior paint

DL 62.5 x DC 20 (19) - av 4 x sp 4 mm
Aluminium

Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
3	62.5 x 20	62.5 x 23	3	1	1.95	1000 - 1250 - 1500 2000 - 2500	6000 5000
4	62.5 x 20	62.5 x 23	3	1.5	3	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 5000
220	62.5 x 20	62.5 x 23	3	2	4.2	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 5000
19	62.5 x 20	62.5 x 23.4	3	3	6.3	1000 - 1250 - 1500	6000
22	62.5 x 20	62.5 x 23.4	4.5	3	8.8	1000 - 1250 - 1500	4500
40	62.5 x 20	62.5 x 23.4	6	3	12	1000 - 1250 - 1500	3000
60	62.5 x 30	62.5 x 33	3	3	4.2	1000 - 1250 - 1500	6000
76	76 x 31	76 x 31	3	3	4.5	1000	6000
85	85 x 40	85 x 40	3	3	3.5	1000 - 1250 - 1500	6000

Roll or sheet sizes available

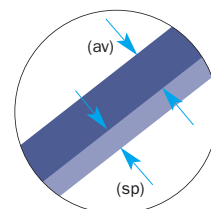
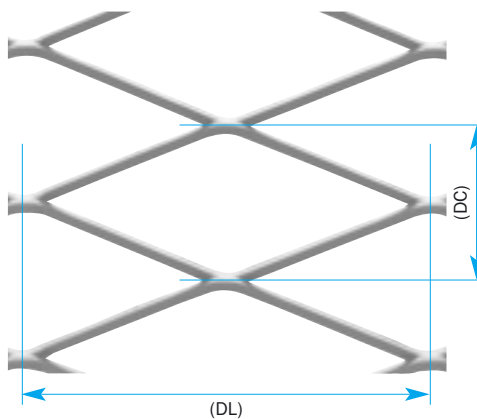
The highlighted data are for the mesh in the photos.

The weights given in the table are indicative and refer to steel mesh

All meshes are expanded from carbon steel. On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.

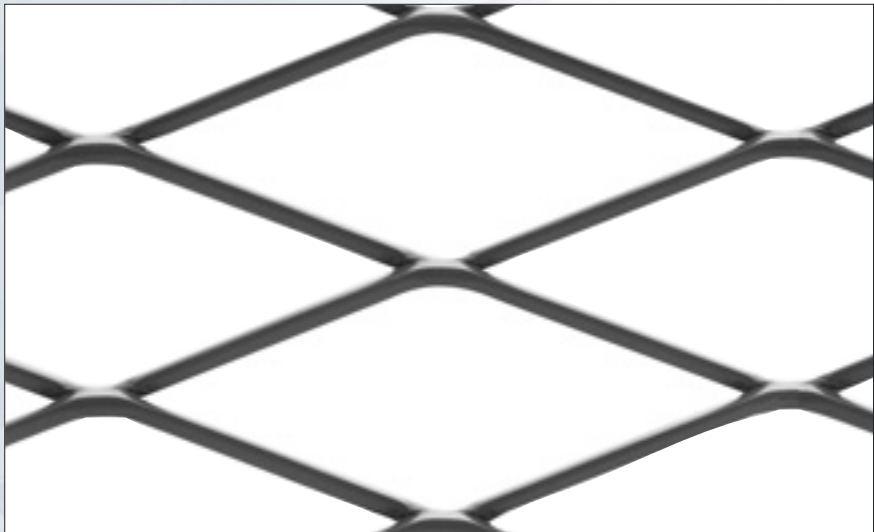
Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness

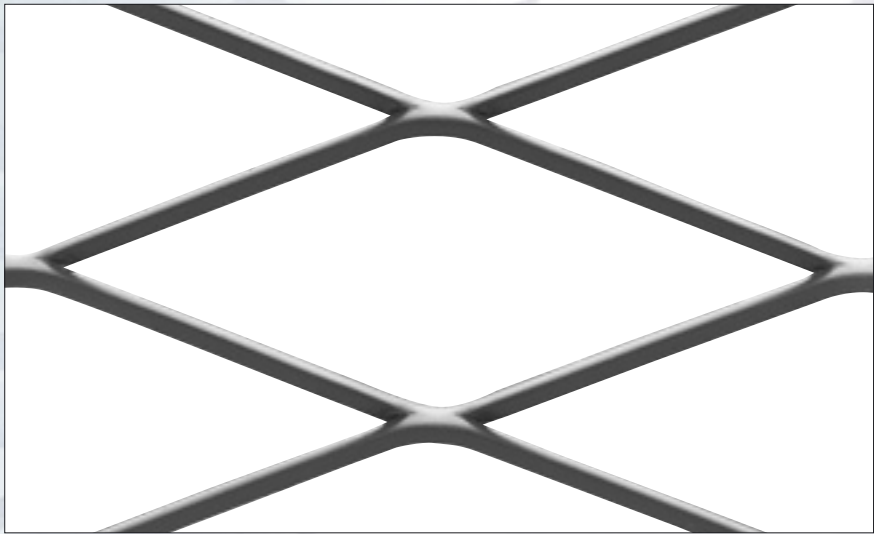


Expanded “Diamond” mesh

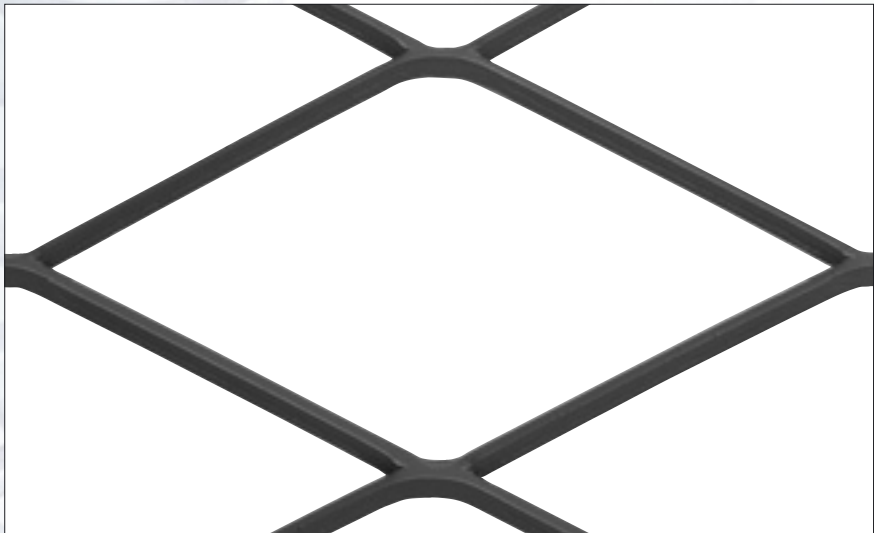
Mesh dimensions (1:1)



Type 33



Types 24 - 21 - 24 A



Types 73 - 74 - 75

All meshes are expanded from carbon steel.
On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.

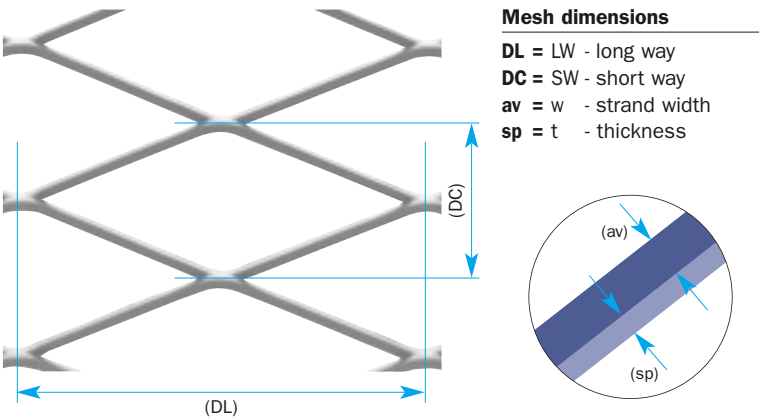
- 1 - AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1,5 mm
TIPO 24 A - DL 110 x DC 40 (43) - av 6 - sp 3 mm
Steel painted with polyester powder exterior paint
- 2 - TYPE 24 A - DL 110 x DC 40 (43) - av 6 - sp 3 mm
Natural anodised aluminium
FILS 21 - DL 45 x DC 15 (13.4) - av 5 x sp 3 mm
Hot dip galvanised steel



Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
33	90 x 30	90 x 30	3	3	4.3	1000 - 1250 - 1500	6000
24	110 x 40	110 x 40	3	3	3.6	1000 - 1250 - 1500 2000 - 2500	10000
21	110 x 40	110 x 40	4.5	3	5.2	1000 - 1250 - 1500 2000 - 2500	6500
24 A	110 x 40	110 x 43	6	3	6.5	1000 - 1250 - 1500 2000 - 2500	5000
73	115 x 55	115 x 63	3	3	2.5	made to order	made to order
74	115 x 55	115 x 55	4	3	3.4	made to order	made to order
75	115 x 55	115 x 63	5	3	4.5	made to order	made to order

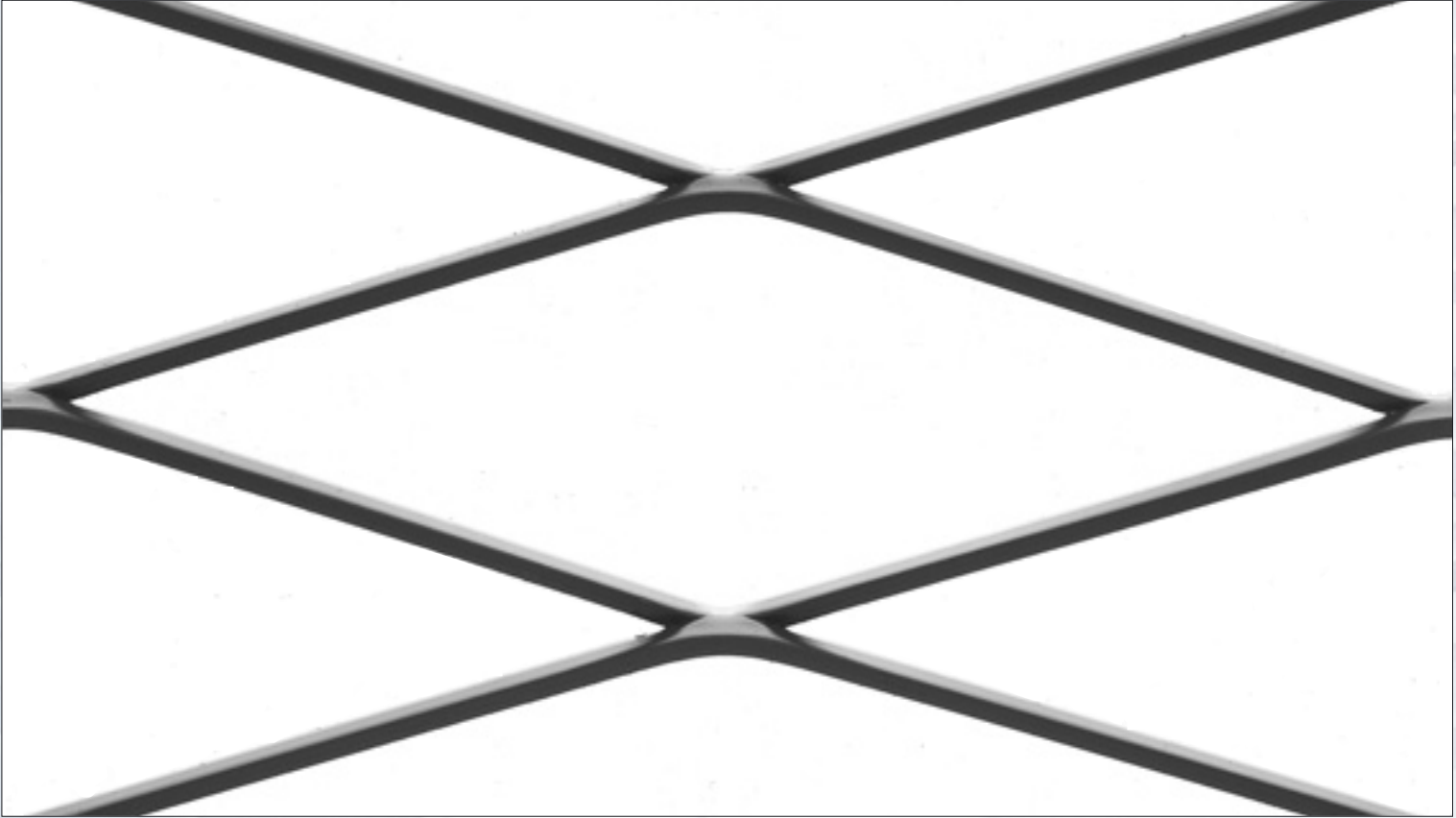
The highlighted data are for the mesh in the photos.

The weights given in the table are indicative and refer to steel grating

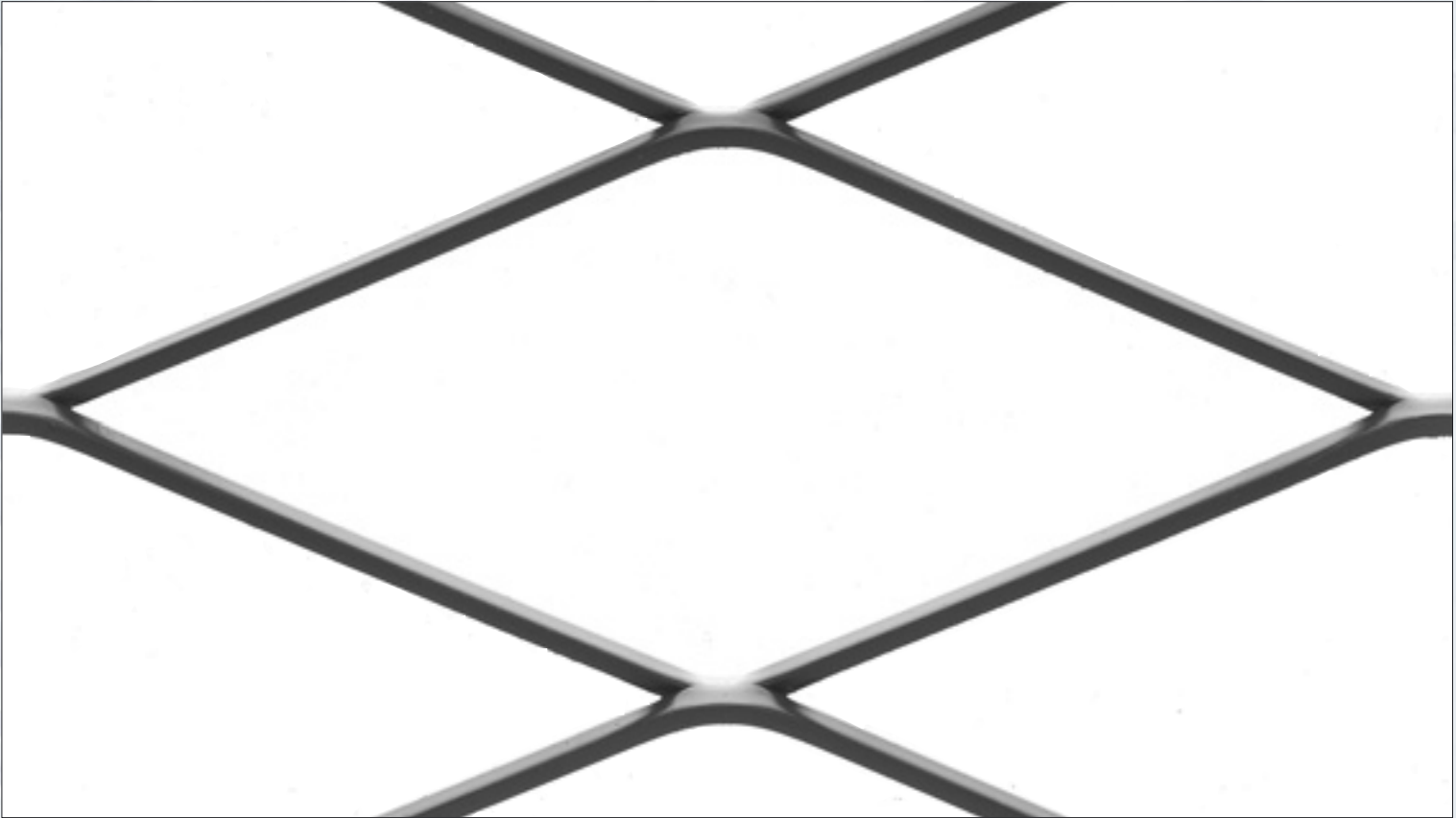


Expanded “Diamond” mesh

Mesh dimensions (1:1)



Types 44 - 45 - 48



Types 8 - 9 - 13

Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
44	200 x 55	200 x 62	4.7	3	3.6	1000 - 1250 - 1500 2000 - 2500	9000
45	200 x 55	200 x 62	6.2	3	4.7	1000 - 1250 - 1500 2000 - 2500	7000
48	200 x 55	200 x 62	5.4	5	6.7	1000 - 1250 - 1500 2000 - 2500	8000
8	200 x 75	200 x 80	6.6	3	3.9	1000 - 1250 - 1500 2000 - 2500	10000
9	200 x 75	200 x 80	4.5	3	2.9	1000 - 1250 - 1500 2000 - 2500	12000
13	200 x 75	200 x 80	5.3	5	5.1	1000 - 1250 - 1500 2000 - 2500	11000

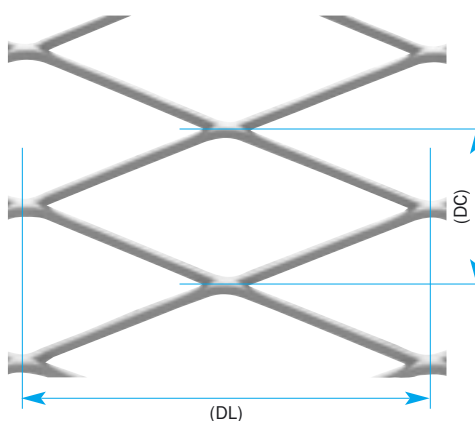
The highlighted data are for the mesh in the photos.

The weights given in the table are indicative and refer to steel grating

All meshes are expanded from carbon steel. On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.

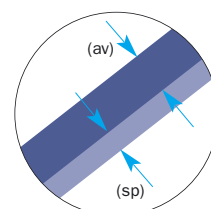


DL S 200 x DC 100 (125) - av 5 - sp 3 mm
Hot dip galvanised steel



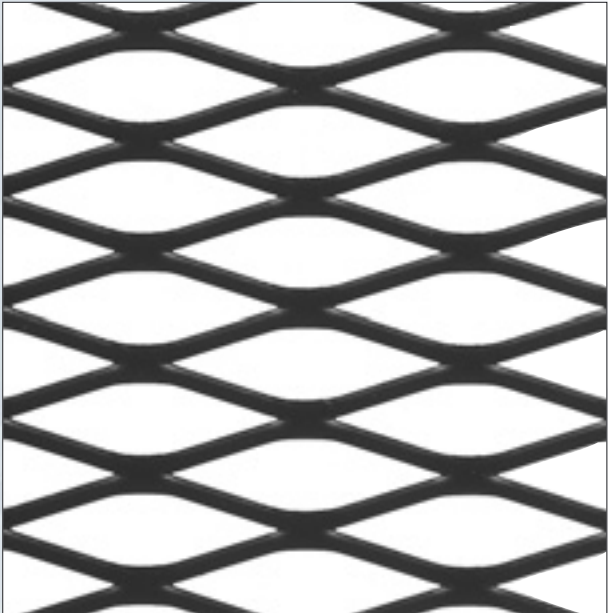
Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness



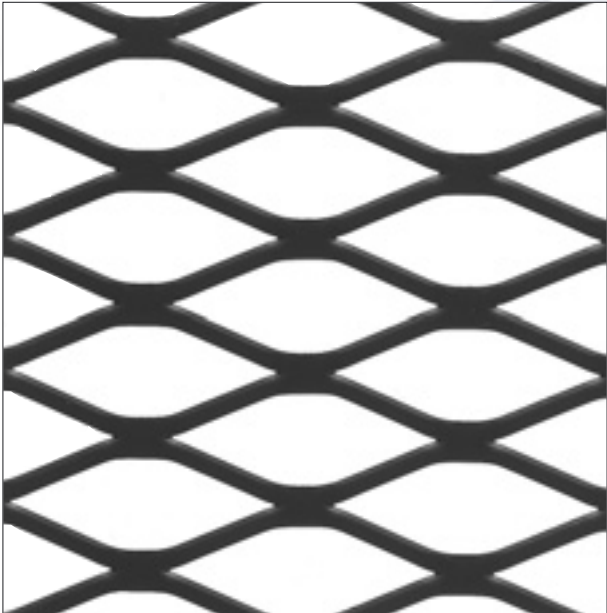
Expanded - flattened “Diamond” mesh
Expanded “Hexagonal” mesh
Expanded “Toothed Diamond” mesh

Flattened diamond mesh



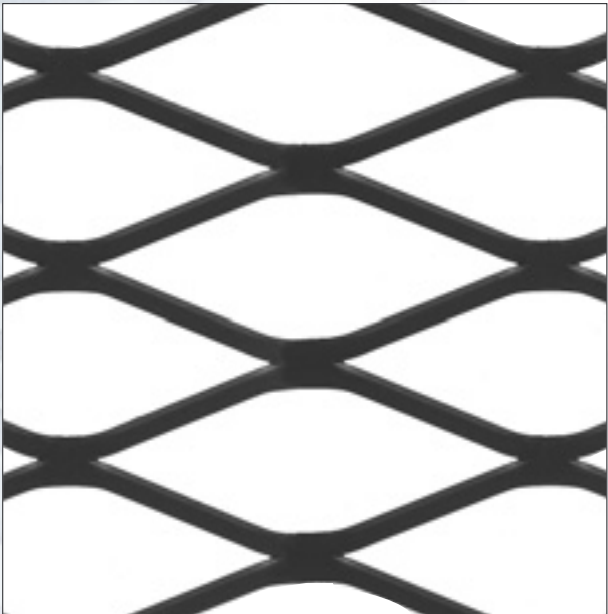
Types S 2 - S 17 - S 28

Mesh dimensions (1:1)

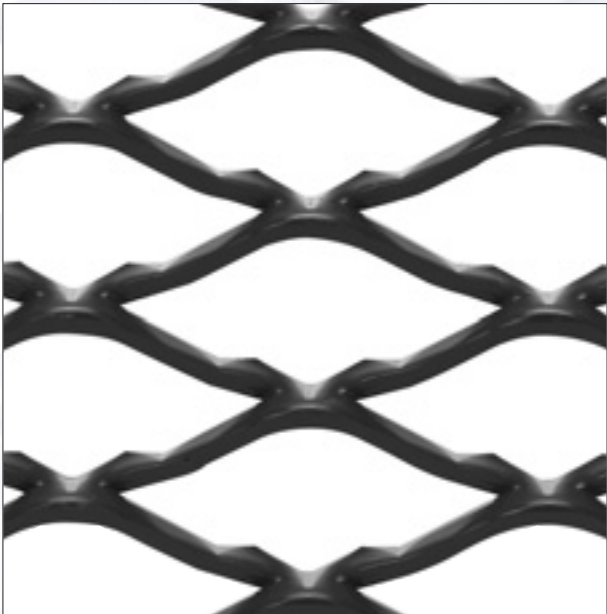


Type S 27

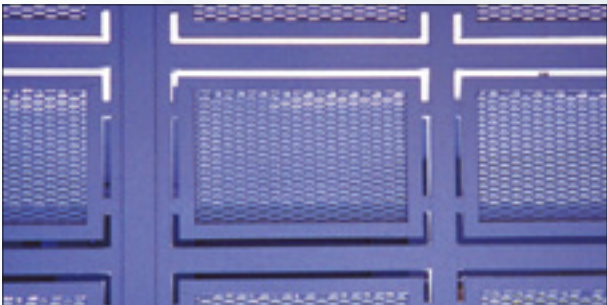
Expanded toothed diamond mesh

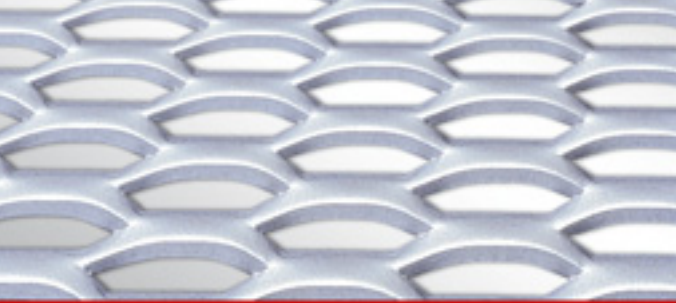


Types S 3 - S 4 - S 220

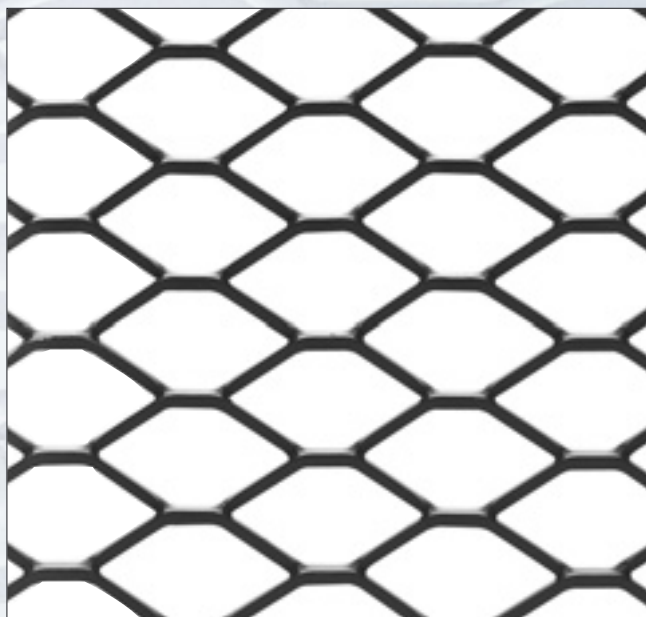


Types 96 - 97

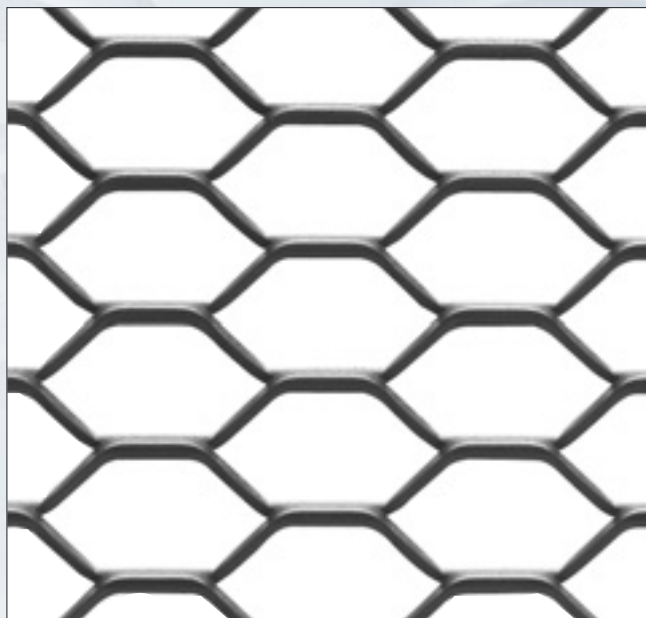




Expanded hexagonal mesh



Type E 35



Types E 1.5 - E 2

1 - AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Steel painted with polyester powder exterior paint

2 - FILS 21 - DL 45 x DC 15 (13.4) - av 5 x sp 3 mm
Steel painted with polyester powder exterior paint



Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
S 2	43 x 10	43 x 15	2.5	1	2.5	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 3700
S 17	43 x 10	43 x 14.6	2.5	1.5	3.9	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 3700
S 28	43 x 10	43 x 14.5	2.5	2	5.3	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 3700
S 27	43 x 17	43 x 17.7	2.8	1.5	3.6	1000 1000	2000 6000
S 3	62.5 x 20	62.5 x 25.5	3	1	1.8	1000 - 1250 - 1500 2000 - 2500	6000 5500
S 4	62.5 x 20	62.5 x 25.5	3	1.5	2.8	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 5500
S 220	62.5 x 20	62.5 x 24.5	3	2	3.9	1000 1000 - 1250 - 1500 2000 - 2500	2000 6000 5500

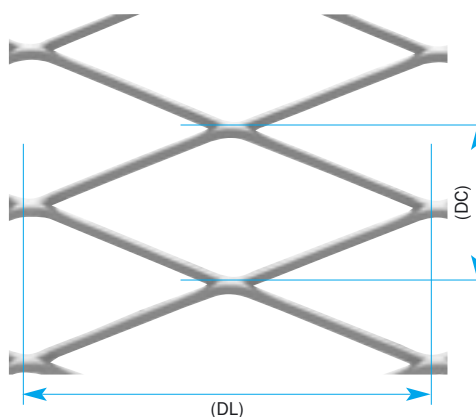
S = Flattened

E 35	35 x 15	35 x 15	2	2	4	1000	6000
E 1,5	45 x 18	45 x 17.5	2.2	1.5	3	1000	6000
E 2	45 x 18	45 x 17.5	2.2	2	3.9	1000	6000
96	62.5 x 25	62.5 x 25	4.3	3	8.14	made to order	made to order
97	62.5 x 25	62.5 x 25	6.2	3	11.7	made to order	made to order

The highlighted data are for the mesh in the photos.

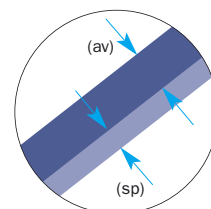
The weights given in the table are indicative and refer to steel grating

All meshes are expanded from carbon steel. On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.



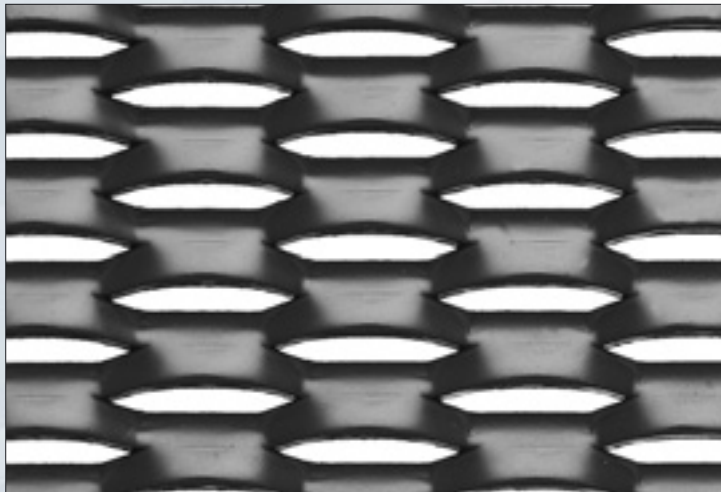
Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness



- **Expanded - ribbed grating**

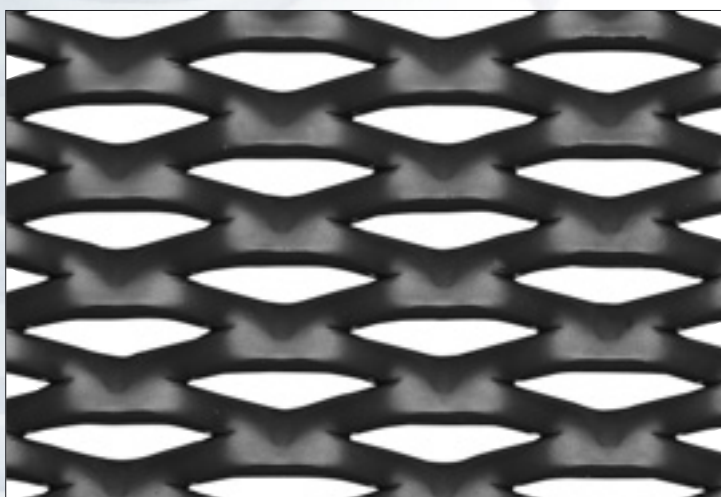
Mesh dimensions (1:1)



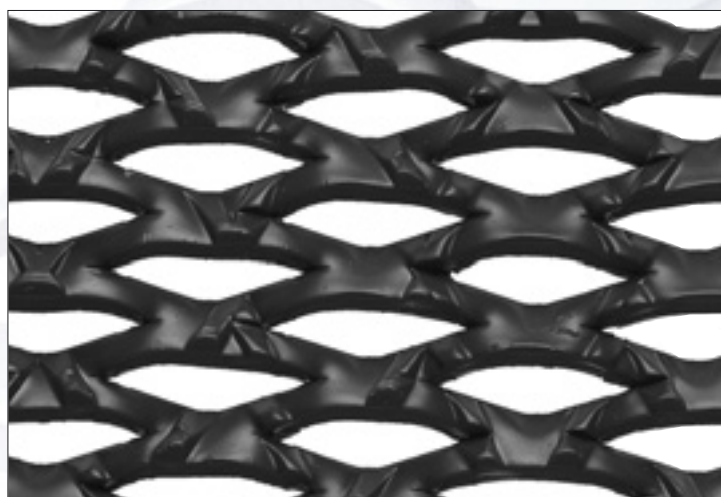
Types Fils 20 - Fils 21 - Fils 22



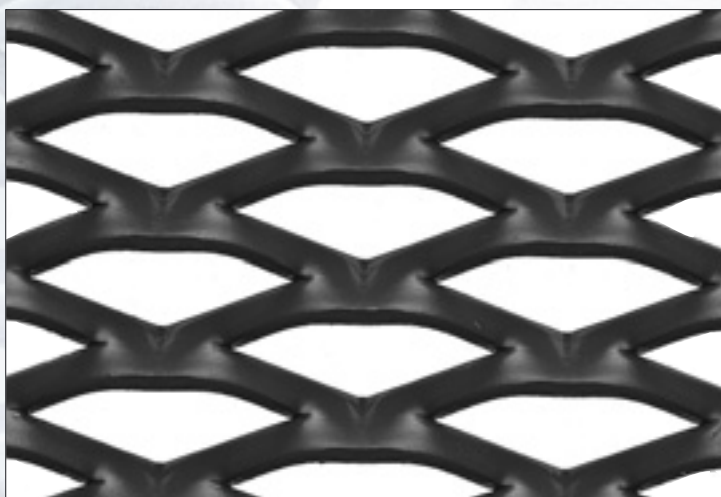
Type Fils 21 Ⓢ



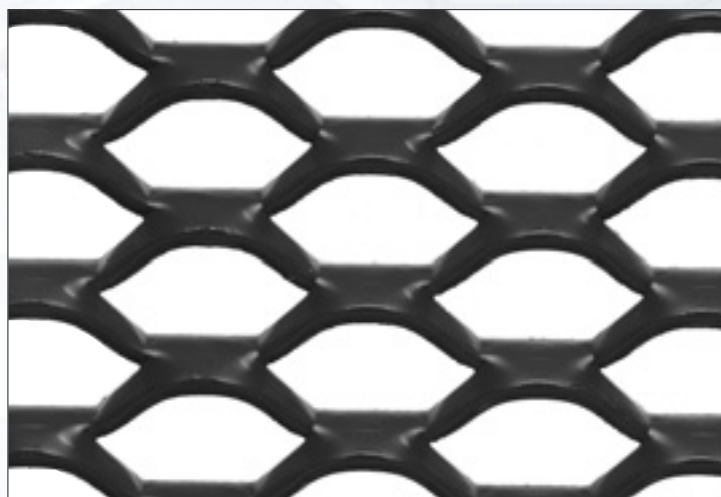
Types Fils 15 - Fils 16



Type Fils 15 Ⓢ



Type P 02



Types E 3 - E 4

Expanded and ribbed gratings

Thanks to their shape, some grating

types are antipanic non slip, high-heel safe and act as a flame/smoke break.



Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
Fils 20	45 x 15	45 x 11.4	3.3	3	13.8	1000	2000
Fils 21	45 x 15	45 x 13.4	5	3	17.5	1000 1250 1500	2000 2500 3000
Fils 22	45 x 15	45 x 13.4	5	4	24	1000	2000
Fils 15	43 x 17	43 x 14	5	3	17	1000	2000
Fils 16	43 x 17	43 x 14	5	4	23	made to order	made to order
P 02	53.5 x 20	53,8 x 18	5	3	13	1000 1500	2000 3000
Fils 21 (S)	45 x 15	45 x 13.4	5	3	21.5	1000	2000
Fils 15 (S)	43 x 17	43 x 14	5	3	21	made to order	made to order
E 3	45 x 18	45 x 19.5	4.5	3	11	1000 1250 1500	2000 2500 3000
E 4	45 x 18	45 x 19.5	4.5	4	14	1000 1250	2000 2500

Sheet sizes available

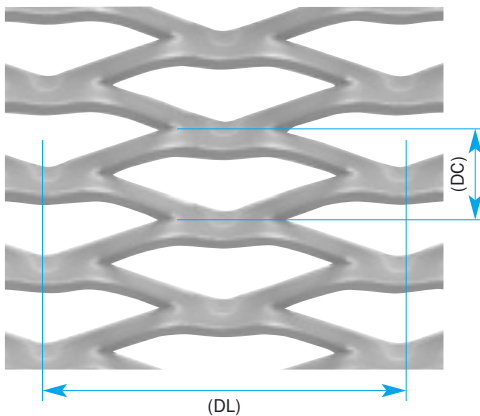
(S) = Ribbed

The weights given in the table are indicative and refer to steel grating

The highlighted data are for the mesh in the photos.

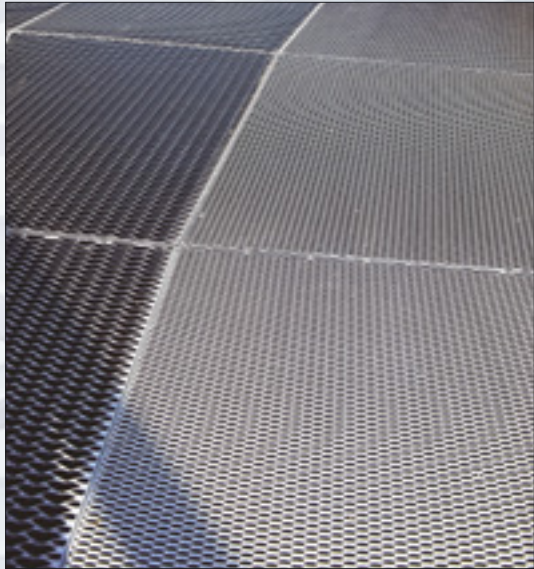
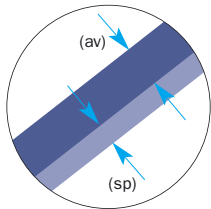
All gratings are expanded from carbon steel. On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.

Some of the grating types can be processed also from thickness 1.5 - 2 and 2.5 mm.



Mesh dimensions

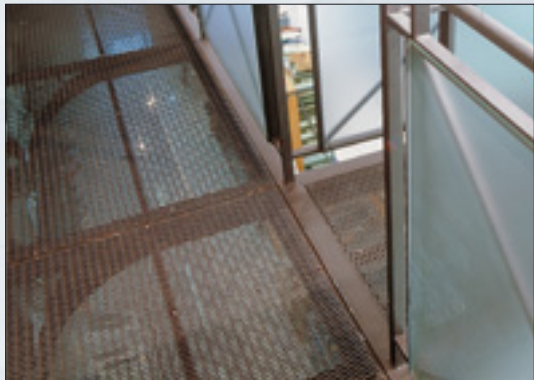
DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness



1



2



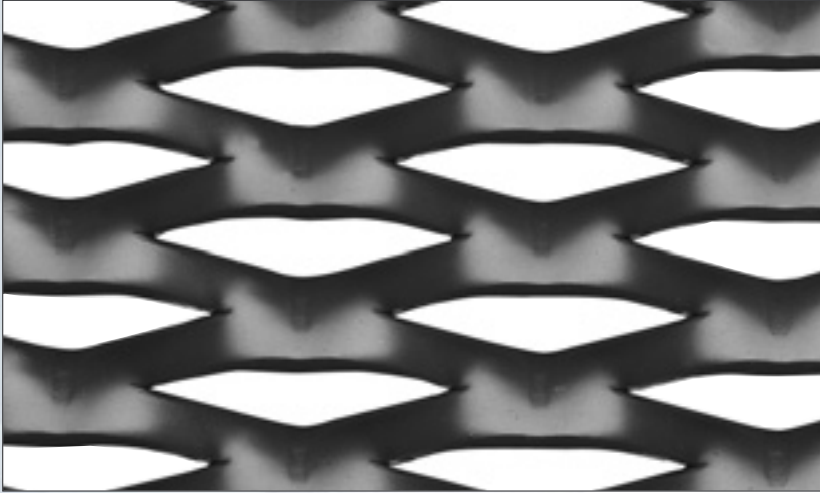
3

1 - FILS 6 - DL 90 x DC 30 (22.3) - av 7.5 x sp 4 mm
FILS 20 - DL 45 x DC 15 (11.4) - av 3.3 x sp 3 mm
Hot dip galvanised steel

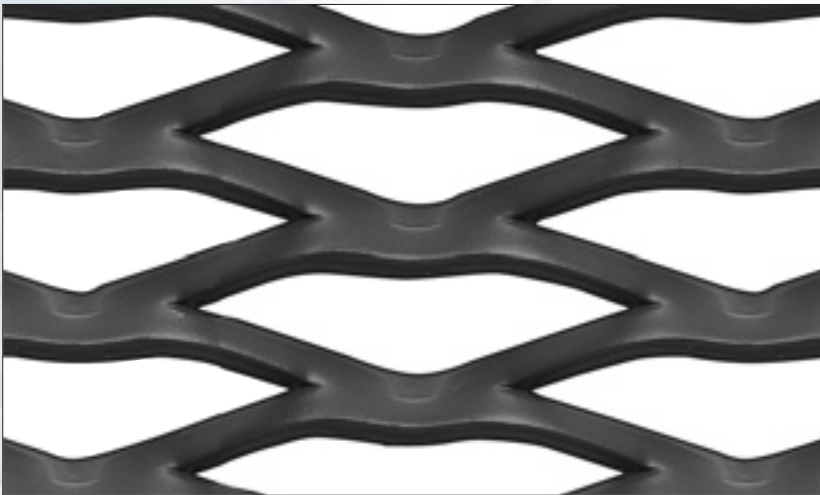
2/3 - FILS 20 - DL 45 x DC 15 (11.4) - av 3.3 x sp 3 mm
Hot dip galvanised steel

• Expanded gratings

Mesh dimensions (1:1)



Types Fils 4 - Fils 5



Types Fils 6 - Fils 7 - Fils 8



Types Fils 1 - Fils 2 - Fils 3

All gratings are expanded from carbon steel. On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.

Some of the gratings types can be processed also from thickness 1.5 - 2 and 2.5 mm.



FILS 20 - DL 45 x DC 15 (11.4) - av 3.3 x sp 2 mm
AISI 304 steel

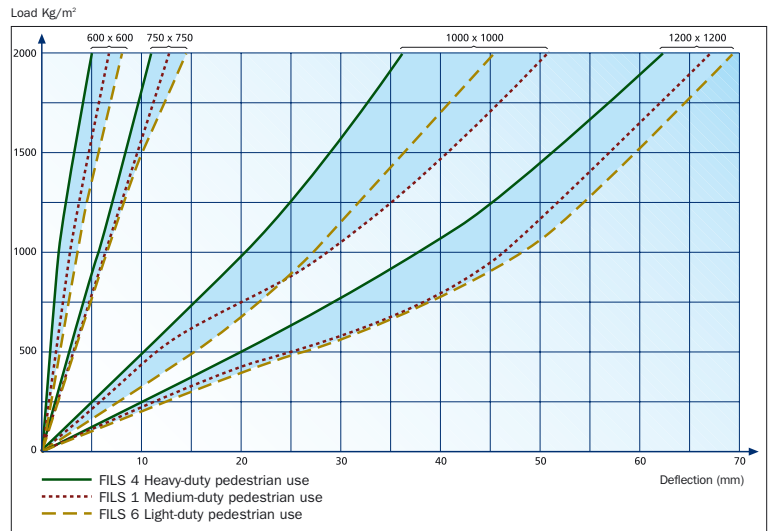


COLISEUM - DL 200 x DC 75 (80) - av 24 x sp 2 mm
Aluminium

Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
Fils 4	62.5 x 20	62.5 x 20	7.5	4	23	1000 1250	2000 2500
Fils 5	62.5 x 20	62.5 x 20	7.5	3	18	1000 1250 1500	2000 2500 3000
Fils 6	90 x 30	90 x 22.3	7.5	4	21	1000	2000
Fils 7	90 x 30	90 x 22.3	8.3	4	23	made to order	made to order
Fils 8	90 x 30	90 x 22.3	7.2	5	25	made to order	made to order
Fils 1	110 x 40	110 x 25.4	7	4	17	1000 1250 1500	2000 2500 3000
Fils 2	110 x 40	110 x 25.4	8	4	19.5	1000	2000
Fils 3	110 x 40	110 x 25.4	7	5	22	1000	2000

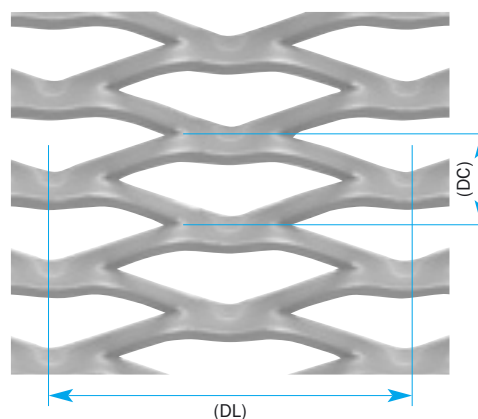
The highlighted data are for the mesh in the photos.

The weights given in the table are indicative and refer to steel grating



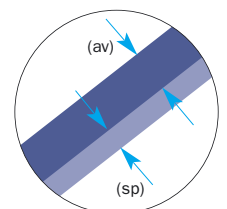
Load test

The data shown in the graph refer to the laying of frameless gratings fixed by welding to the support beams on either side of the walkway. The self-supporting grating panels are edged and framed with sections proportional to the expected load.



Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness



• Expanded and flattened gratings

Expanded grating

Mesh dimensions (1:1)

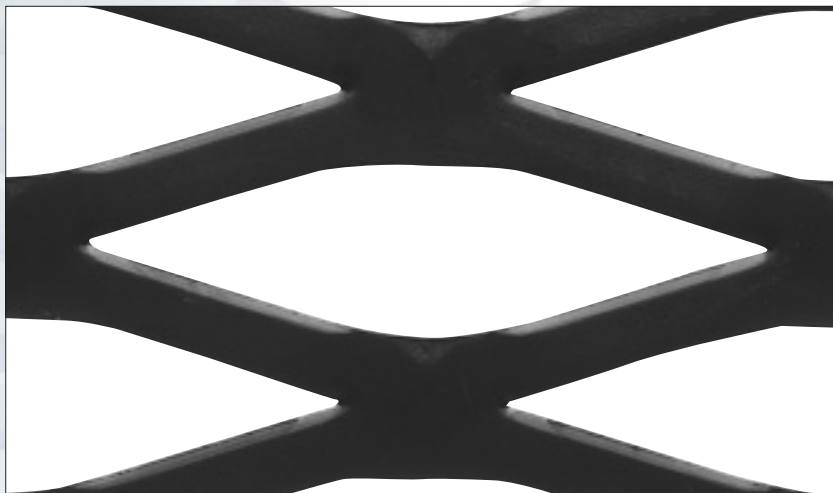


Type Fils 9

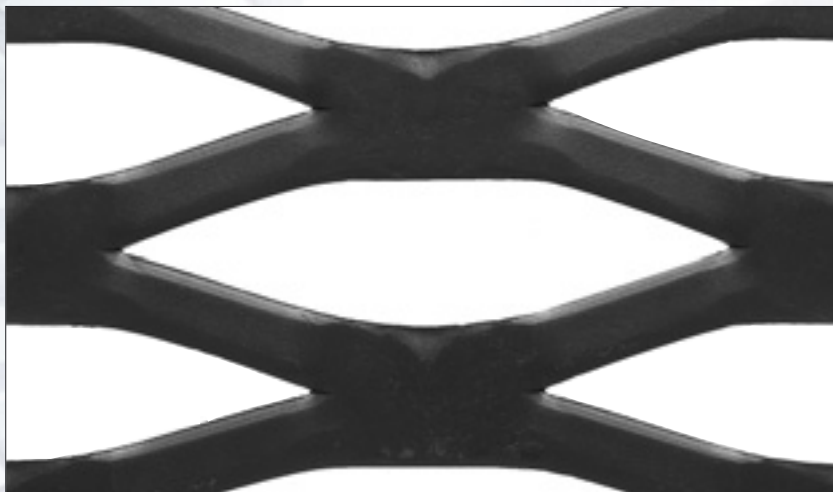
All gratings are expanded from carbon steel. On request some of the meshes can be processed from pre-galvanized steel, aluminium, copper, brass and stainless.

Some of the gratings types can be processed also from thickness 1.5 - 2 and 2.5 mm.

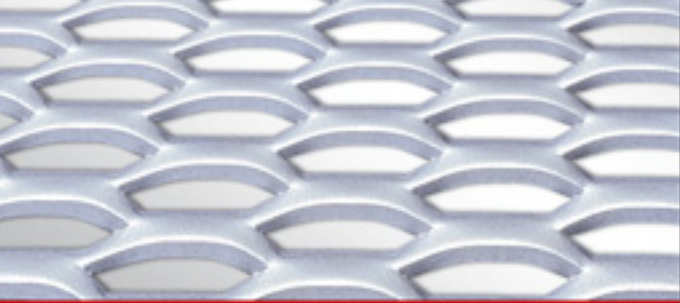
Flattened grating



Types SP 2 - SP 5



Types SP 2A - SP 5A



Type	DL x DC mm	Actual DL x DC mm	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
Fils 9	125 x 40	125 x 43	12	4	17.5	made to order	made to order

SP 2	110 x 40	110 x 41.6	9.5	4	14	1000 1250	2000 2500
SP 5	110 x 40	110 x 41.6	9.5	5	17.5	made to order	made to order

SP 2A	110 x 40	110 x 37	9.5	4	16	1000	2000
SP 5A	110 x 40	110 x 37	9.5	5	18.5	made to order	made to order

Sheet sizes available

SP = Flattened

The weights given in the table are indicative and refer to steel grating

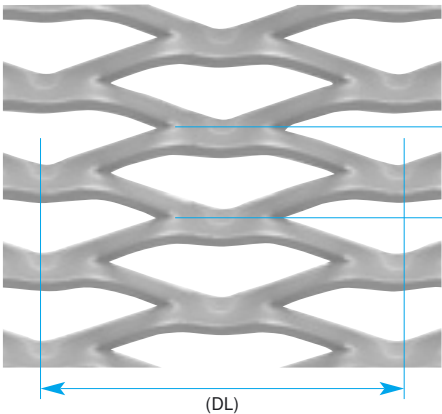
The highlighted data are for the mesh in the photos.



SP 2 - DL 110 x DC 40 (41.6) - av 9.5 x sp 4 mm
Hot dip galvanised steel

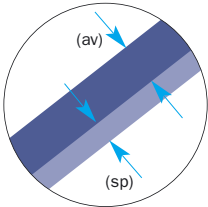


AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Natural anodised aluminium



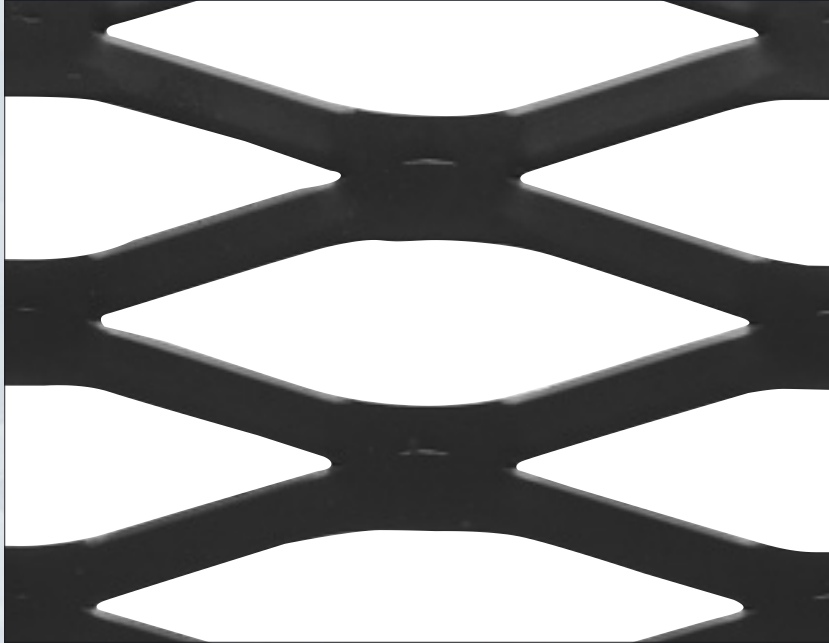
Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness

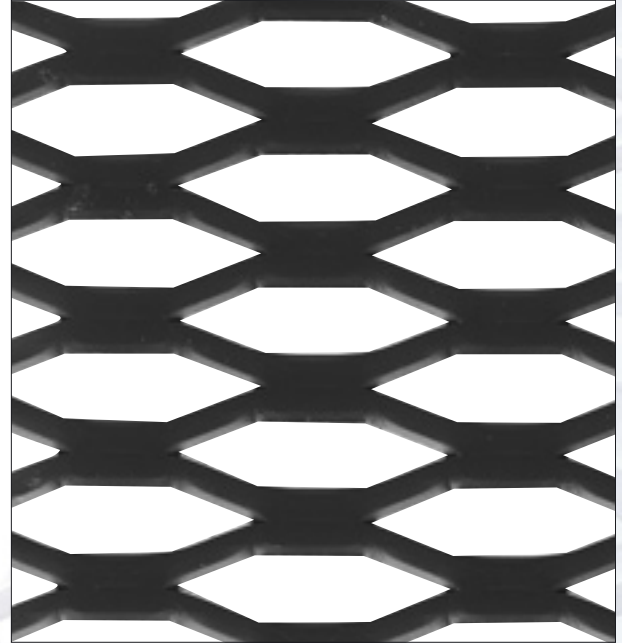


- **Expanded and flattened grating**

Flattened grating for livestock

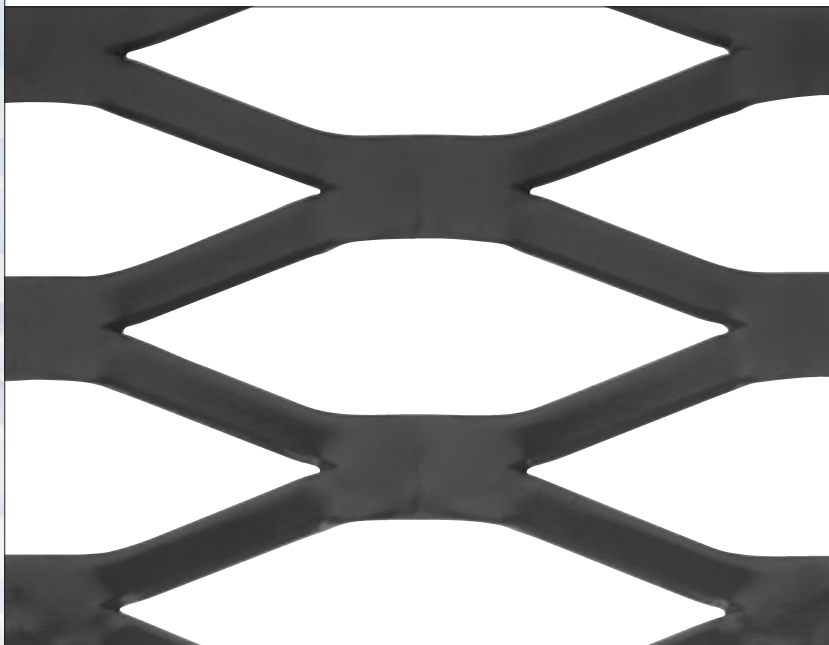


PS 03 flattened - PS 04 flattened



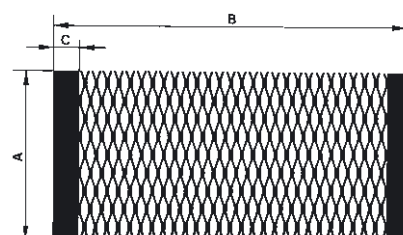
SC 3 flattened

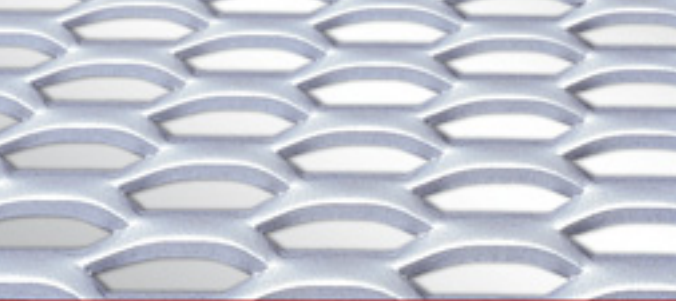
Flattened grating loading trays for tile and brick kilns



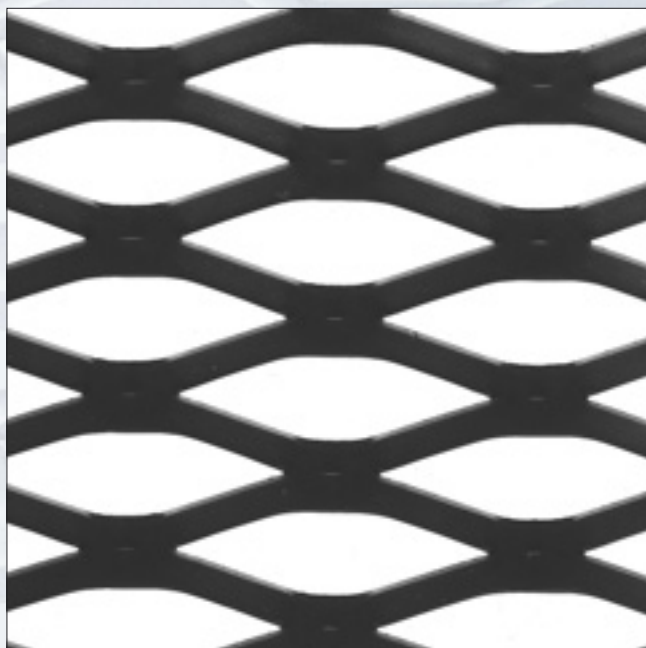
These loading trays, made from expanded flattened carbon steel sheet, not only provide a perfectly flat surface, but also let hot air circulate freely. The special strength of these trays allow for fast safe handling.

The trays come with two solid sheet borders for easy assembly. These borders can be eliminated on request.





Mesh dimensions (1:1)



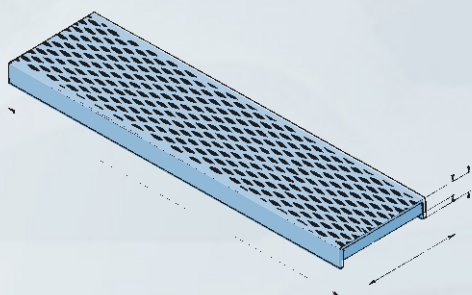
PS 01 flattened - PS 02 flattened



The platforms are made from expanded flattened hot dip galvanised steel sheet for lasting protection against corrosion. These are the most practical and low-cost solution for paving livestock farm buildings.

MAIN ADVANTAGES

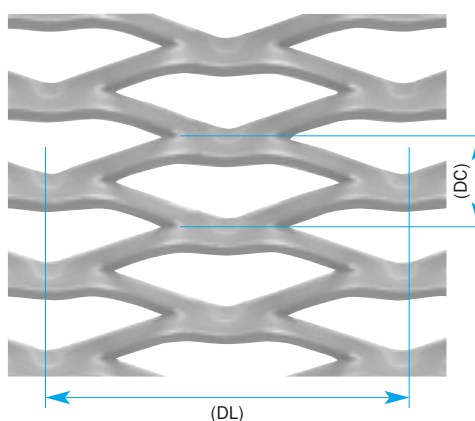
- Easy to clean thanks to their good ratio of open area.
- A more hygienic environment.
- Longer life span thanks to hot dip galvanising.
- Easy to install even in existing buildings.



Type	DL x DC mm	Actual DL x DC mm	Aperture dimensions	Strand width av/mm	Thickness sp/mm	Weight kg/m ²	DL width mm	DC length mm
PS 03	110 x 40	110 x 40	85 x 21	9.5	3	11	made to order	made to order
PS 04	110 x 40	110 x 40	85 x 21	9.5	4	15	made to order	made to order
SC 3	52 x 14	52 x 18	35 x 9	4.8	3	12.5	1000	2000
PS 01	53.5 x 20	53.5 x 21.5	40 x 12	4.8	2	7	1000	2000
PS 02	53.5 x 20	53.5 x 21.5	40 x 12	4.8	3	10.5	1000	2000
Platforms	110 x 40	110 x 37	80 x 24	7	3	9	made to order	made to order

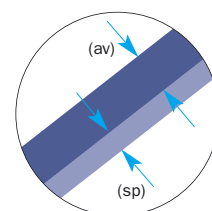
The highlighted data are for the mesh in the photos.

The weights given in the table are indicative and refer to steel grating



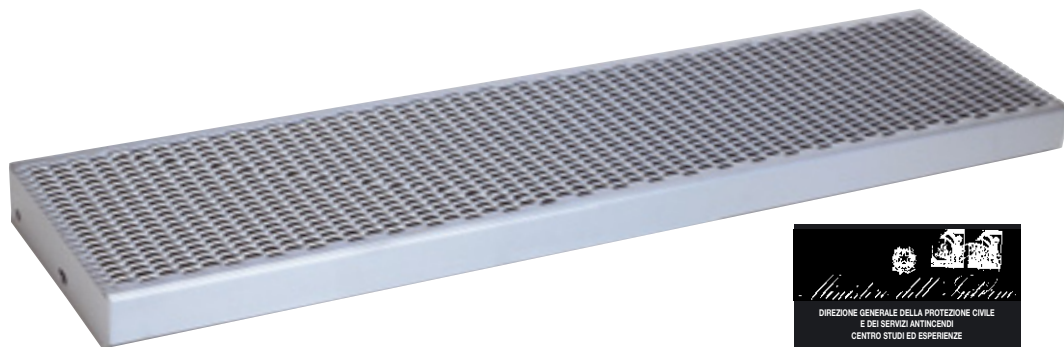
Mesh dimensions

DL = LW - long way
DC = SW - short way
av = w - strand width
sp = t - thickness



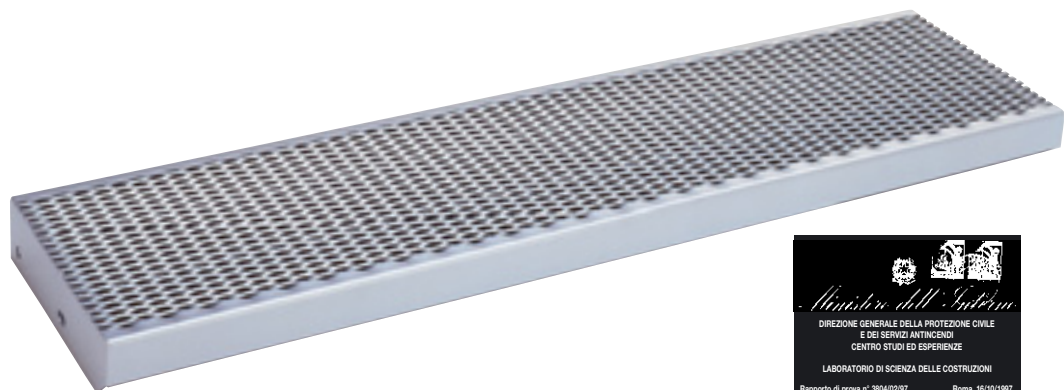
• Stair treads

SICURFILS Fils 21 sp 3 mm



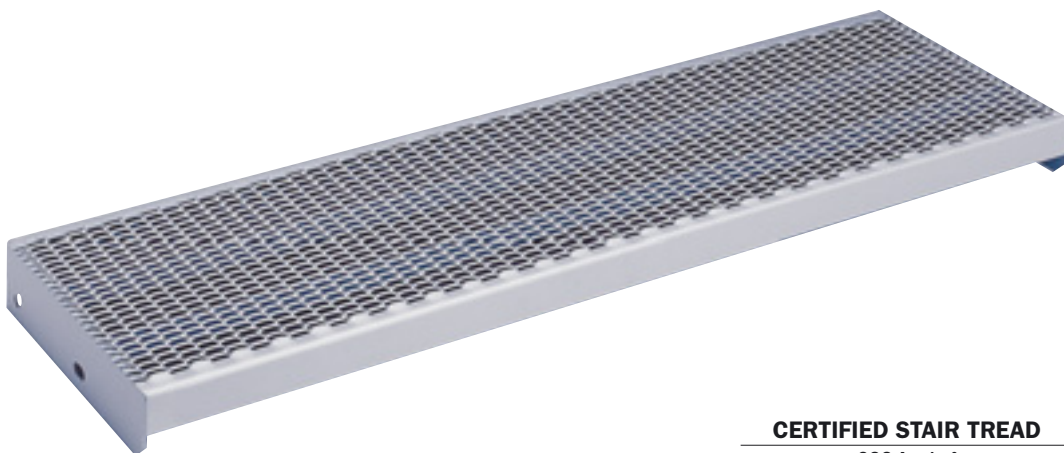
TYPE-APPROVED TREAD
400 kg concentrated load capacity

BETA 43 x 10 sp 3 mm



TYPE-APPROVED TREAD
200 kg concentrated load capacity

GAMMA Fils 20 sp 2.5 mm



CERTIFIED STAIR TREAD
600 kg/m²
evenly distributed load capacity

Type	DL mm	H mm	DC mm	Unit weight kg
SICURFILS	1200	73	300	15.7

BETA	1200	73	300	10
-------------	------	----	-----	----

GAMMA	1200	72.5	300	10.5
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Stair treads and baseboards can be made to order.

All our expertise for your safety.

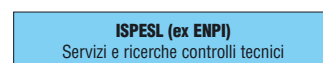
Our stair treads and landings have been tested and approved by the major European control BODIES. In addition, they are fully compliant with the stringent standards set under Italian Ministerial Decree dated 16th January 1996 which establishes the new load capacities.

On request, our Technical Office can calculate and supply the load details for each tread and landing even in the case of small runs of non standard products.

Our products are built in accordance with legal requirements and strict standards of workmanship to guarantee:

- **STRENGTH**
- **SAFETY**
- **NON-SLIP**
- **HIGH-HEEL SAFE**
- **FLAME/SMOKE BREAK**
- **ANTIPANIC**

Our wide range of treads and landings (also available in stainless steel) lets you find the perfect solution to cut costs for each application.



Nut and bolt for stair treads:

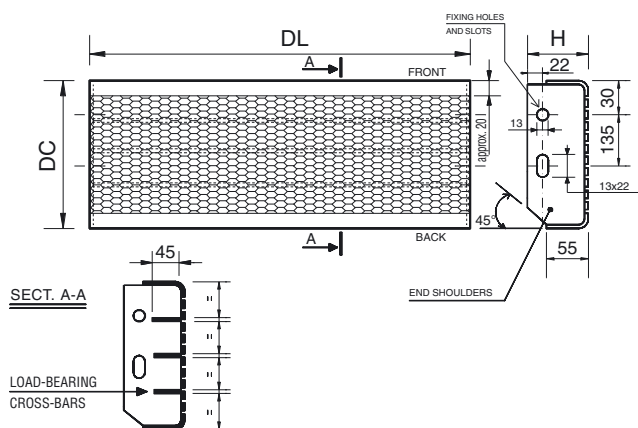
- SICURFILS • BETA • GAMMA
- hole Ø 13 mm - slot 13 x 22 mm



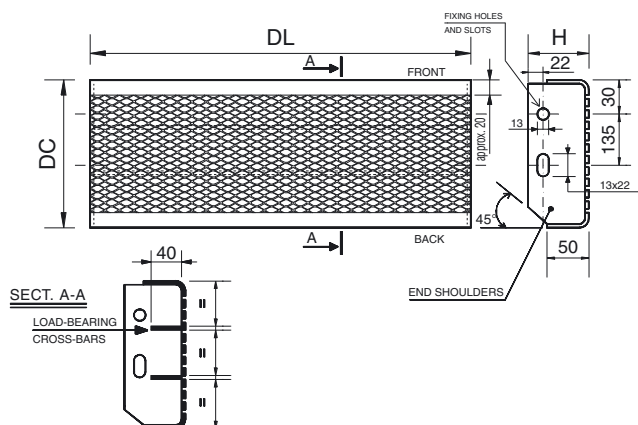
Bolt M12 x 30 mm



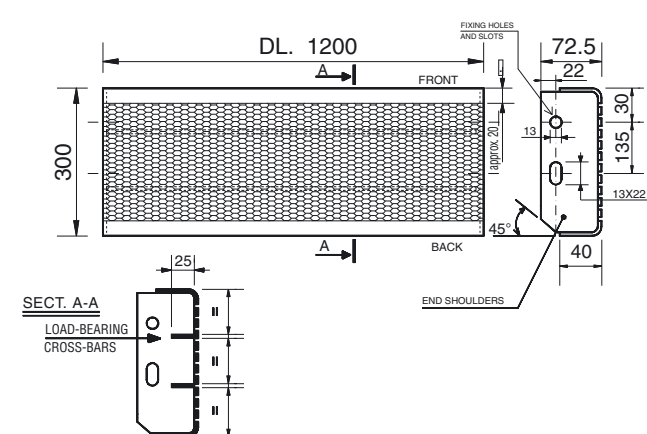
SICURFILS



BETA



GAMMA



• Stair treads

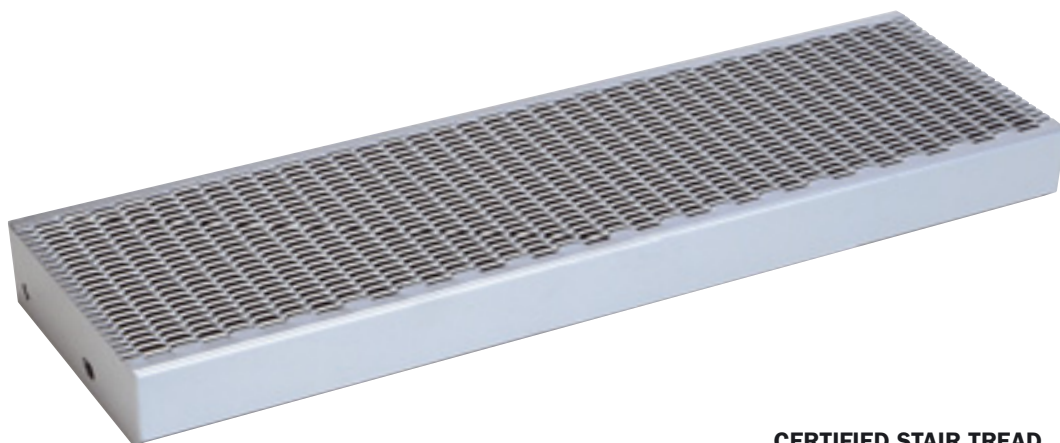
ECO 43 x 10 sp 2 mm



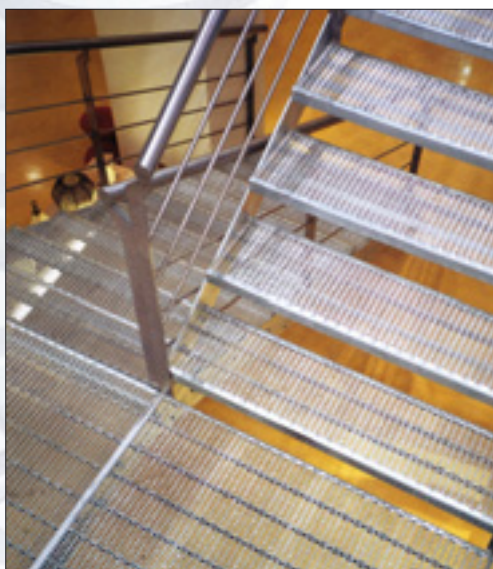
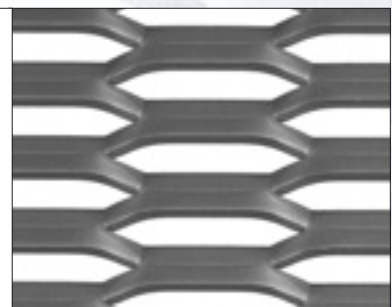
TYPE-APPROVED TREAD
400 kg concentrated load capacity



GALAXI Fils 20 sp 2 mm



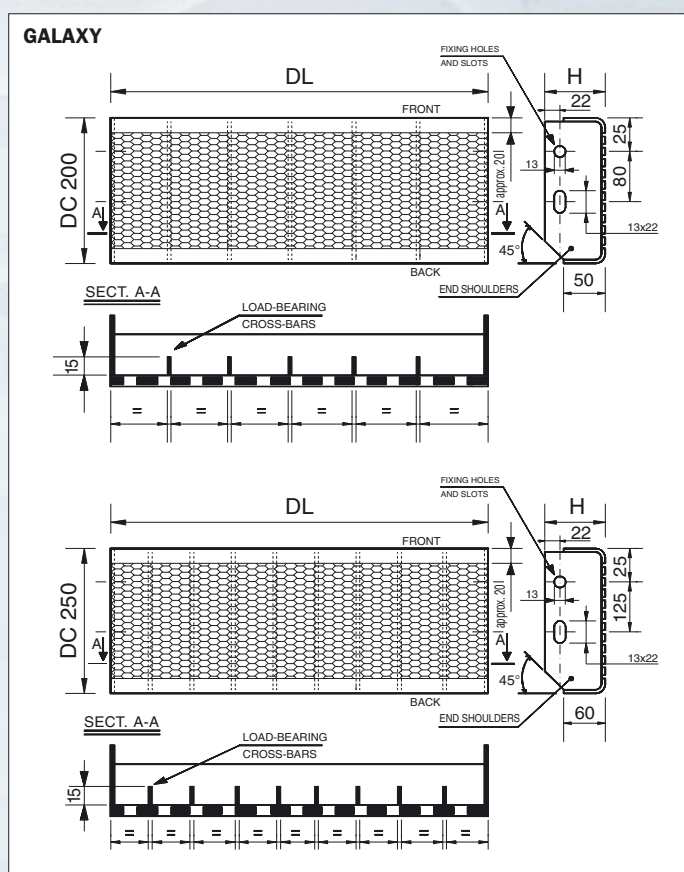
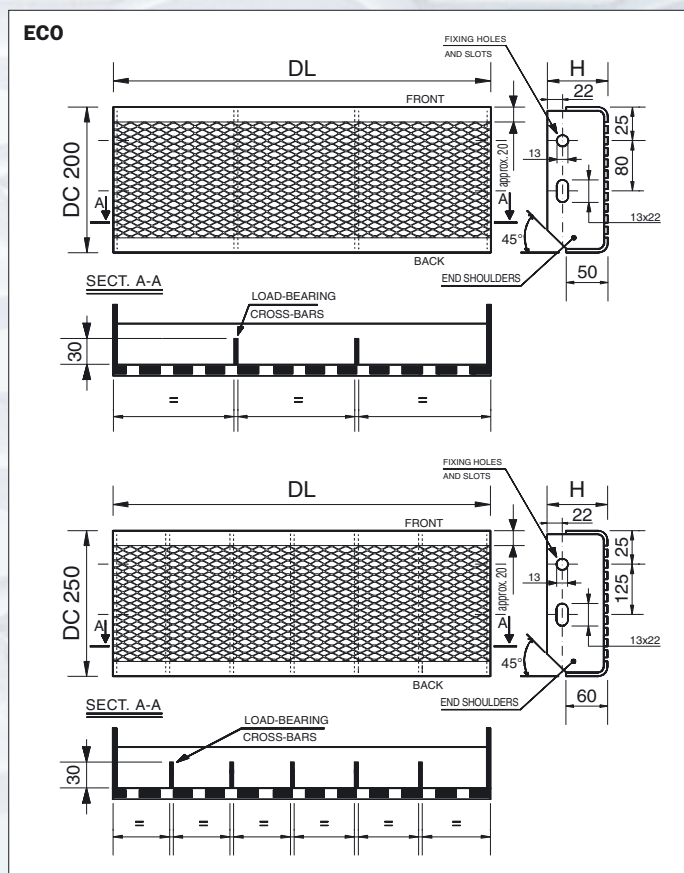
CERTIFIED STAIR TREAD
200 kg concentrated load capacity



Nut and bolt for stair treads:
• ECO
• GALAXI
hole Ø 13 mm
slot 13 x 22 mm



Bolt M12 x 30 mm



Type	DL mm	H mm	DC mm	Unit weight kg
ECO	1000	72	250	5.6
	900	72	250	5.3
	800	72	250	4.9
	700	72	200	3.4
	600	72	200	3.1
	500	72	200	2.7
GALAXI	1000	72	250	6.5
	800	72	250	5.4
	700	72	200	3.9
	600	72	200	3.4
	500	72	200	3
Stair treads can be made to order.				

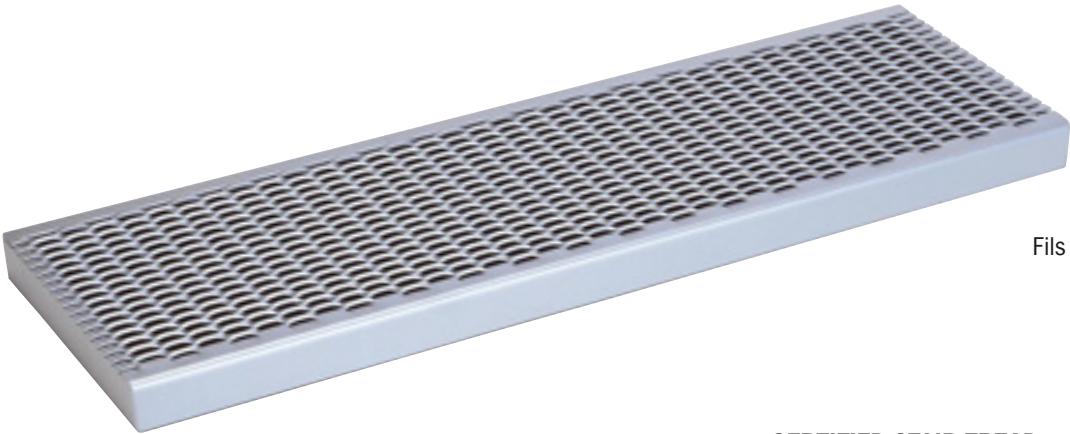
- **Stair treads**
- **Fils baseboards**

INDUSTRIA

Fils 21 Fils 5 sp 2.5 mm

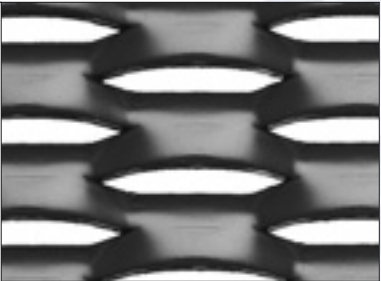
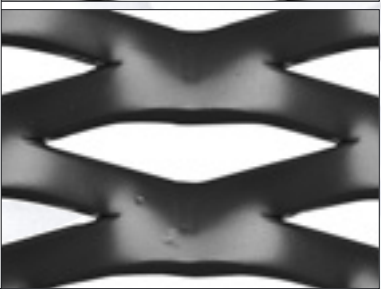
Fils 21

Fils 5



CERTIFIED STAIR TREAD

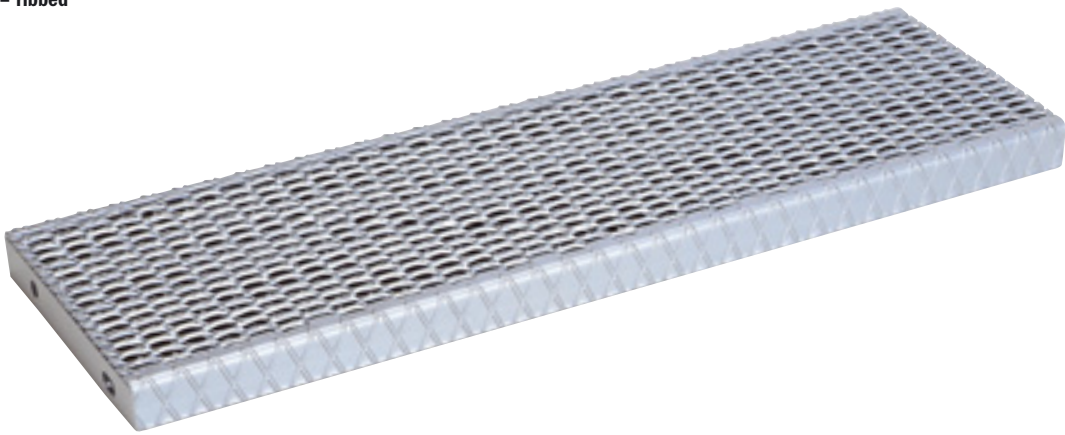
200 kg concentrated load capacity

SUPERFILS

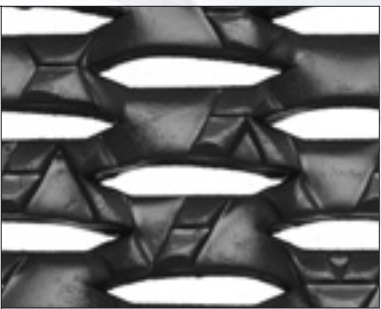
Fils 21  sp 3 mm

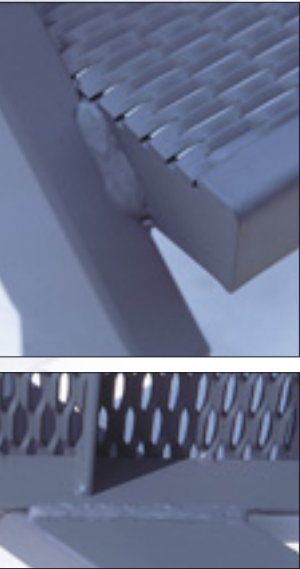
S = ribbed



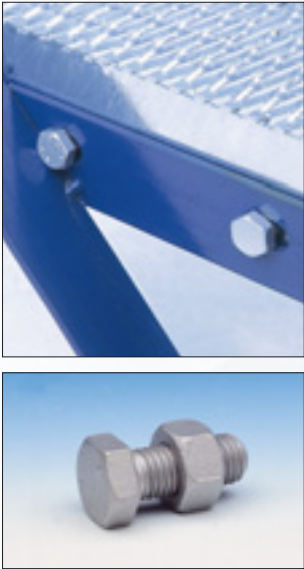
CERTIFIED STAIR TREAD

200 kg concentrated load capacity





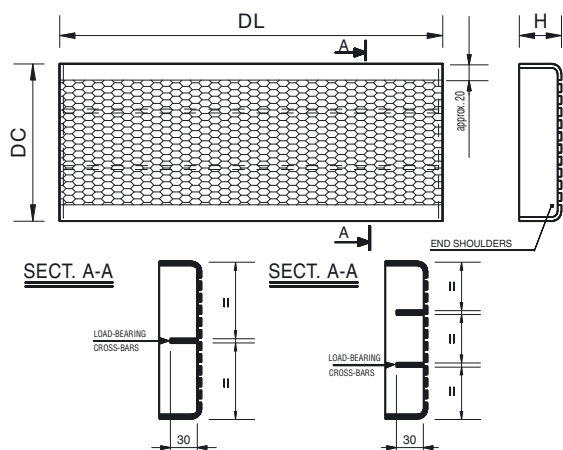
“INDUSTRIA” stair treads
Details of the welded fixing
system



Nut and bolt for stair
treads:
• SUPERFILS
hole Ø 13 mm
slot 13 x 22 mm

Bolt M12 x 30 mm

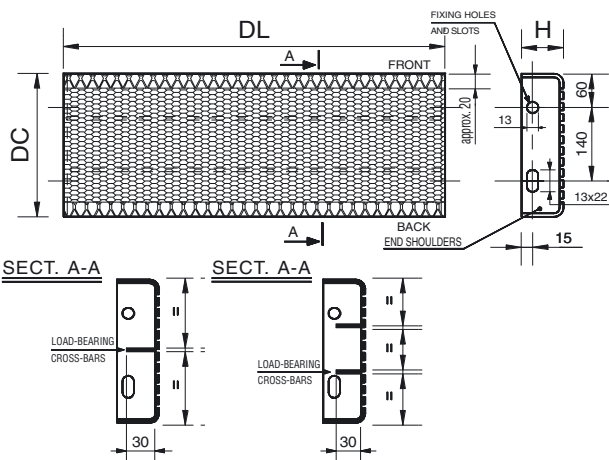
INDUSTRIA



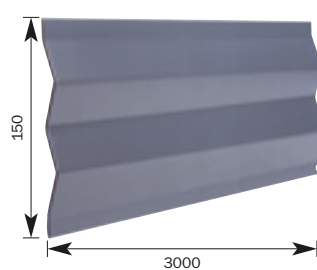
Type	DL mm	H mm	DC mm	Unit weight kg
INDUSTRIA	1000	40	250	8.6
	900	40	250	7.5
	800	40	250	5.9
	700	40	250	5.1
	600	40	250	4.2
	500	40	250	3.5
SUPERFILS	1000	40	250	11
	800	40	250	8
	700	40	250	6.6

Stair treads and baseboards can be made to order.

SUPERFILS



Fils baseboards



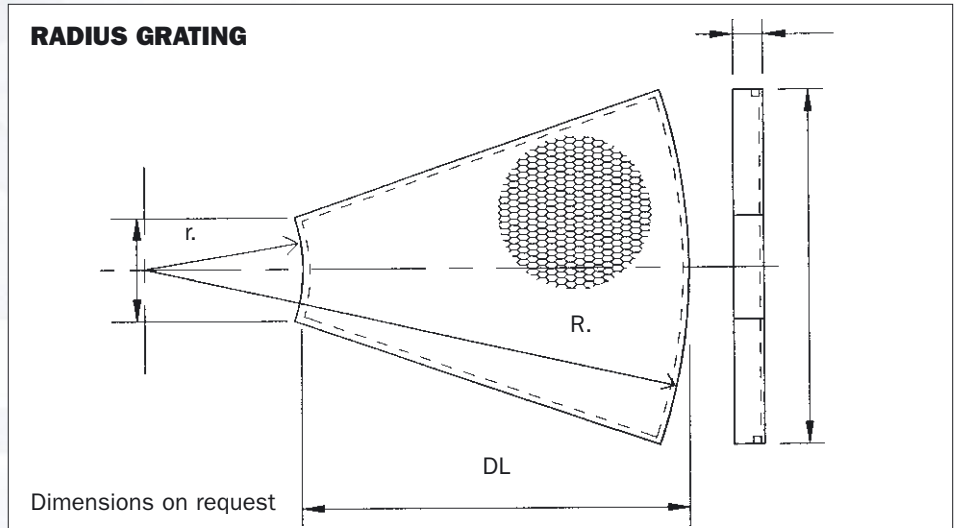
FILS BASEBOARDS

Standard size

mm	Thickness mm	Unit weight kg
150 x 3000	2.5	9.6

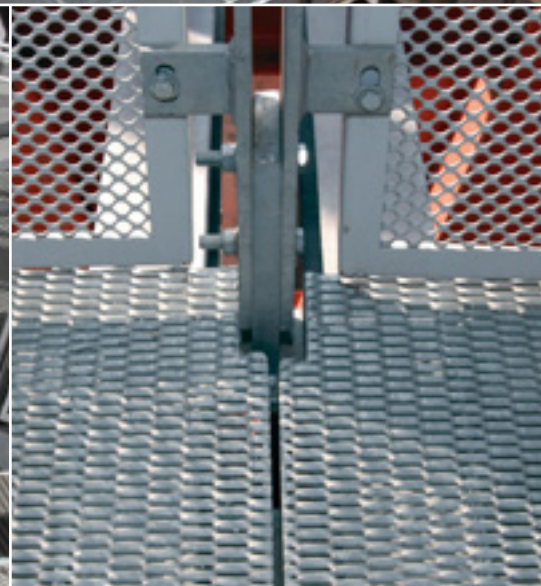
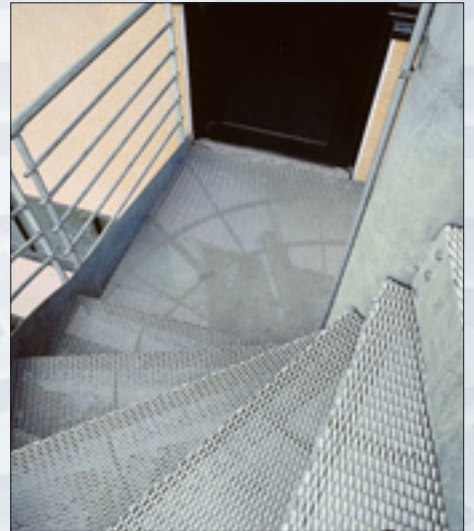
• Grating for spiral staircases

Production of “radius” step grating for spiral staircases made to order.



Hot dip galvanised steel





• Landings

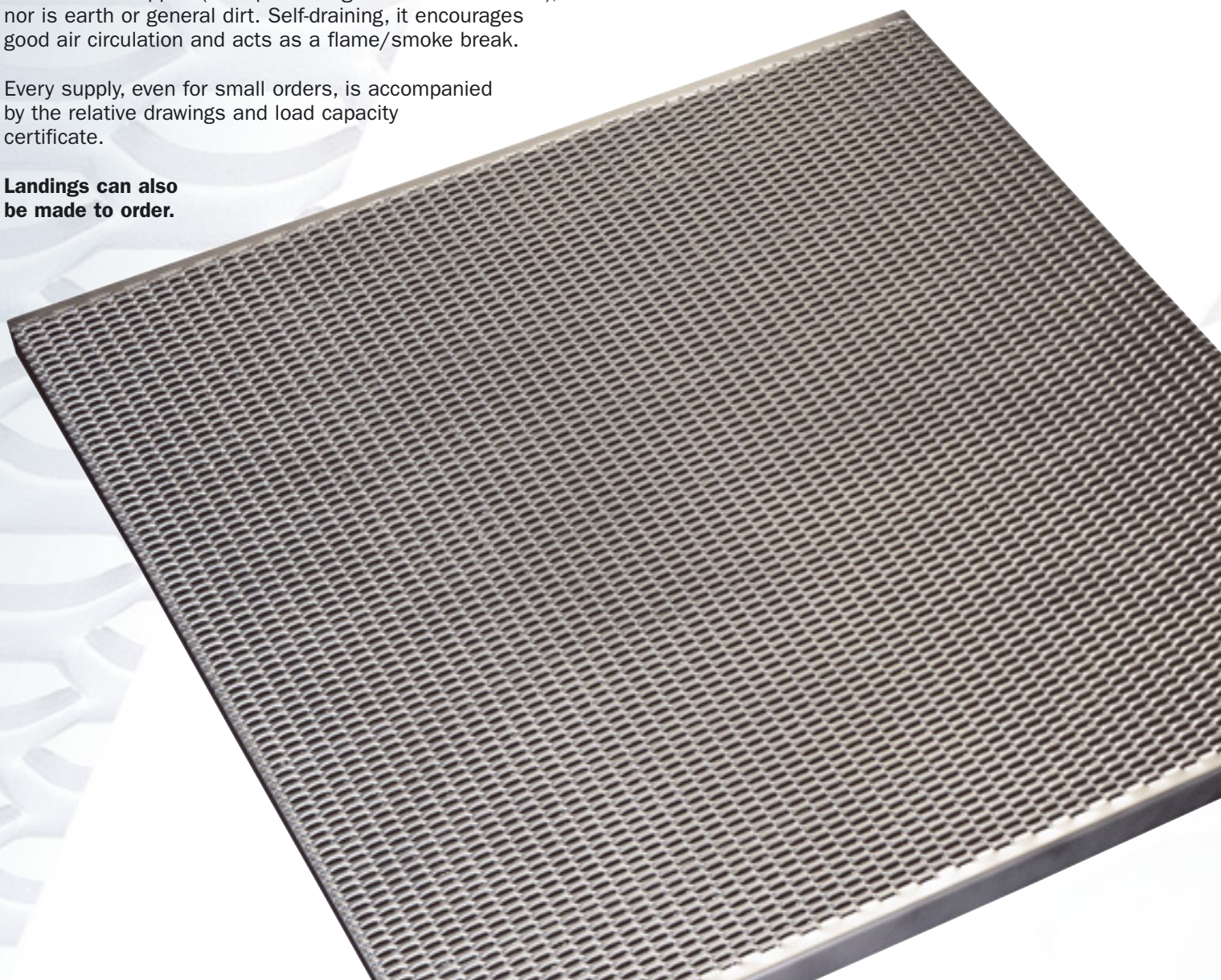


Our landings (conforming the new requirements under **Italian Ministerial Decree dated 16th January 1996**) are made from expanded FILS sheet-metal, have side frames and suitably sized support flats and are ready to use.

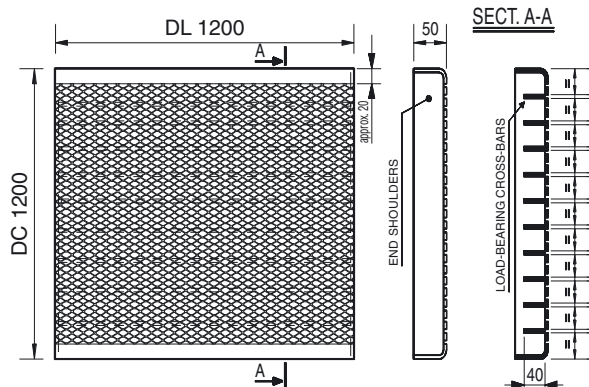
There are many advantages in using FILS landings. In fact, the mesh is high-heel safe, non-slip and antipanic. Snow is not trapped (thus preventing the formation of ice), nor is earth or general dirt. Self-draining, it encourages good air circulation and acts as a flame/smoke break.

Every supply, even for small orders, is accompanied by the relative drawings and load capacity certificate.

Landings can also be made to order.

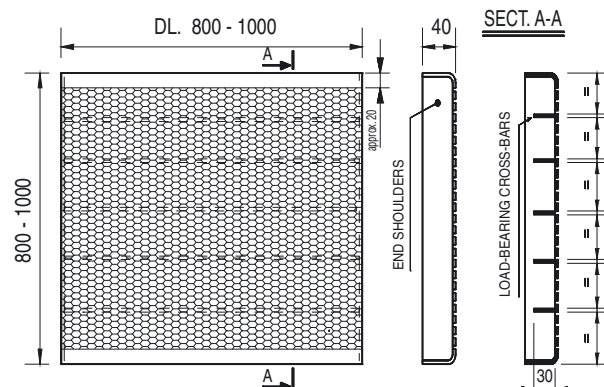


Landing for BETA 43 x 10 sp 3 mm



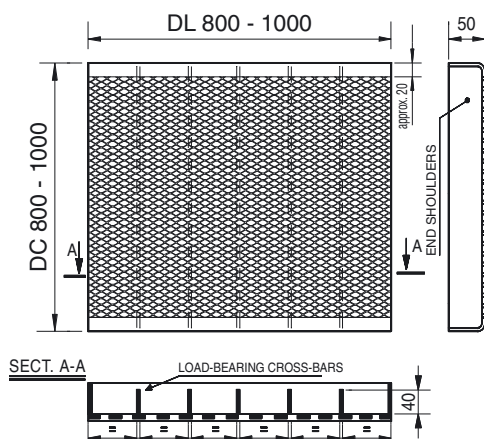
DL mm	H mm	DC mm	Unit weight kg
1200	50	1200	39

Landing for INDUSTRIA Fils 21 sp 3 mm



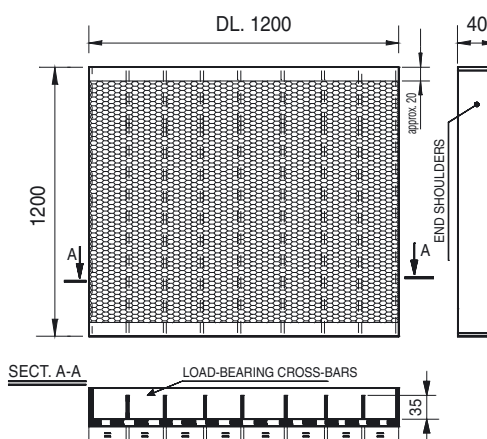
DL mm	H mm	DC mm	Unit weight kg
800	40	800	21
1000	40	1000	34
1200	50	1200	62

Landing for ECO 43 x 10 sp 3 mm



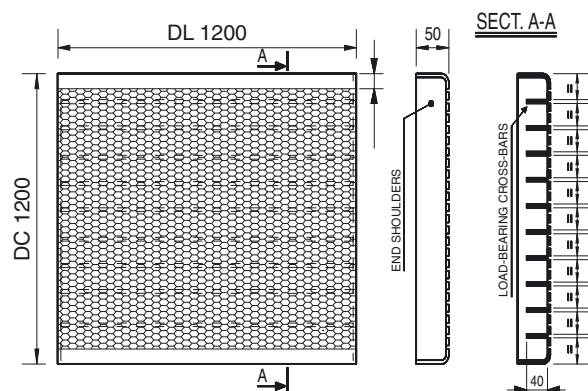
DL mm	H mm	DC mm	Unit weight kg
800	50	800	15
1000	50	1000	23

Landing for GAMMA Fils 20 sp 2.5 mm



DL mm	H mm	DC mm	Unit weight kg
1200	40	1200	34

Landing for SICURFILS Fils 21 sp 3 mm



DL mm	H mm	DC mm	Unit weight kg
1200	50	1200	62

Landings can be made to order.

• Grating



FILS 21

The ribbed non-slip metal grating with official recognition.

This essential characteristic is in fact confirmed by tests carried out by the Italian ISPESL Test laboratory (formerly ENPI) and certification, CSC n° 2782, issued by the Engineering Laboratory.

The tested grating is made from untreated ribbed sheet-metal that has been cut and then expanded. Attrition tests were conducted using both dry and oily samples in all directions.

The tests have been carried out making a weighted slide run horizontally along the grating. The base of this slide was lined with various materials such as leather and rubber to simulate the behaviour of various types of footwear. The slide was made to move in different directions and was connected to a high precision measuring instrument which easily recorded satisfactory coefficients of attrition on the surface of the grating.

ISPESL (ex ENPI)
Servizi e ricerche controlli tecnici

Grigliostop further improves the excellent non-slip qualities of grating made from standard sheet-metal, reproducing the typical surface roughness of grating produced from **ribbed** sheet-metal.

GRATING FOR AIR DUCTS AND DRAIN COVERS

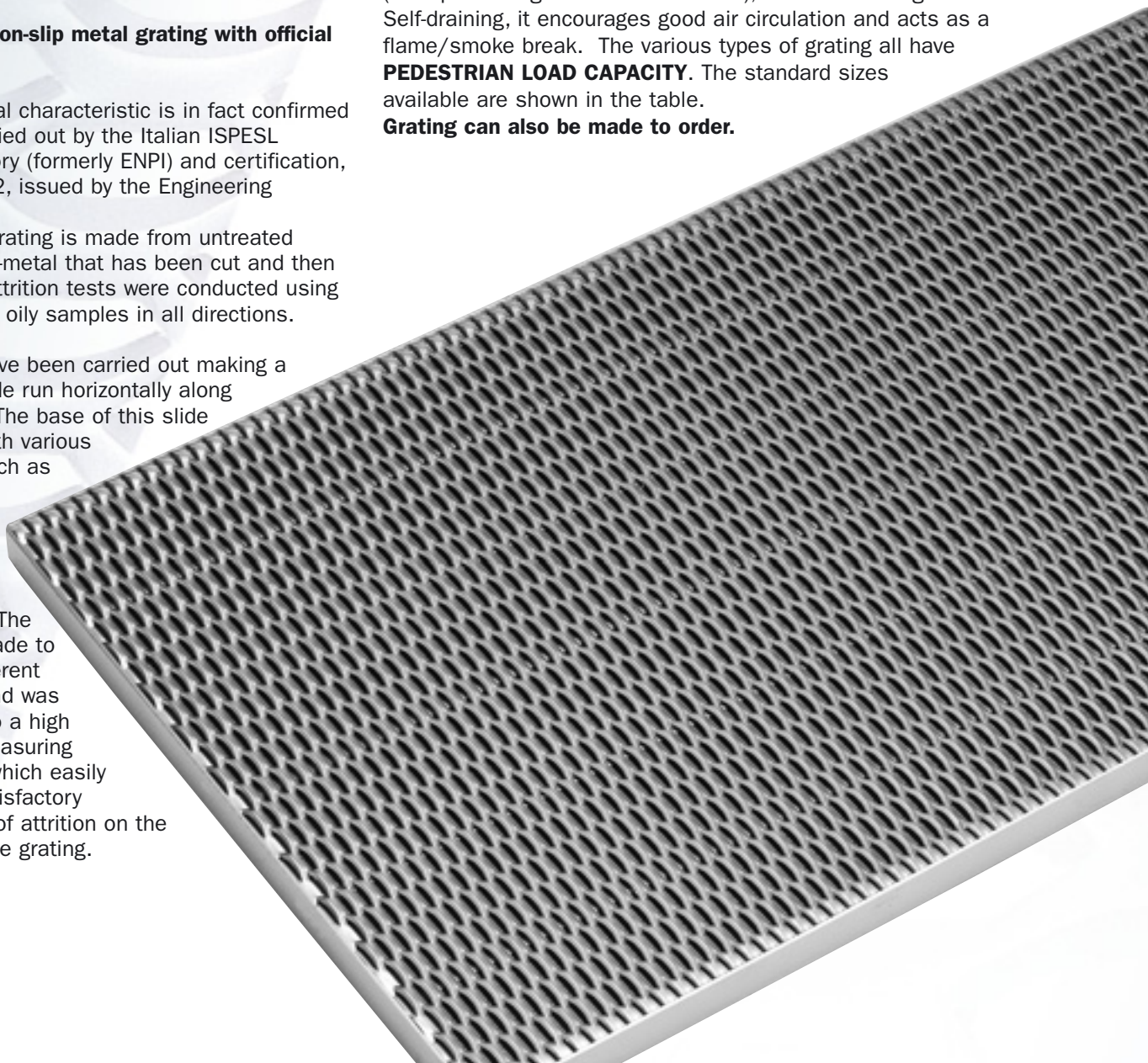
The grating is made from FILS expanded sheet-metal, has a side frame and suitably sized support flats and is ready to use.

The possible applications are many, such as:

- gaps
- inspection catwalks
- areas with pedestrian and industrial traffic
- air-inlets
- underground passage covers

There are many advantages in using FILS grating. In fact, the mesh is high-heel safe, non-slip and prevents accidents. Snow is not trapped (thus preventing the formation of ice), nor is earth or general dirt. Self-draining, it encourages good air circulation and acts as a flame/smoke break. The various types of grating all have **PEDESTRIAN LOAD CAPACITY**. The standard sizes available are shown in the table.

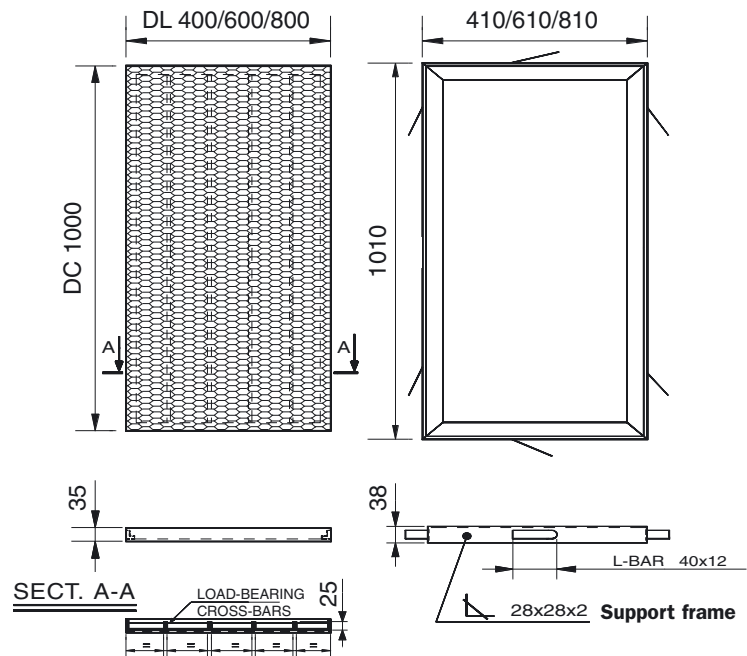
Grating can also be made to order.



Grating and support frames



Grating

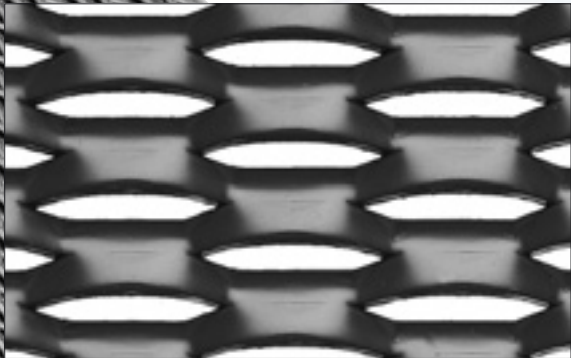


Dimensions in mm

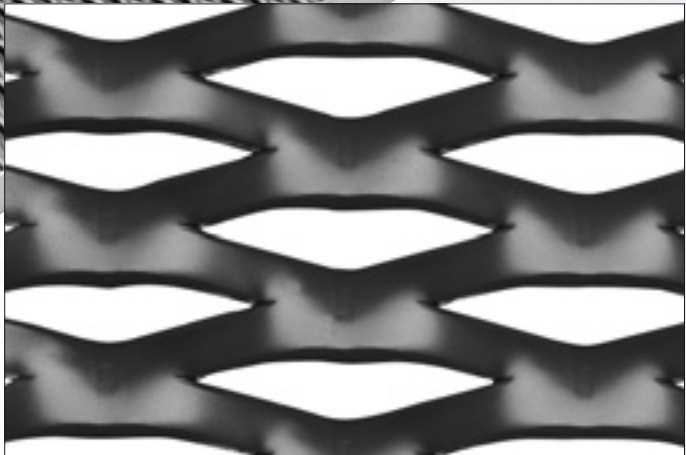
TYPE	DL mm	H mm	DC mm	Unit weight kg
Fils 4 sp 4 mm	400	35	1000	21
	600	35	1000	28
	800	35	1000	37
Fils 21 sp 3 mm	400	35	1000	19
	600	35	1000	25
	800	35	1000	32
Fils 1 sp 4 mm	400	35	1000	18
	600	35	1000	24
	800	35	1000	31.5
Support frames L 38x38x2	410	38	1010	3.2
	610	38	1010	3.6
	810	38	1010	4.1

Grating can be made to order.

Fils 21



Fils 4



Fils 1



- **Manhole covers**
- **Gully covers**
- **Support frames**



The **manhole** and **gully covers** are produced from expanded **FILS 21** sheet-metal and have a side frame and suitably sized support flats and are ready to use.

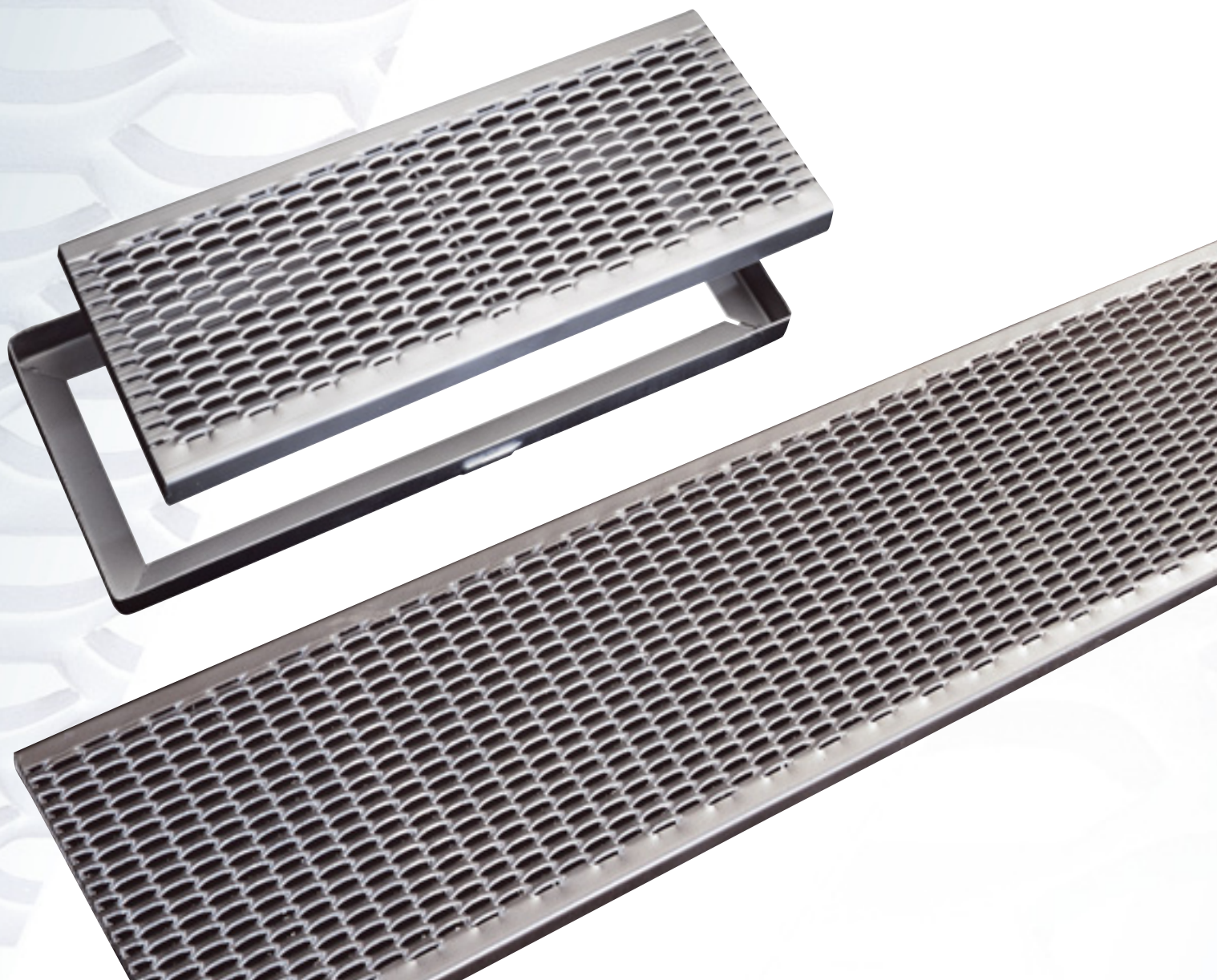
There are many possible applications for **manhole covers**, especially for covering inspection tunnels and for all kinds of pipe-ways.

The **gully covers** are ideal for drains and small aeration tunnels.

All the manhole and gully covers have **PEDESTRIAN LOAD CAPACITY**. There are many advantages in using FILS gully and manhole covers. In fact, the mesh is high-heel safe and non-slip and allows for earth, general dirt, snow (thus preventing the formation of ice) and water to pass.

The standard sizes of gully and manhole covers available are shown in the tables.

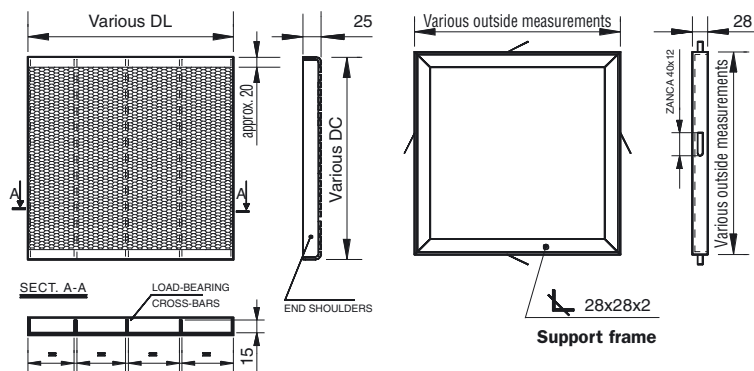
Gully and manhole covers can also be made to order.





Manhole cover

Dimensions in mm

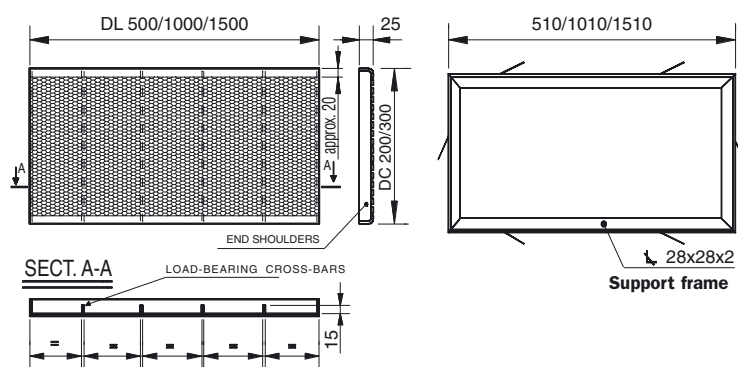


TYPE	DL mm	H mm	DC mm	Unit weight kg
Fils 21 sp 3 mm	200	25	200	1.6
	250	25	250	2.2
	300	25	300	3
	350	25	350	4.5
	400	25	400	5.5
	500	25	500	8.3
Support frames L 28x28x2	210	28	210	0.6
	260	28	260	0.8
	310	28	310	0.9
	360	28	360	1.1
	410	28	410	1.3
	510	28	510	1.6

Gully and manhole covers can be made to order.

Gully cover

Dimensions in mm



TYPE	DL mm	H mm	DC mm	Unit weight kg
Fils 21 sp 3 mm	500	25	200	3.3
	1000	25	200	6.4
	1500	25	300	13
Support frames L 28x28x2	510	28	210	1.2
	1010	28	210	2
	1510	28	310	3

- **Doormats**
- **Soakaway drains**
- **Serrafil**

Doormats

LUSSO DOORMAT

The "Lusso" doormat is produced from **expanded carbon steel sheet with a hot dip galvanised finish**. Thanks to its design features, it is extremely practical and useful in all situations where people come indoors.

Suitable for use on any surface, it is extremely strong and easy to care for.

It lets rain, snow, earth and general dirt pass, is non-slip and high-heel safe.

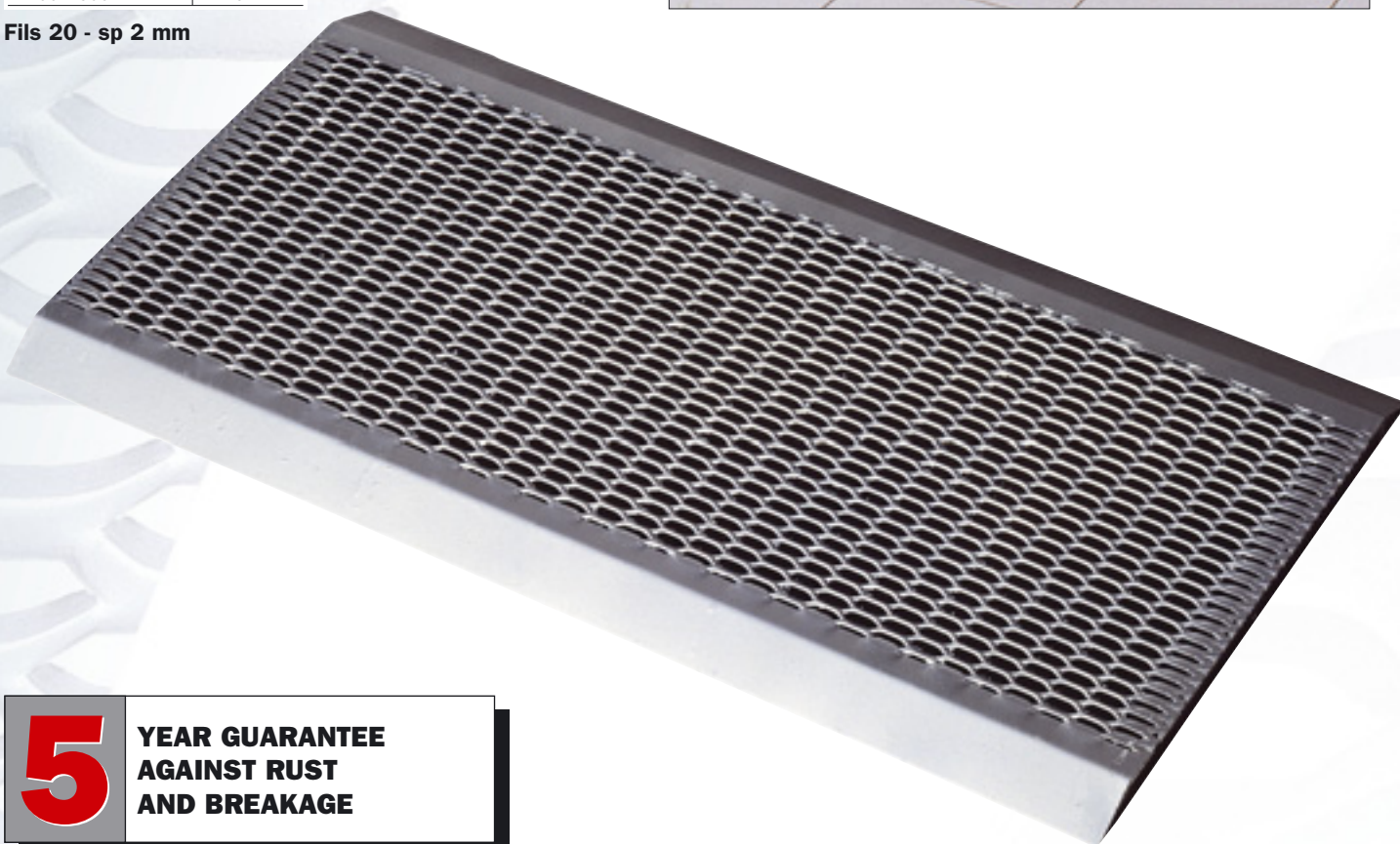
It can withstand even the harshest of weather and so is virtually indestructible. Easy to handle, it is simple to clean.

The "Lusso" doormat has a 5-year guarantee against rust and breakage for normal pedestrian use.



LUSSO doormat	Unit weight kg
1000 x 500 x 22 mm	7.0
800 x 400 x 22 mm	4.7
700 x 350 x 22 mm	3.7

Fils 20 - sp 2 mm



5

**YEAR GUARANTEE
AGAINST RUST
AND BREAKAGE**

Soakaway drains

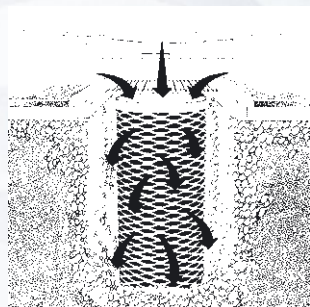
These allow for the drainage and dispersal of rain water in reasonably permeable land without the need to connect these to drains, the sewer mains or self-draining wells.

This makes for savings in terms of cost and time in both new and existing projects which do not guarantee adequate levels of drainage.

Easy to install, there is no need for specialist personnel. This system for draining away rain water also lets you stabilise underground water flows. he FILS soakaway drains are made from FILS SP2 expanded and flattened sheets with guaranteed compressive strength to withstand the pressure applied by the soil. Maintenance-free.

FILS soakaway drains are supplied with a hot dip galvanised finish and are produced in standard sizes of 500 mm and 1000 mm. They can be stacked on top of each other for extra depth.

TYPE	SP2	SP2	SP2	SP2
DL mm	110	110	110	110
DC mm	40	40	40	40
av - mm	9.5	9.5	9.5	9.5
sp - mm	4	4	4	4
Diameter mm	400	600	400	600
Height mm	500	500	1000	1000
Unit weight kg	10.5	15.5	16.5	24.5



SERRAFILS

With their modular design, these frames are suitable for all soil types and are easy to assemble and join together.

The hot dip galvanised finish offers lasting protection.

Dimensions

Width: 1200 mm

Length: 2000 mm

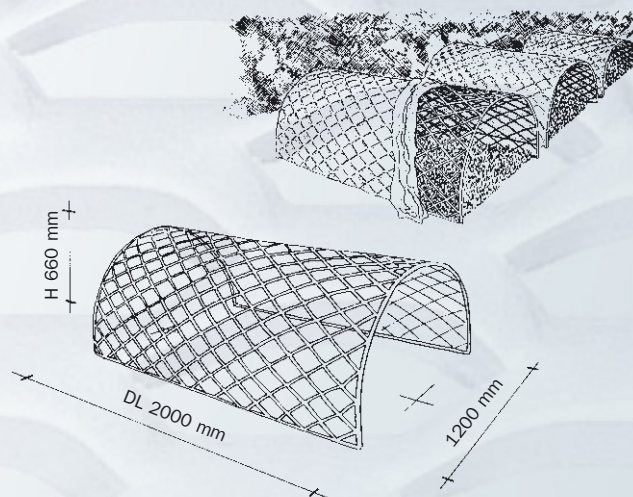
Height: 660 mm

"Serrafilis" frames can also be supplied made to order.

Flattened mesh, 200 x 100 mm, av 5 - sp 3

Applications

To protect garden produce and flowers from frost and obtain crops out of season, force spring crops and provide warm soil for sowing.

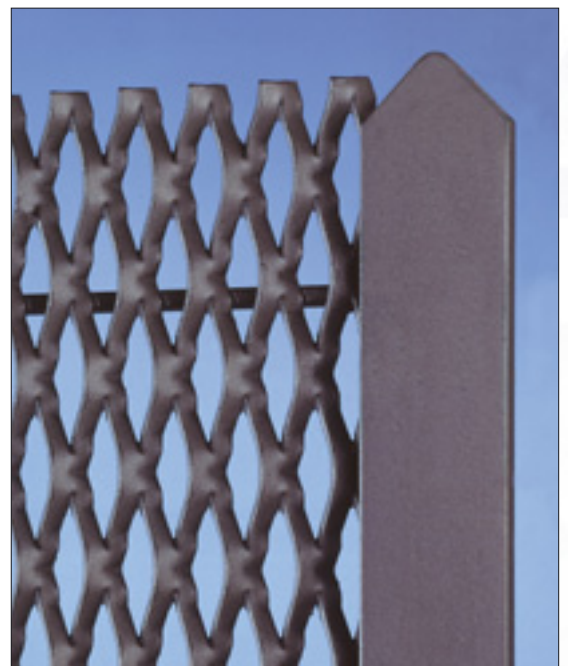
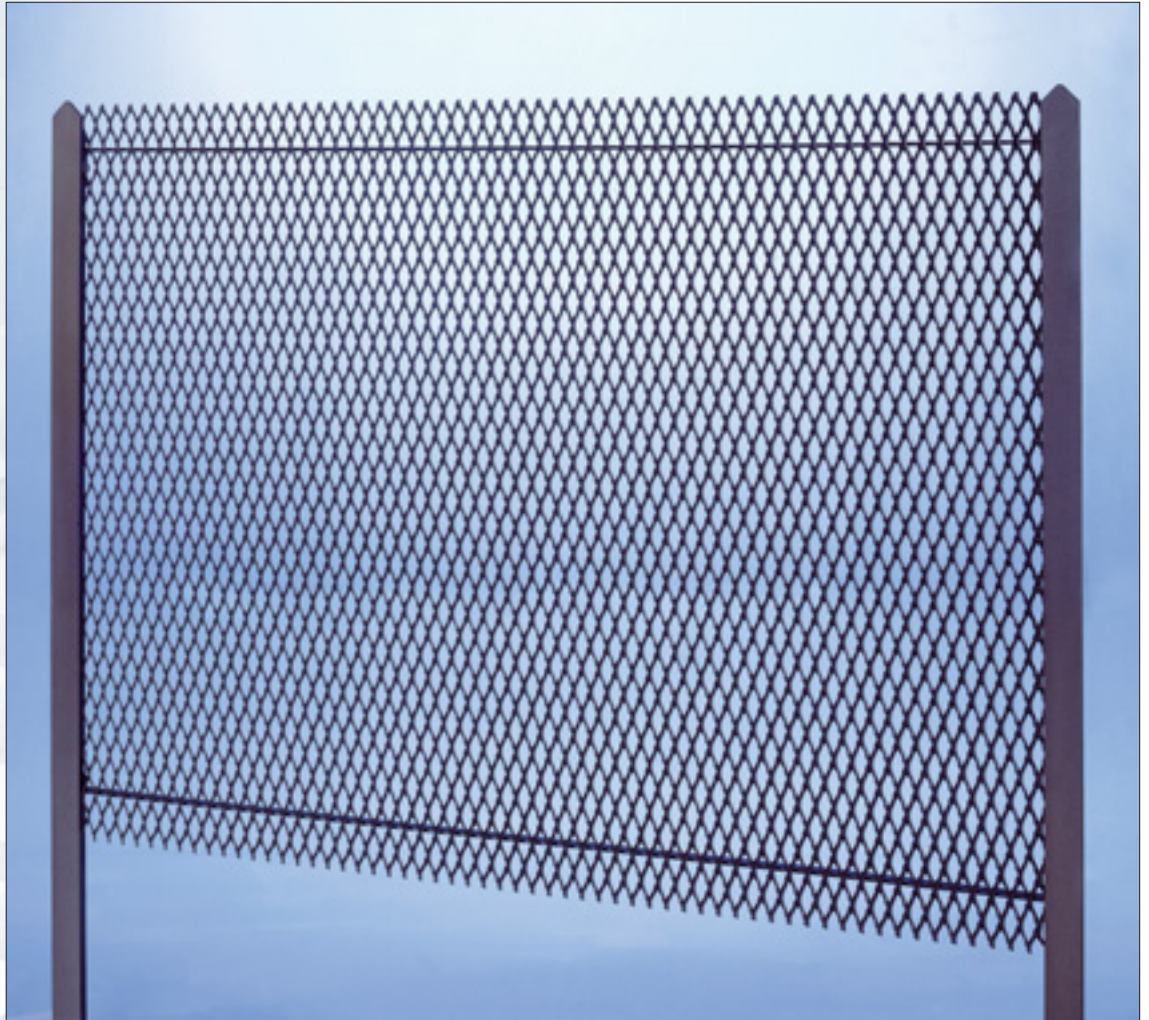


• Panel fencing “Facile”

Easy to mount, lovely to look at.

“**Facile**” is fast and easy to mount thanks to the system used to fix the panels to the posts: just nuts and bolts.

“**Facile**” creates the perfect “continuous façade” fence, without any gaps between one panel and the next.



Production

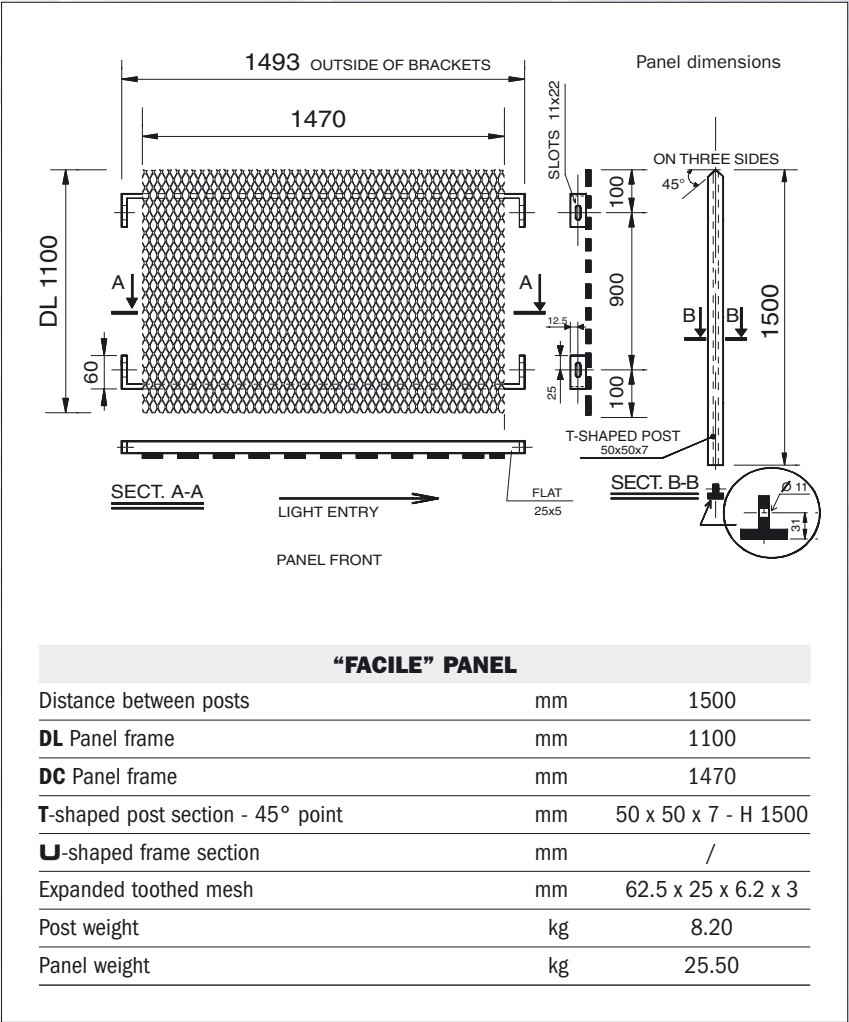
Our fences come in standard sizes and can also be made to order. The posts and fixing bolts are supplied together with the fence panel.

Finish

The panels and posts can be supplied: untreated, hot dip galvanised or painted with polyester powder exterior paint in all RAL table colours.

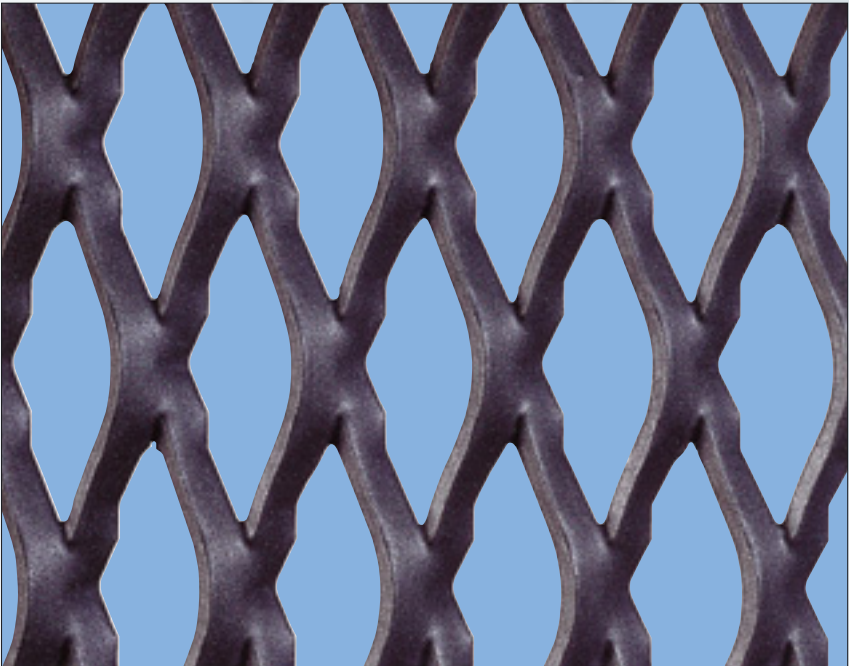


The expanded mesh panels are quickly and simply fitted to the posts using M10 x 25 mm nuts and bolts (hot dip galvanised steel or AISI 304 steel).



Life-size mesh, TYPE 97
DL 62.5 x DC 25 - av 6.2 x sp 3 mm

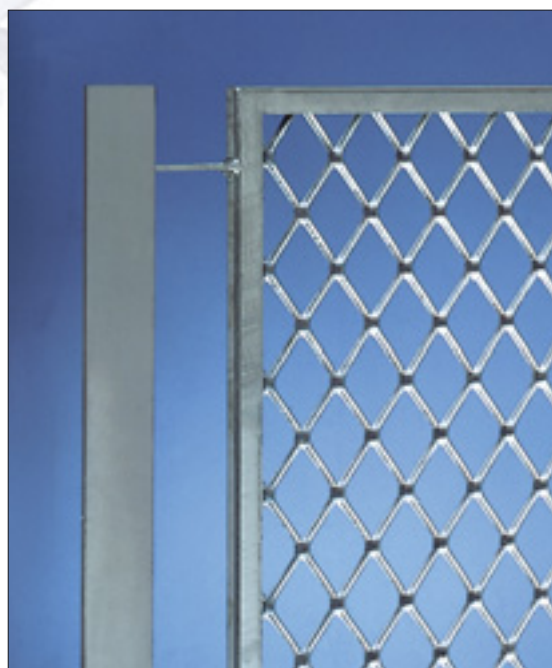
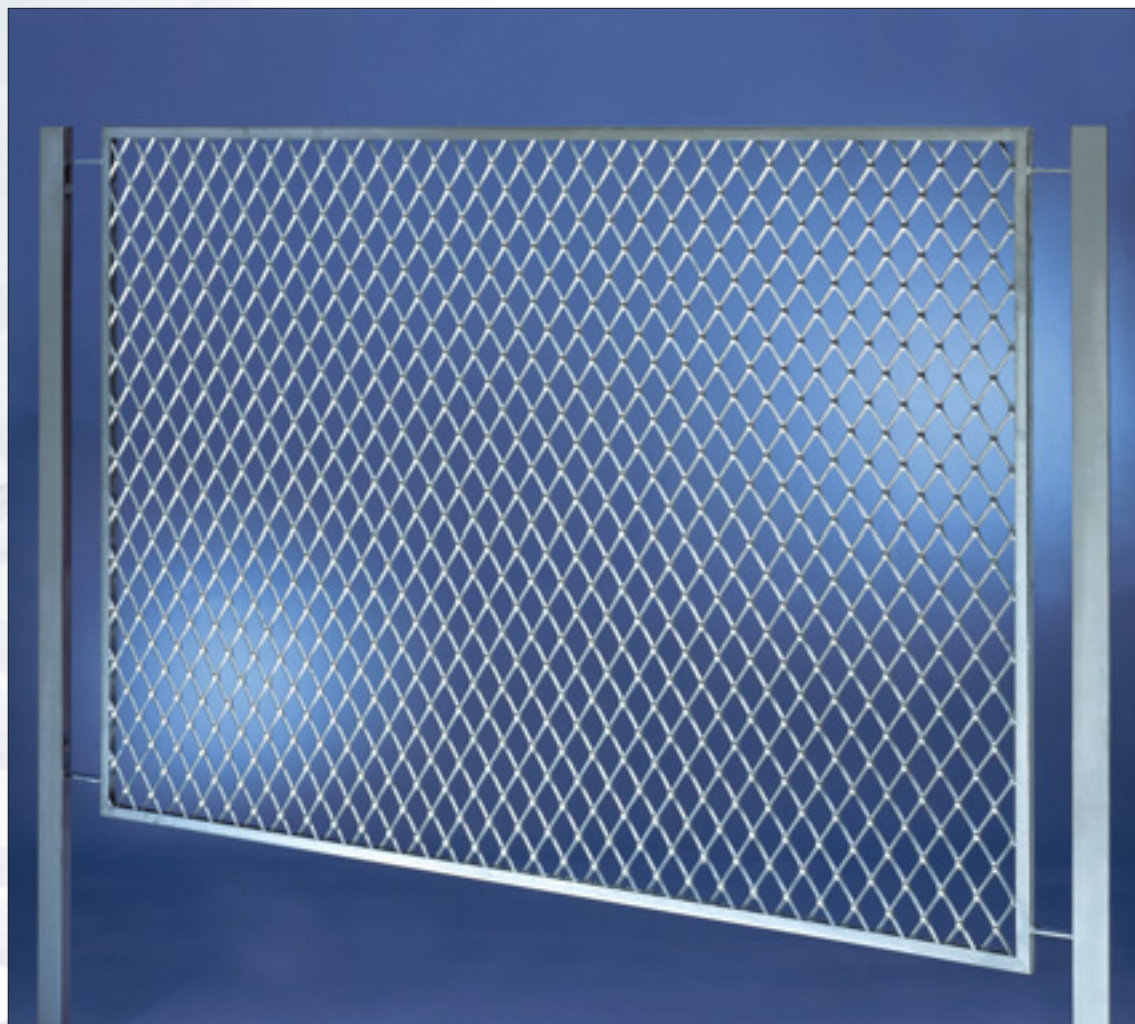
The original tothing of the expanded mesh makes the panel unmistakable and decorative at the same time.



• Panel fencing “Nuova Primavera”

Versatile and practical.

Expanded mesh has revolutionised the concept of fencing. It guarantees practicality and, especially, reliability; it is ideal for residential properties and industrial premises alike.



Production

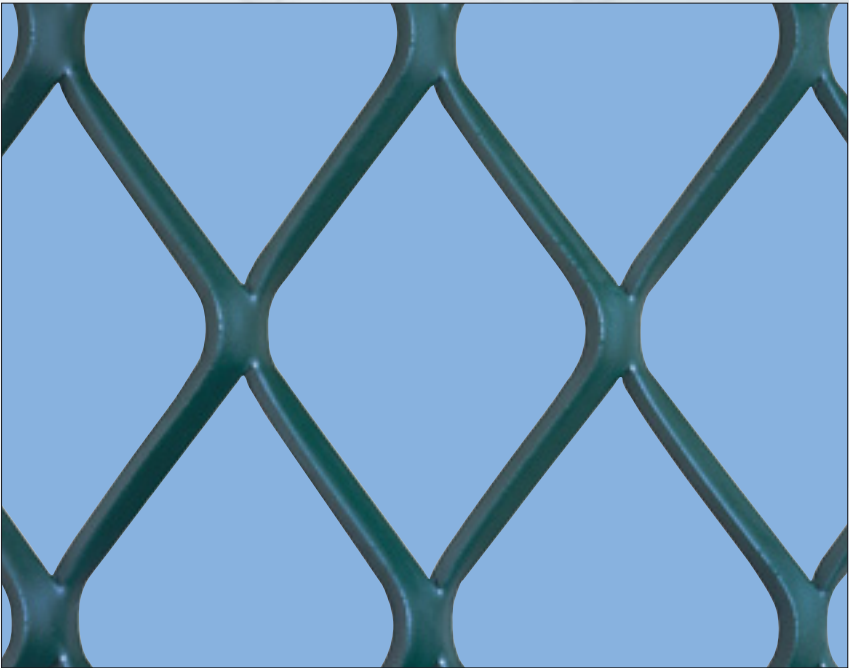
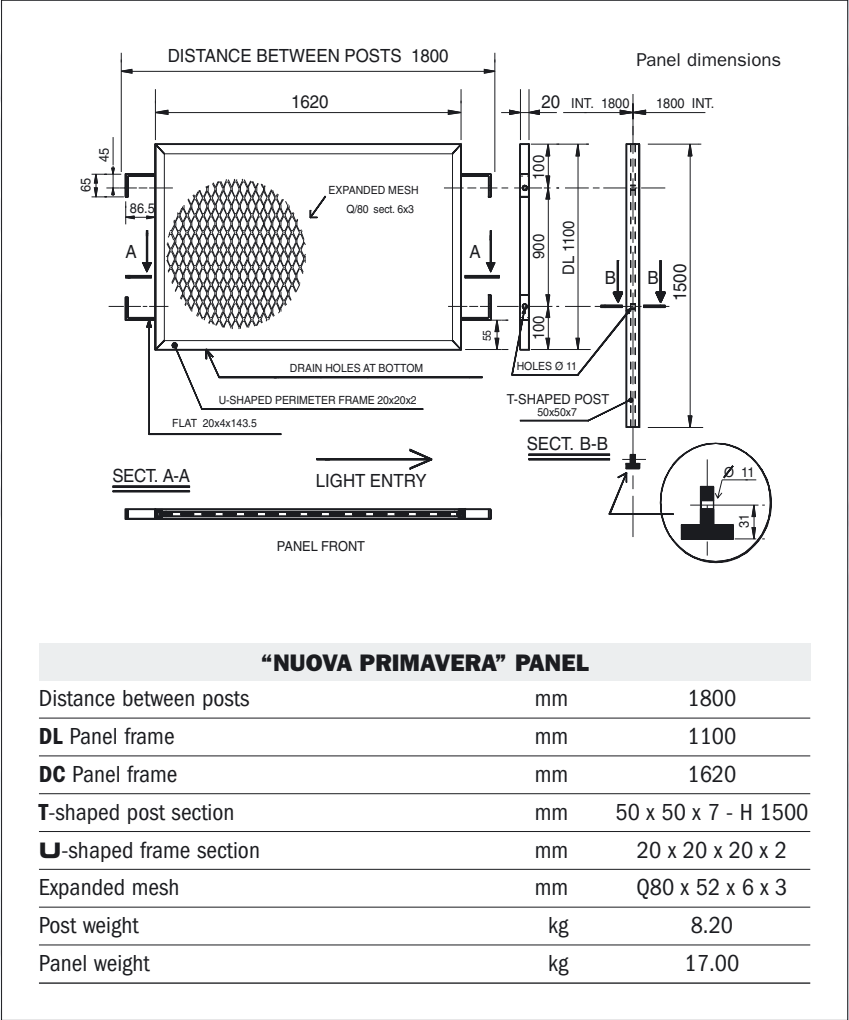
Our fences come in standard sizes and can also be made to order. The posts and fixing bolts are supplied together with the fence panel.

Finish

The panels and posts can be supplied: untreated, hot dip galvanised or painted with polyester powder exterior paint in all RAL table colours.



The expanded mesh panels are quickly and simply fitted to the posts using M10 x 25 mm nuts and bolts (hot dip galvanised steel or AISI 304 steel).



Life-size mesh, TYPE Q80
DL 80 x DC 52 - av 6 x sp 3 mm

• Panel fencing “Roberta”

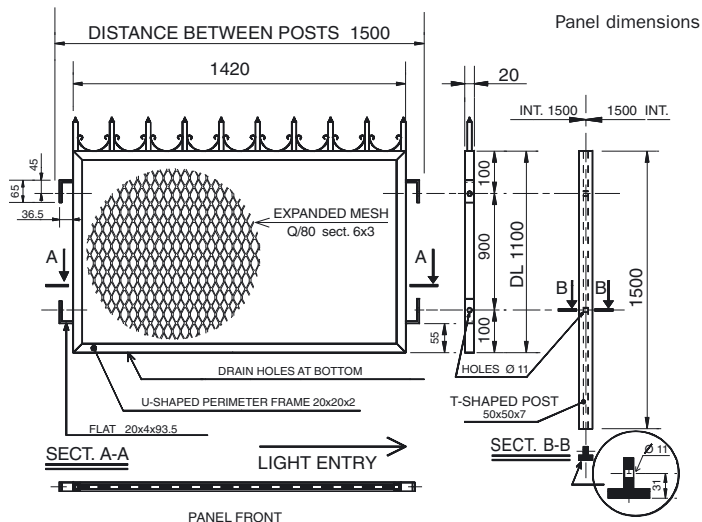
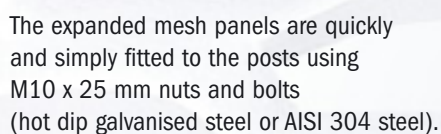
Decorative, ideal everywhere.

Made with the same type of expanded mesh as **Nuova Primavera**, here it has a decorative patterned top reminiscent of the most elegant railings. The look is further embellished by the joins between the panels and posts, for an especially pleasing railing effect.

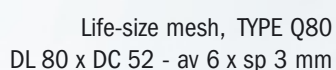


Our fences come in standard sizes and can also be made to order. The posts and fixing bolts are supplied together with the panel.

The panels and posts can be supplied:
untreated, hot dip galvanised or painted with
polyester powder exterior paint in all RAL table
colours.



Distance between posts	mm	1500
DL Panel frame	mm	1100
DC Panel frame	mm	1420
T -shaped post section	mm	50 x 50 x 7 - H 1500
U -shaped frame section	mm	20 x 20 x 20 x 2
Expanded mesh	mm	Q80 x 52 x 6 x 3
Post weight	kg	8.20
Panel weight	kg	20.00

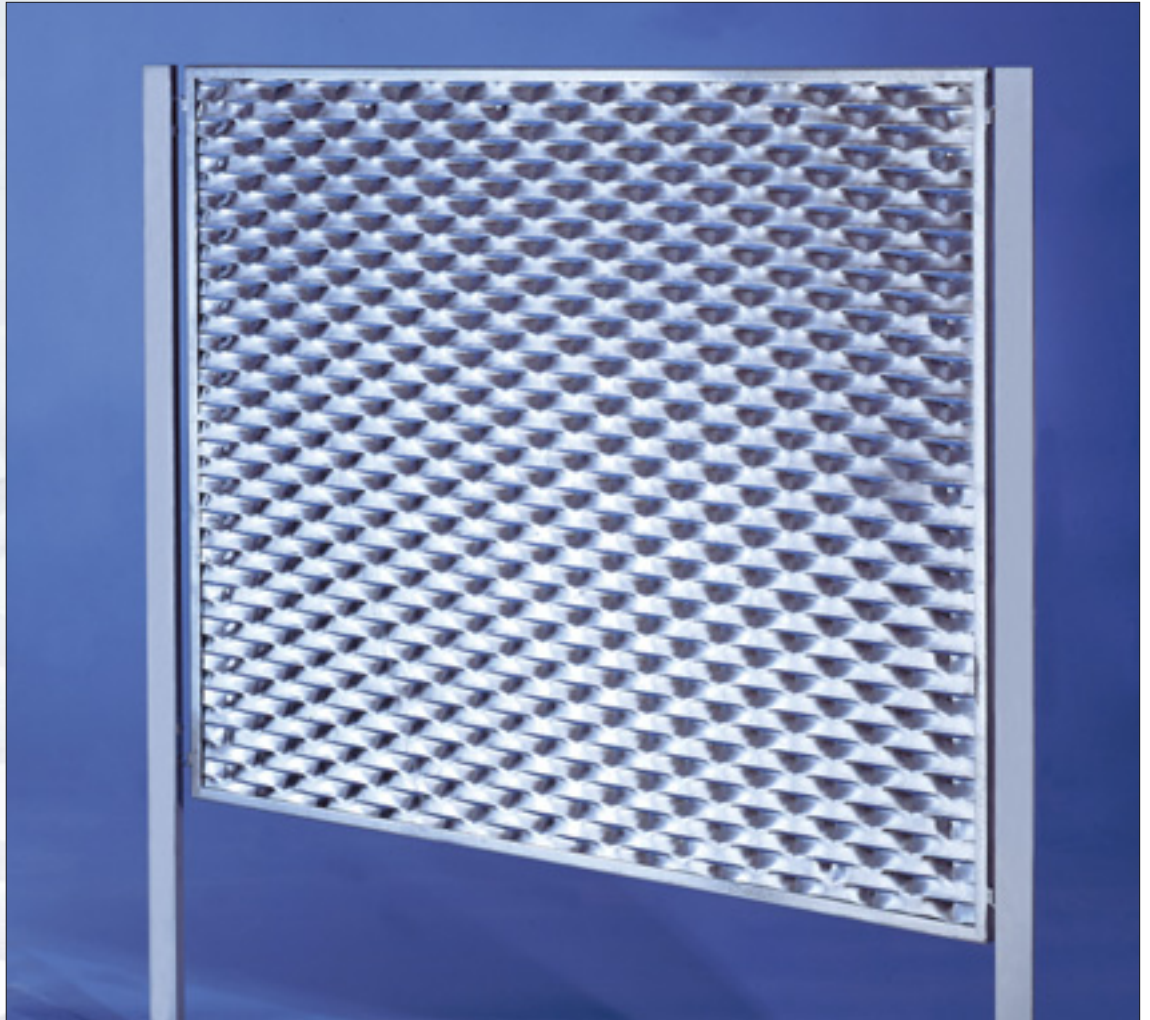


• Panel fencing “Ambasciata”

Prestige and privacy.

An elegant, prestigious and extremely robust fence.

The special type of mesh produced from expanded sheet-metal protects your privacy **by almost totally making it impossible to see through from the outside, whilst allowing good through-vision from the inside.**



Production

Our fences come in standard sizes and can also be made to order. The posts and fixing bolts are supplied together with the panel.

Finish

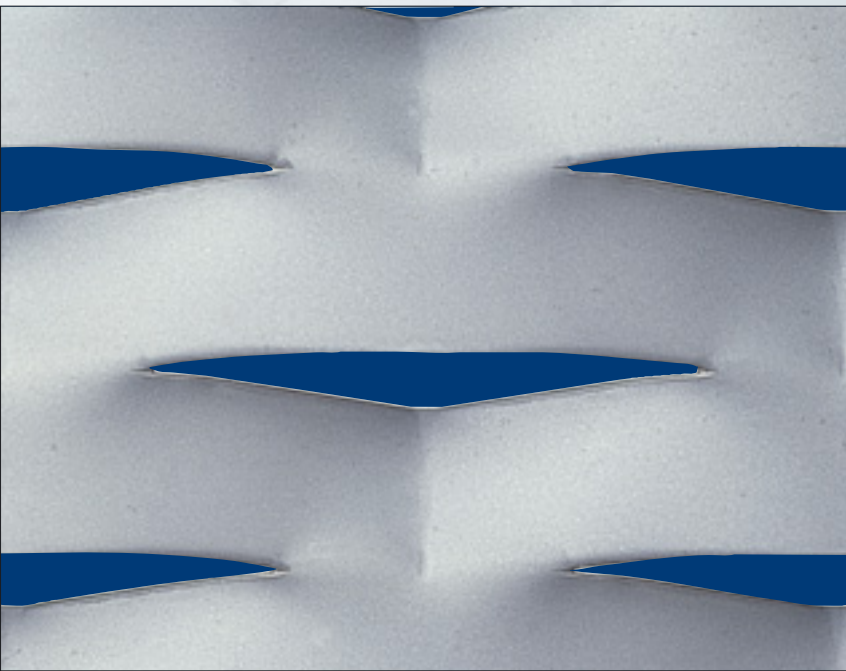
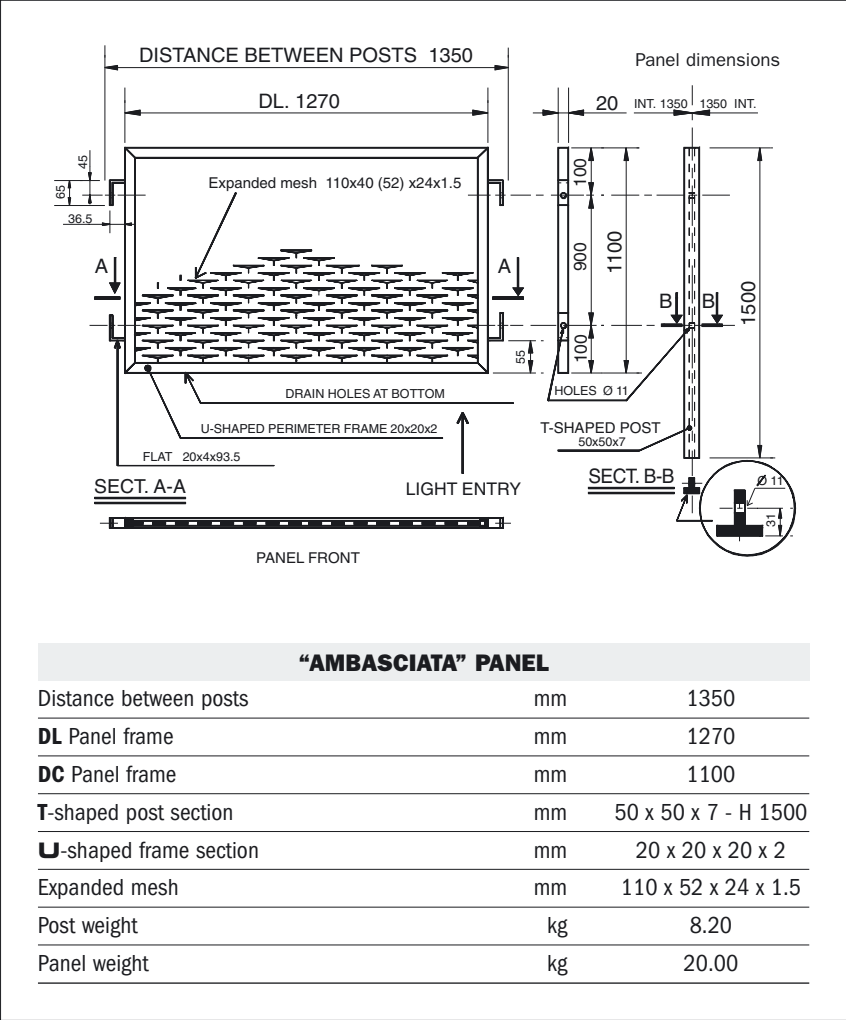
The panels and posts can be supplied: untreated, hot dip galvanised or painted with polyester powder exterior paint in all RAL table colours.



The expanded mesh panels are quickly and simply fitted to the posts using M10 x 25 mm nuts and bolts (hot dip galvanised steel or AISI 304 steel).



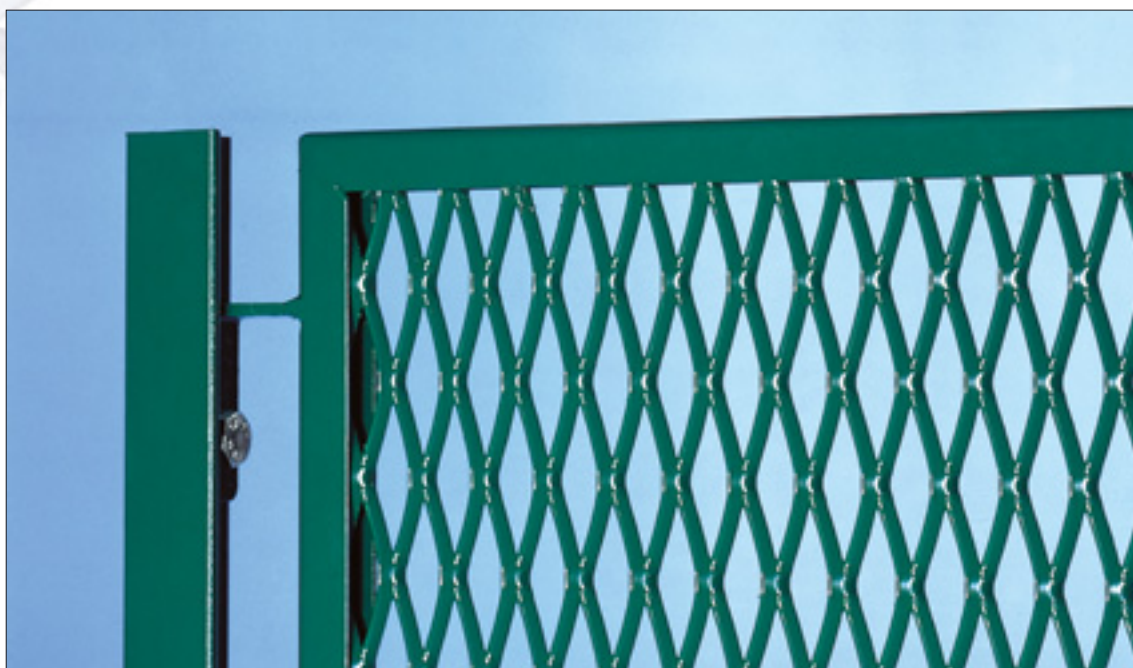
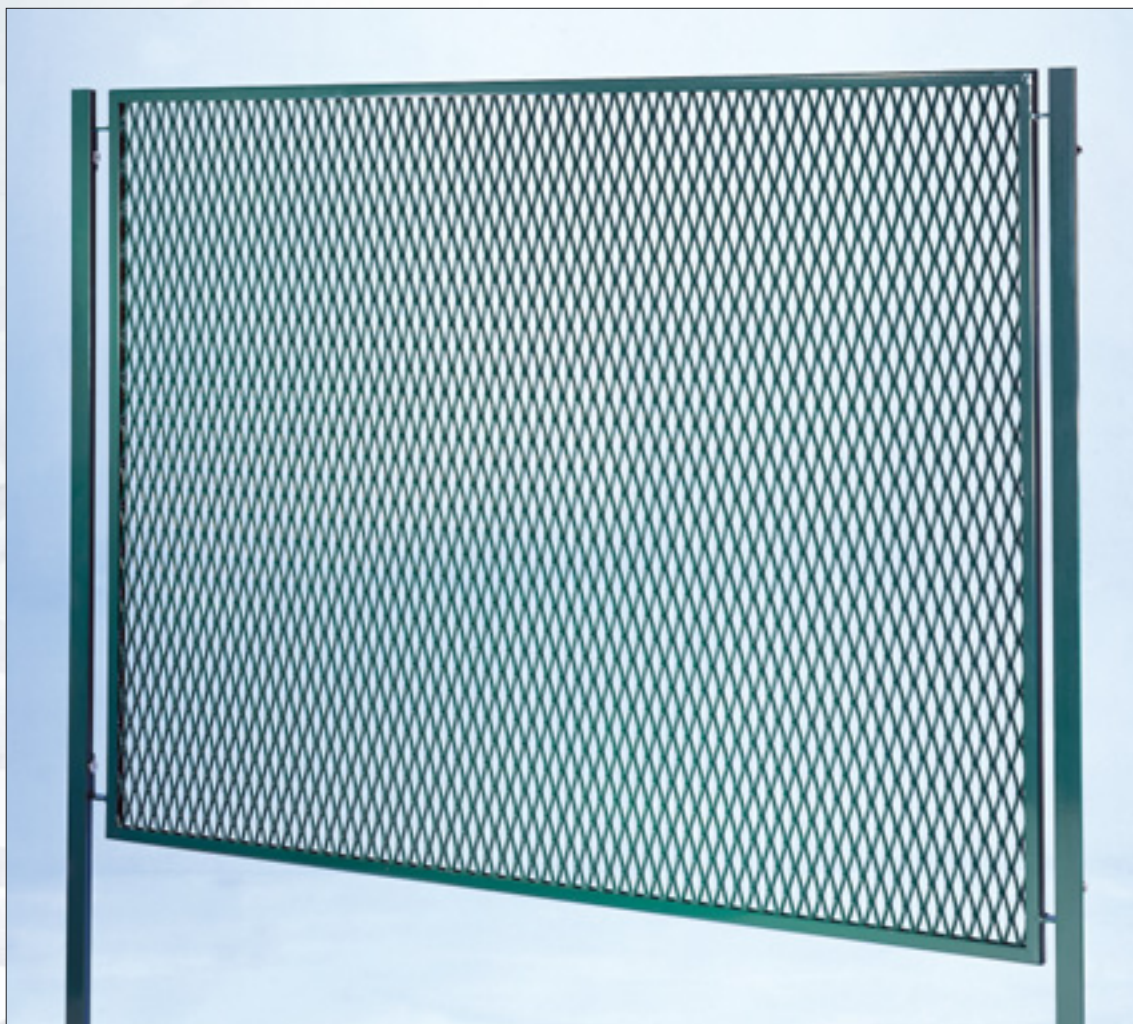
Life-size mesh, TYPE AMBASCIATA
DL 110 x DC 40 (52) - av 24 x sp 1.5 mm



• Panel fencing “Rombo”

A competitive choice.

“Rombo” expanded mesh is also ideal for large areas, such as big industrial complexes, storage areas, parks and shopping centre lots. It guarantees an extremely attractive price/performance ratio.



Production

Our fences come in standard sizes and can also be made to order. The posts and fixing bolts are supplied together with the panel.

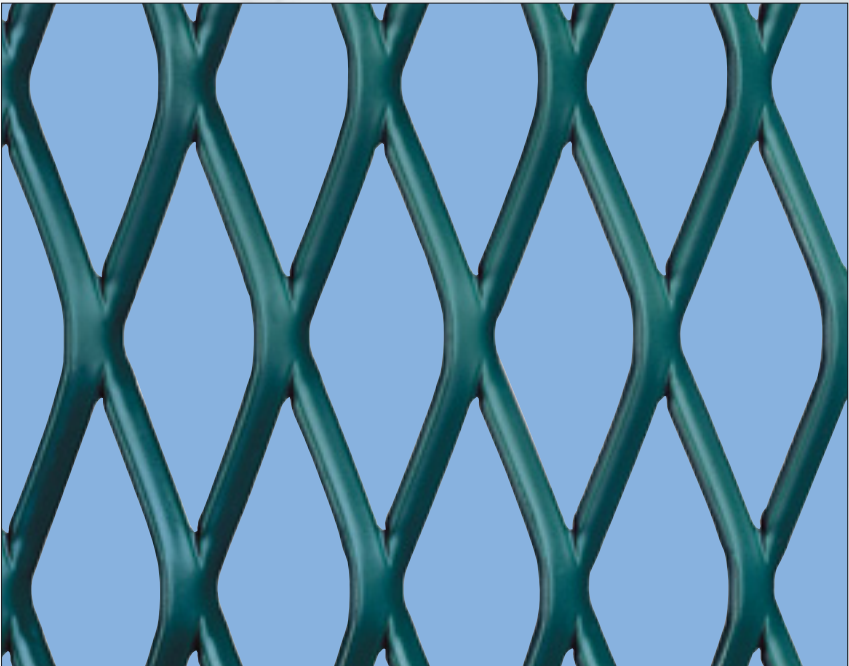
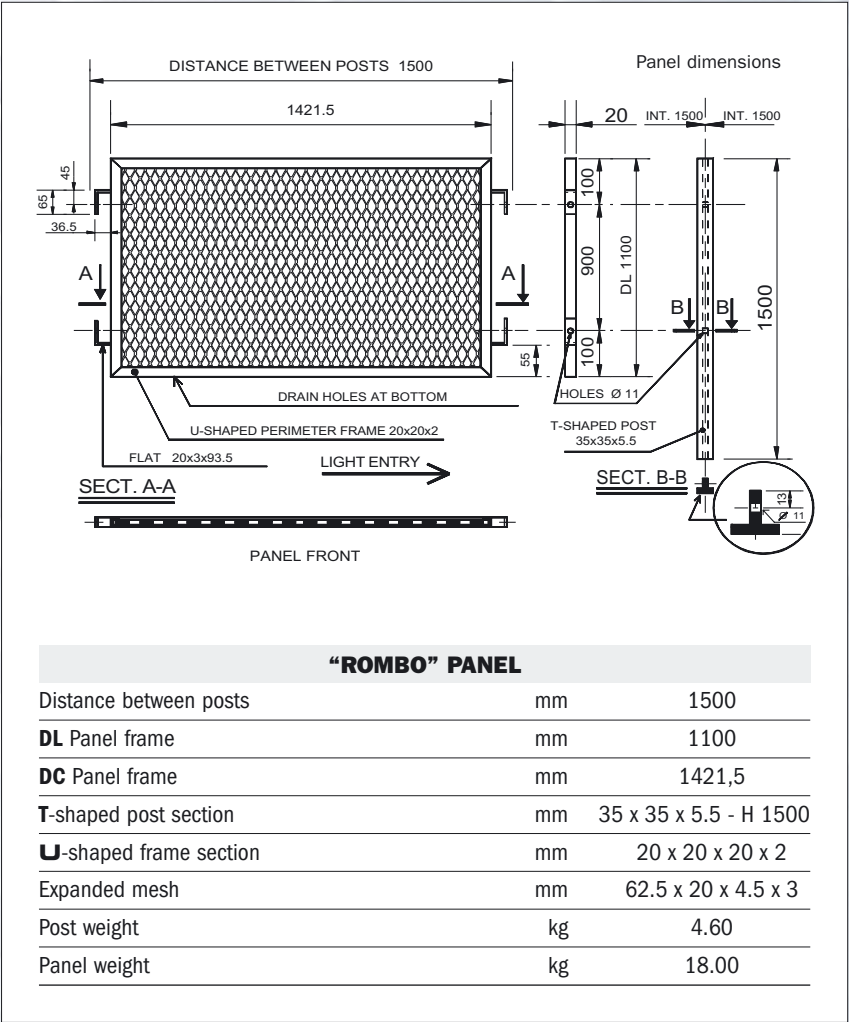
Finish

The panels and posts can be supplied: untreated, hot dip galvanised or painted with polyester powder exterior paint.

Colours available:
RAL 6005 and MILD STEEL.



The expanded mesh panels are quickly and simply fitted to the posts using M10 x 25 mm nuts and bolts (hot dip galvanised steel or AISI 304 steel).



Life-size mesh, TYPE N 22
DL 62.5 x DC 20 (23.4) - av 4.5 x sp 3 mm

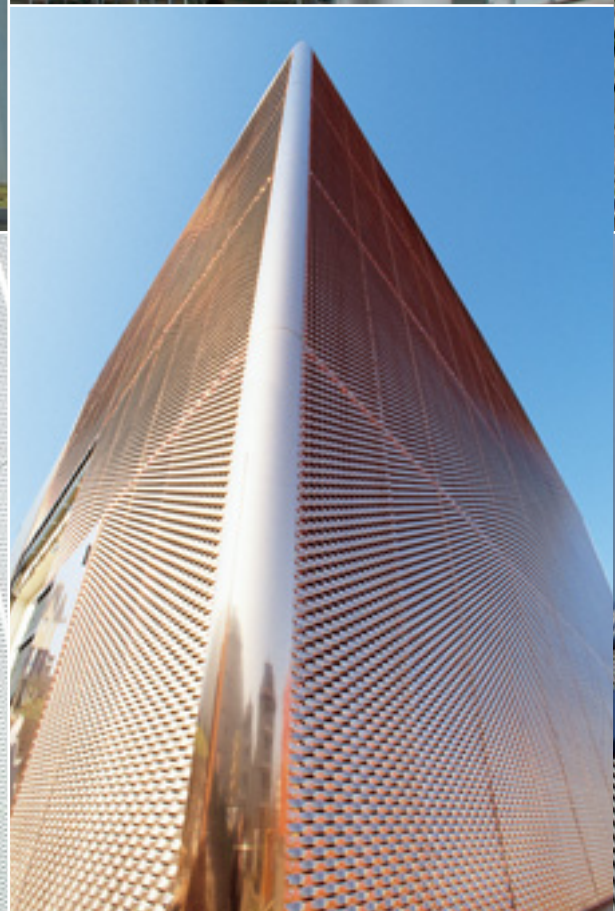


protech line

A technical fabric to clothe modern architecture.

AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Aluminium

AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Aluminium

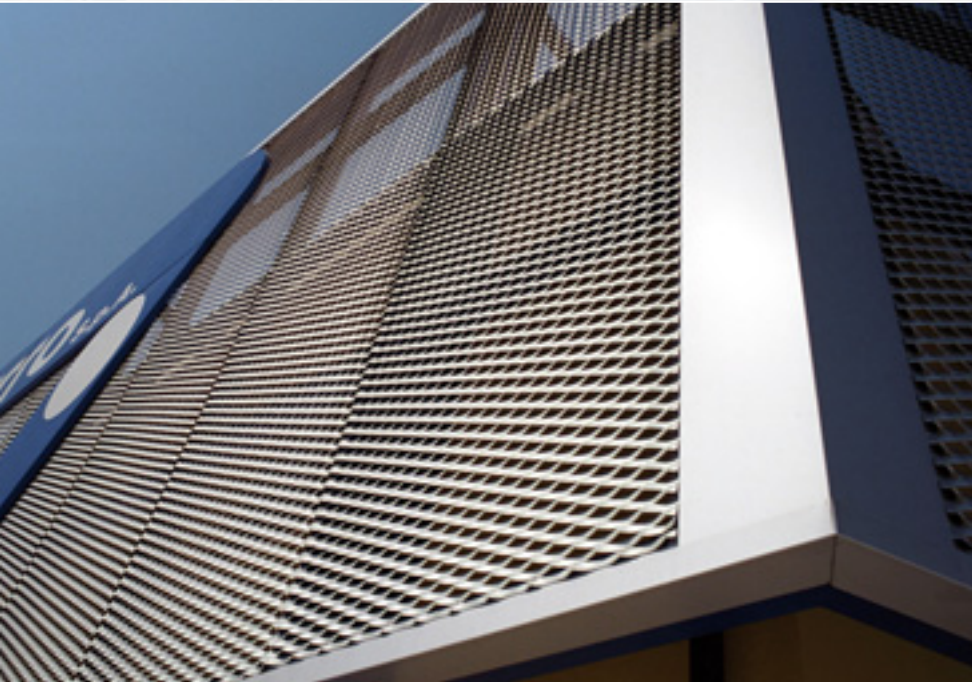


AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Natural anodised aluminium

AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Copper



COLISEUM - DL 200 x DC 75 (80) - av 24 x sp 2 mm
Aluminium



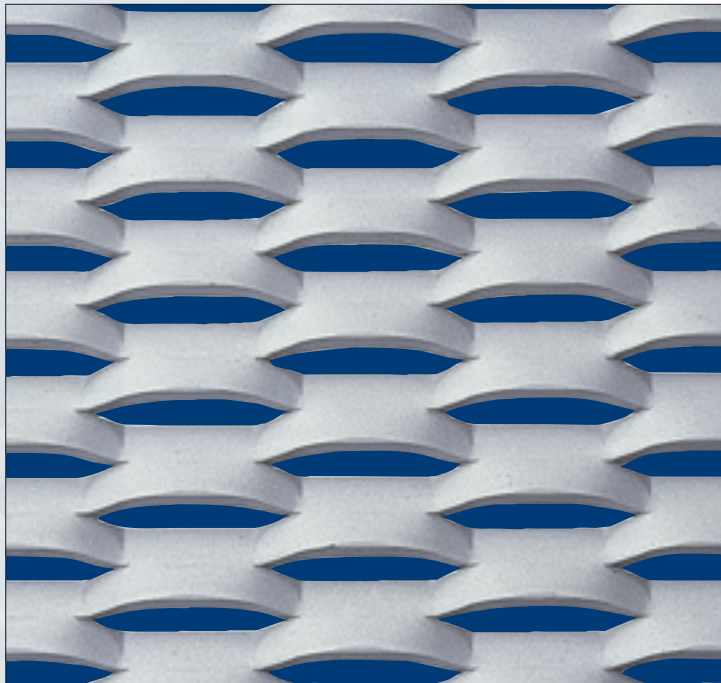
AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm
Aluminium

GATE - DL 76 x DC 31 (35) - av 11 x sp 2 mm
Hot dip galvanised steel

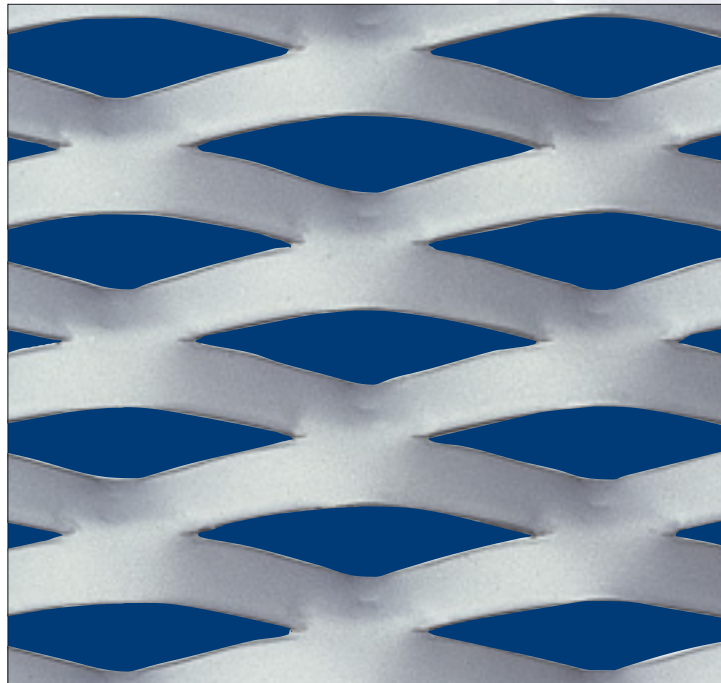
**Personalised choice
for façades and large surfaces.**

The mesh is carefully studied to provide attractive cladding and obtain modular elements.
The materials used (aluminium, steel, copper and other metals) have been treated with a protective finish for long-life.

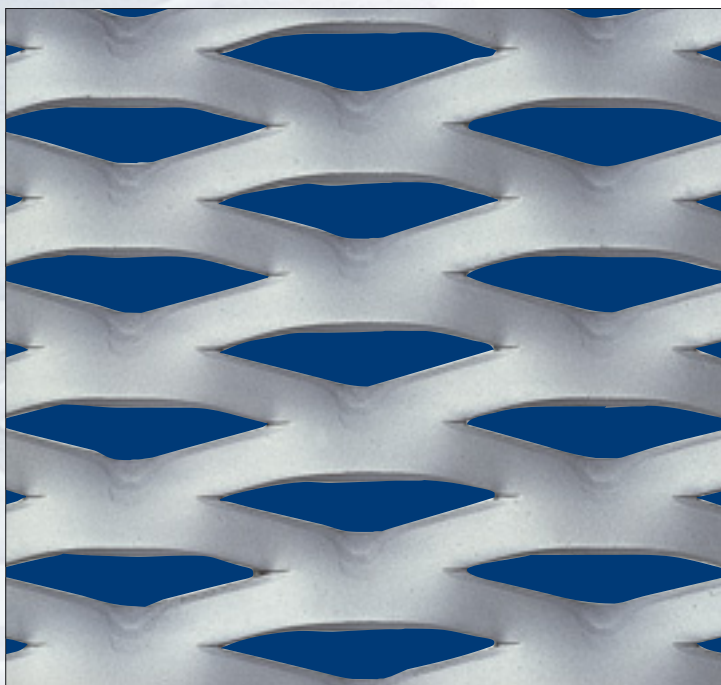
Mesh dimensions 1:1



Fils 21 - DL 45 x DC 15 (13.4) - av 5 x sp 1.5 mm



Airport - DL 62.5 x DC 20 (25.5) - av 9.1 x sp 1.5 mm



Fils 5 - DL 62.5 x DC 20 - av 7.5 x sp 1.5 mm



Gate - DL 76 x DC 31 (35) - av 11 x sp 1.5 mm

Type	Mesh mm	Steel kg/m ²	Aluminium kg/m ²	DL sizes mm	% front aperture
Fils 21	45 x 15 (13.4) - 5 x 3	17.5	6.0	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 2000]	23%
	45 x 15 (13.4) - 5 x 2	11.6	4.0		
	45 x 15 (13.4) - 5 x 1.5	8.8	3.0		
Fils 5	62.5 x 20 - 7.5 x 3	18.0	6.0	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 2000]	25%
	62.5 x 20 - 7.5 x 2	12.0	4.0		
	62.5 x 20 - 7.5 x 1.5	9.0	3.0		
Airport	62.5 x 20 (25.5) - 9.1 x 2	11.0	3.6	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 2000]	28.5%
	62.5 x 20 (25.5) - 9.1 x 1.5	8.2	2.7		
Gate	76 x 31 (35) - 11 x 2	10.2	3.4	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 2300]	37%
	76 x 31 (35) - 11 x 1.5	7.8	2.6		

The sheet dimensions can be made to order.

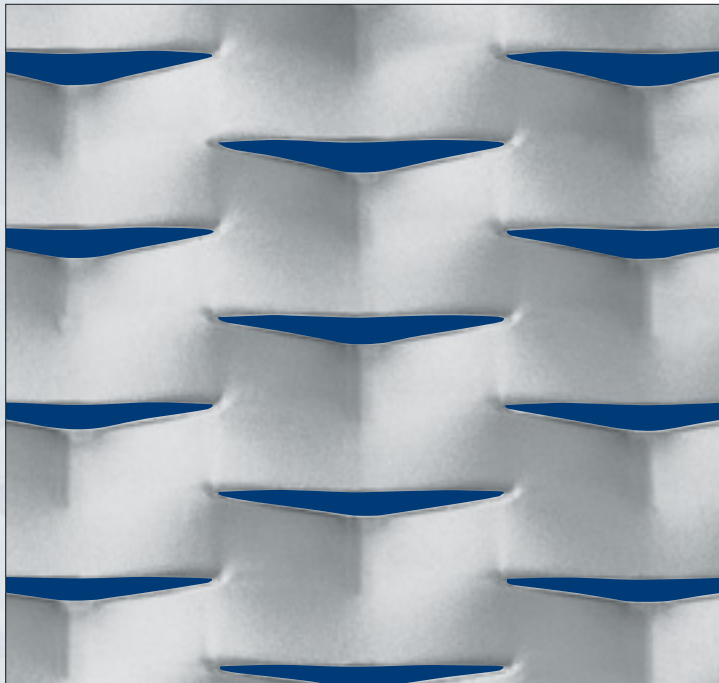


AMBASCIATA - DL 110 x DC 40 (52) - av 24 x sp 2 mm
Hot dip galvanised steel

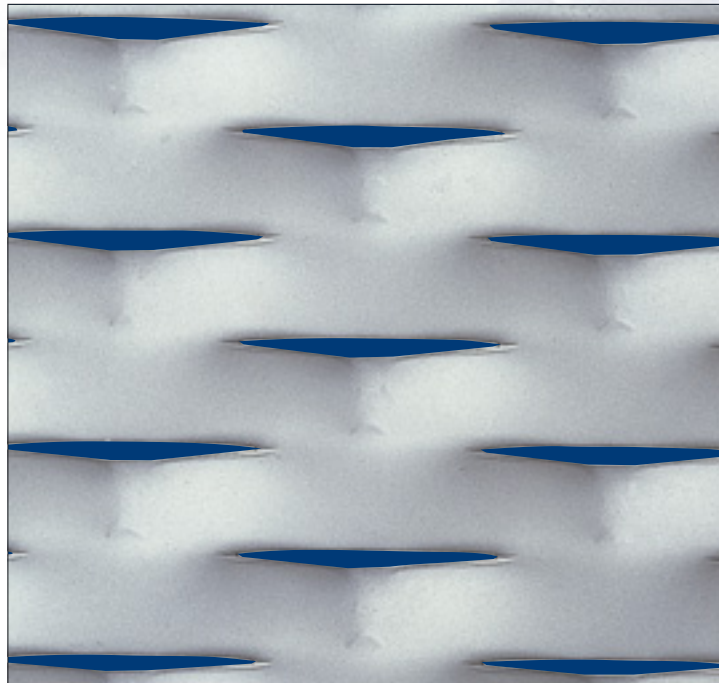


AIRPORT - DL 62,5 x DC 20 (25.5) - av 9.1 x sp 1.5 mm
Natural anodised aluminium

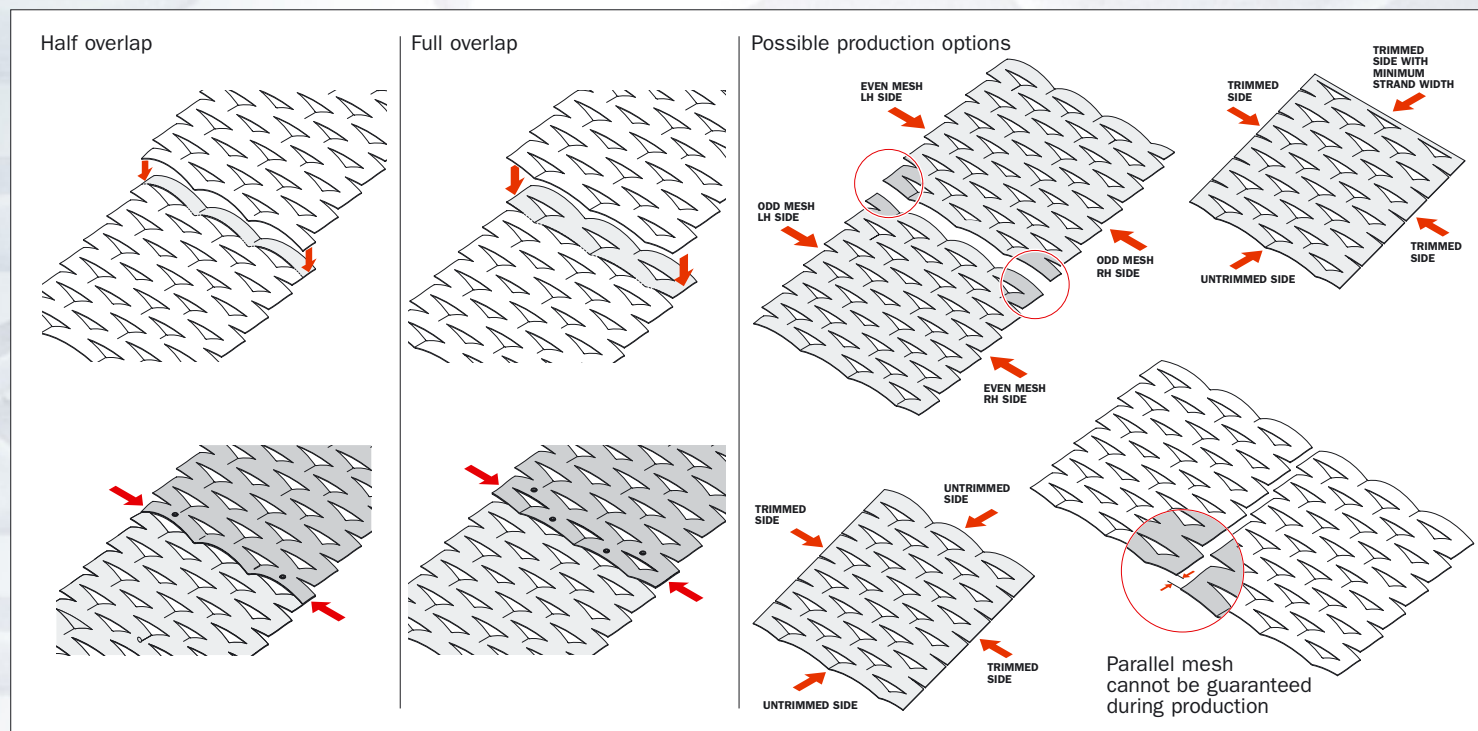
Mesh dimensions 1:1



Idea - DL 76 x DC 31 (24) - av 11 x sp 1.5 mm



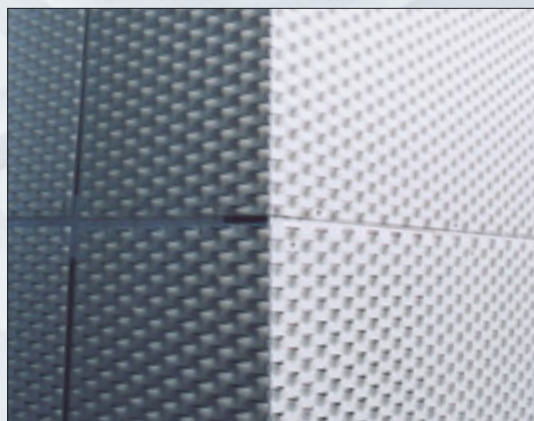
Privacy - DL 62.5 x DC 20 (28) - av 14 x sp 1.5 mm



Type	Mesh mm	Steel kg/m ²	Aluminium kg/m ²	DL sizes mm	% front aperture
Idea	76 x 31 (24) - 11 x 1.5	10.6	3.6	1000 - 1250 - 1500 x 3000	8.5%
	76 x 31 (24) - 11 x 2	14.1	4.7	2000 - 2500 x max. 1600	

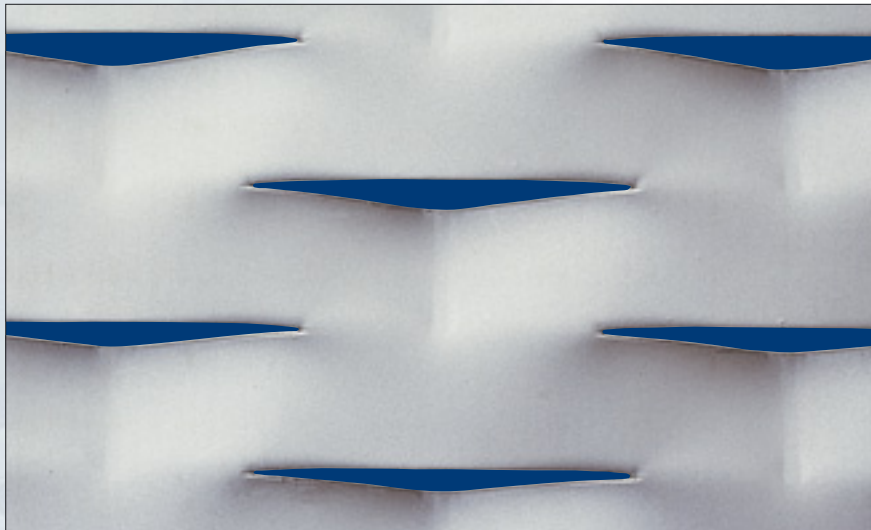
Privacy	62.5 x 20 (28) - 14 x 2	15.6	5.2	1000 - 1250 - 1500 x 3000	0%
	62.5 x 20 (28) - 14 x 1.5	11.7	3.9	2000 - 2500 x max. 1500	

The sheet dimensions can be made to order.

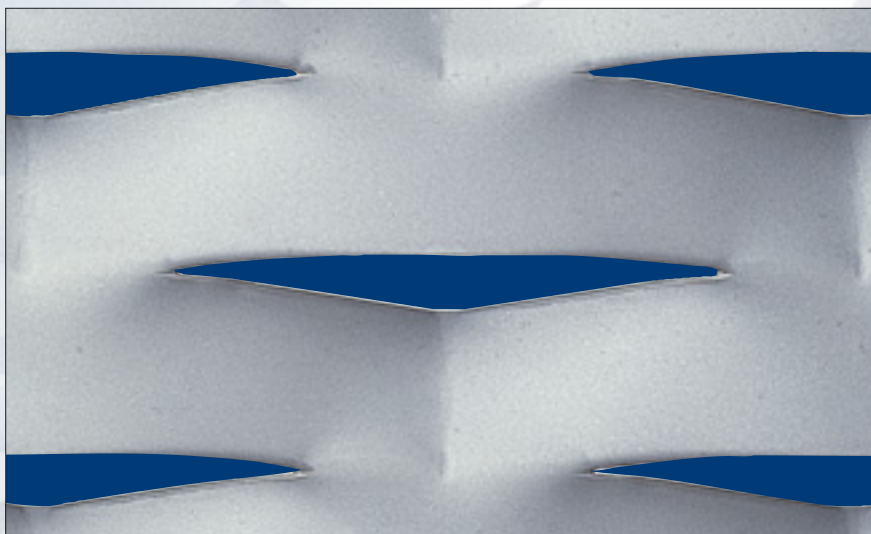


PRIVACY - DL 62.5 x DC 20 (28) - av 14 x sp 1.5 mm
Natural anodised aluminium

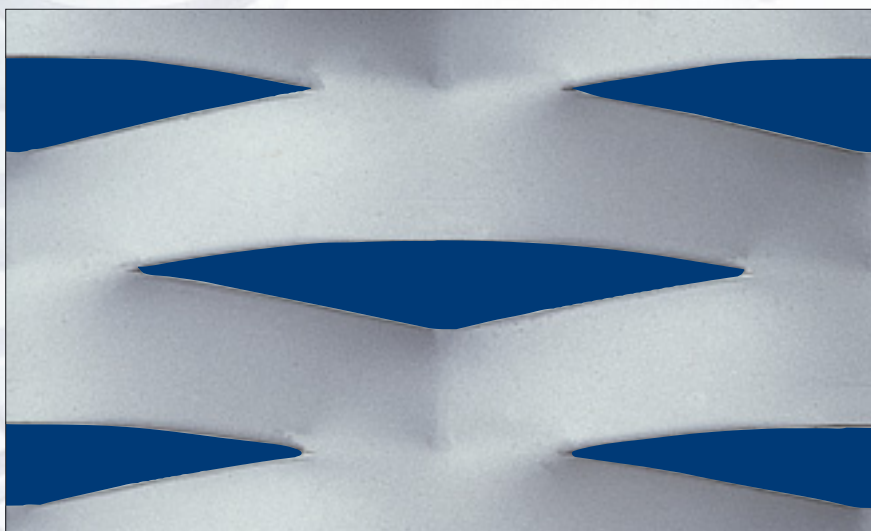
Mesh dimensions 1:1



Reserve - DL 90 x DC 30 (38) - av 18 x sp 1.5 mm



Ambasciata - DL 110 x DC 40 (52) - av 24 x sp 1.5 mm



Academy - DL 115 x DC 40 (48) - av 20 x sp 1.5 mm



1

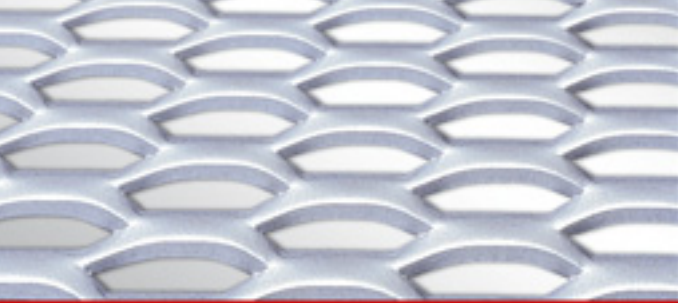
1/2 - ACADEMY - DL 115 x DC 40 (48) - av 20 x sp 1.5 mm

1 - Anodised aluminium, bronze

2 - Anodised aluminium paintend with polyester powder exterior paint

3 - AMBASCIATA - DL 110 x 40 (52) - av 24 x sp 1.5 mm

Hot dip galvanised Sendzimir steel



Type	Mesh mm	Steel kg/m ²	Aluminium kg/m ²	DL sizes mm	% front aperture
Reserve	90 x 30 (38) - 18 x 1.5	11.0	3.6	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 1500]	5%
	90 x 30 (38) - 18 x 2	14.6	4.8		
Ambasciata	110 x 40 (52) - 24 x 3	21.1	7.0	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 1600]	7.5%
	110 x 40 (52) - 24 x 2	14.1	4.7		
	110 x 40 (52) - 24 x 1.5	10.6	3.6		
Academy	115 x 40 (48) - 20 x 3	19.3	6.4	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 1800]	16.5%
	115 x 40 (48) - 20 x 2	12.8	4.2		
	115 x 40 (48) - 20 x 1.5	9.7	3.2		
Sierra	160 x 40 (52) - 24 x 1.5	10.6	3.6	[1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 1600]	7.5%
	160 x 40 (52) - 24 x 2	14.1	4.7		

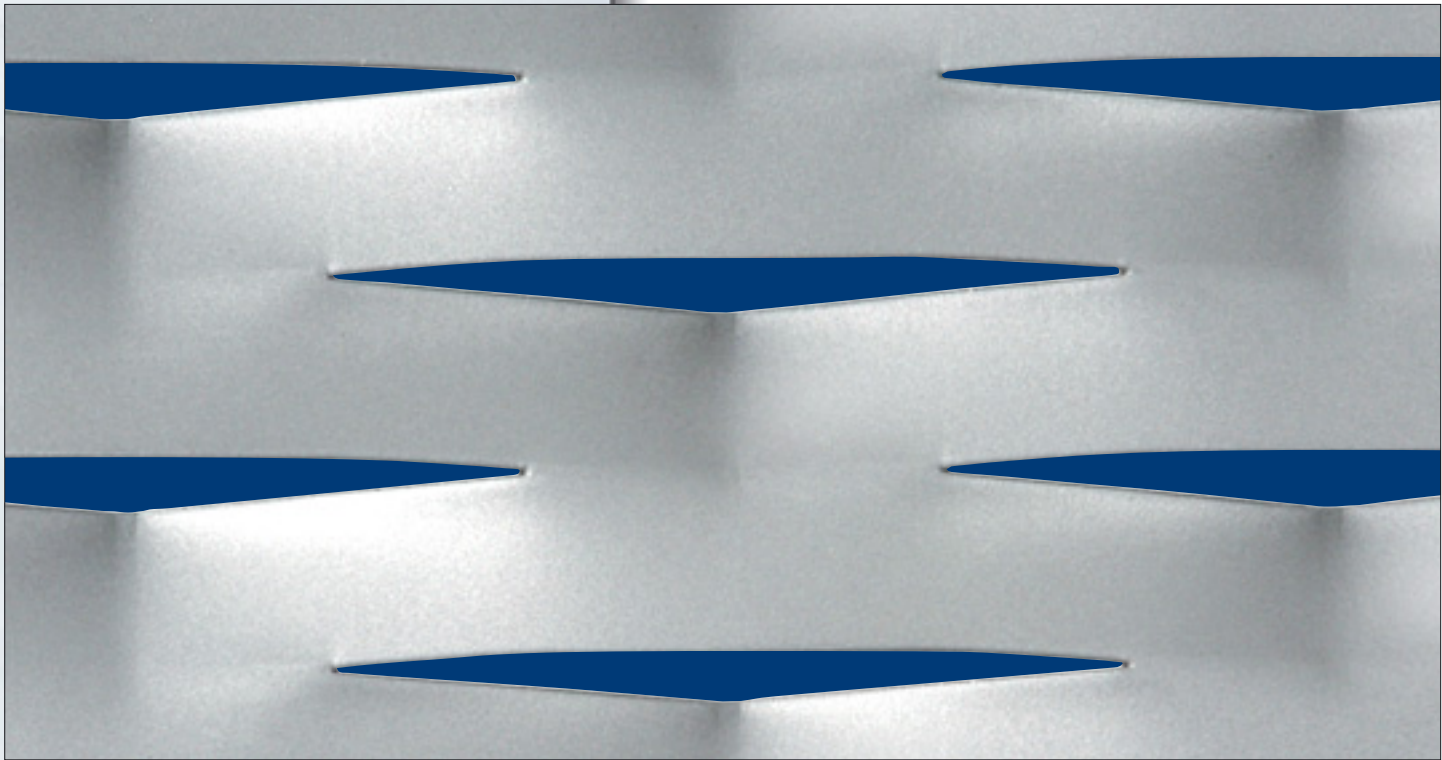
The sheet dimensions can be made to order.



2

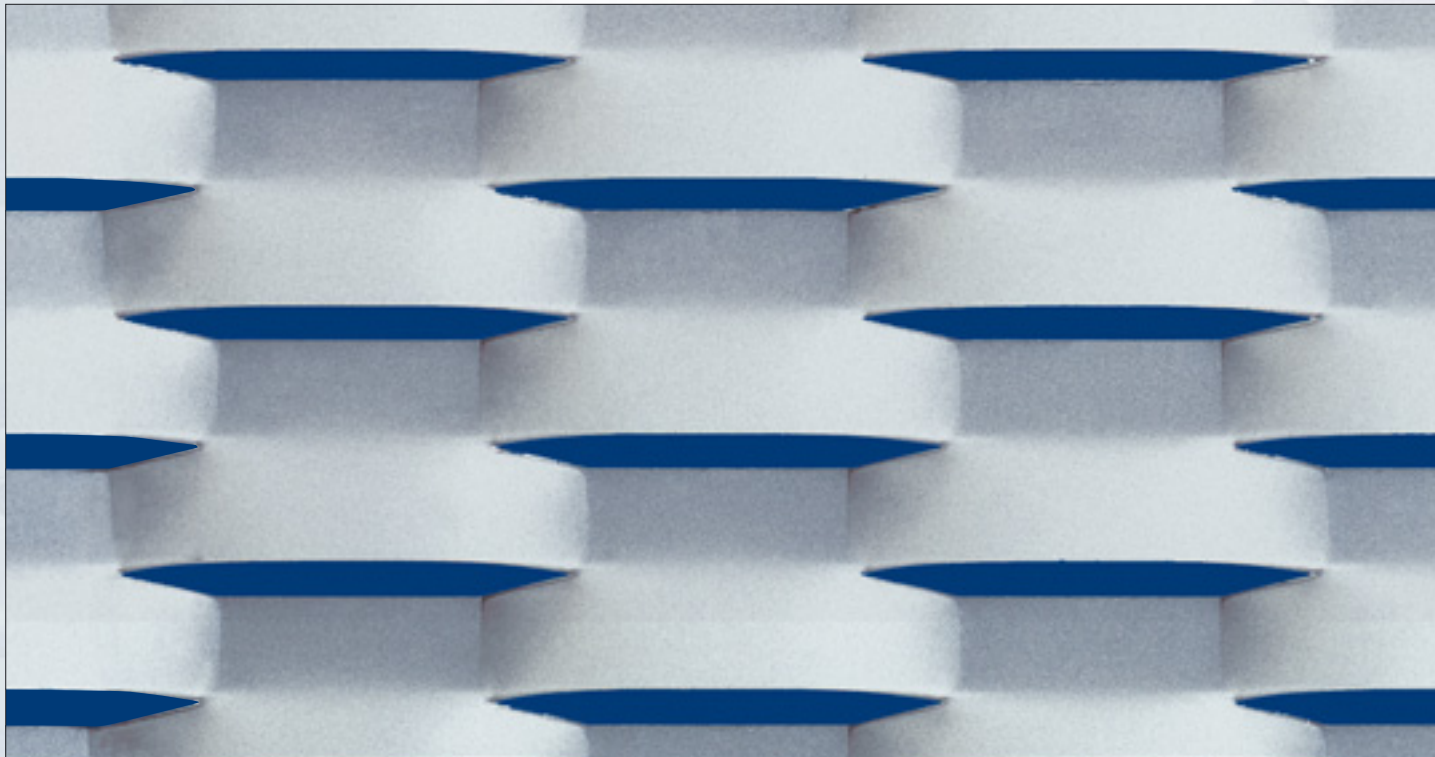


3

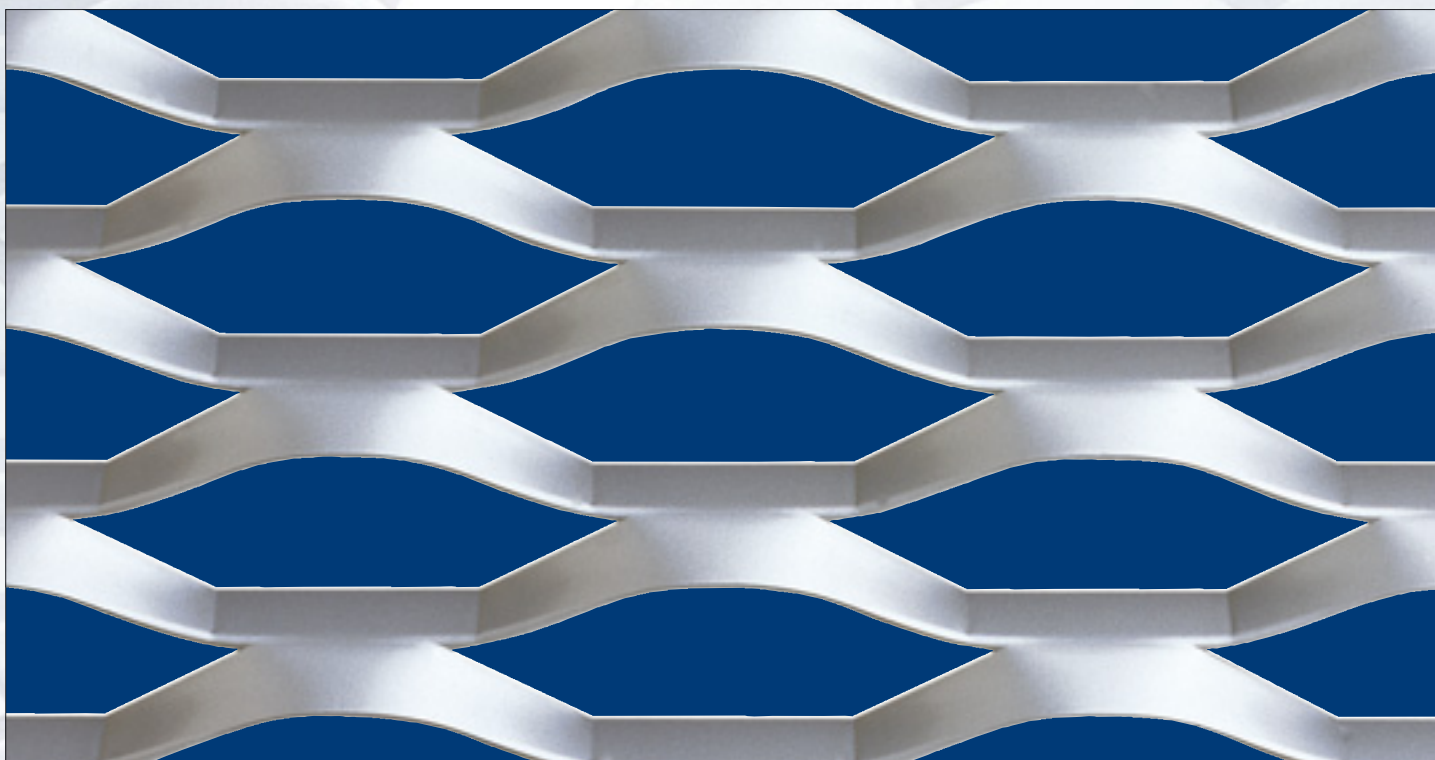


Sierra - DL 160 x DC 40 (52) - av 24 x sp 1.5 mm

Mesh dimensions 1:1



Esperia - DL 100 x DC 40 (34) - av 15 x sp 1.5 mm



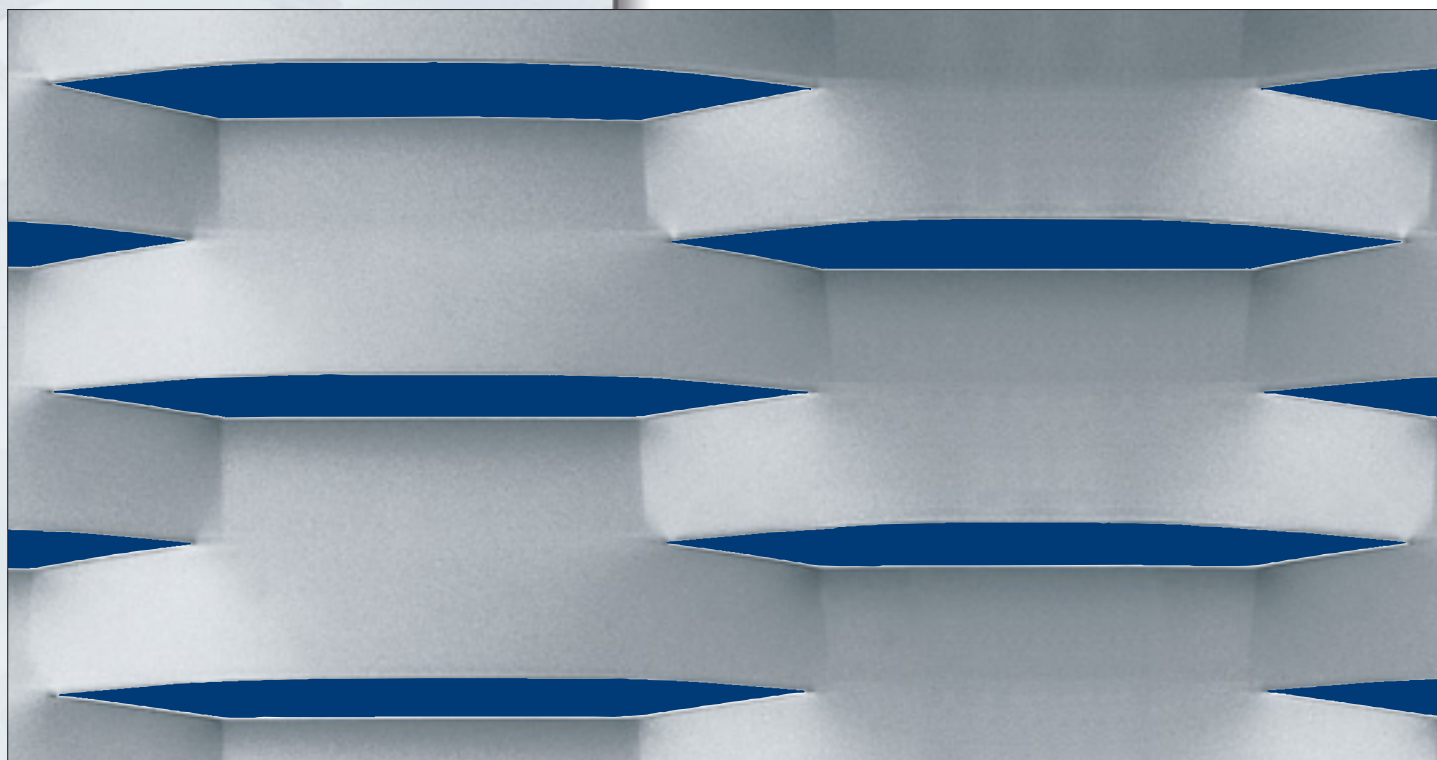
Grafica - DL 100 x DC 40 (34) - av 10 x sp 1.5 mm

Type	Mesh mm	Steel kg/m ²	Aluminium kg/m ²	DL sizes mm	% front aperture
Esperia	100 x 40 (34) - 15 x 1.5	10.3	3.4	1000 - 1250 - 1500 x 3000	11.5%
	100 x 40 (34) - 15 x 2	13.7	4.5	2000 x 2500 x max. 1700	
Grafica	100 x 40 (34) - 10 x 1.5	6.9	2.3	1000 - 1250 - 1500 x 3000	41.0%
	100 x 40 (34) - 10 x 2	9.3	3.1	2000 - 2500 x max. 2500	
College	160 x 40 (40) - 18 x 1.5	10.8	3.6	1000 - 1250 - 1500 x 3000	10.0%
	160 x 40 (40) - 18 x 2	14.4	4.8	2000 - 2500 x max. 1600	

The sheet dimensions can be made to order.

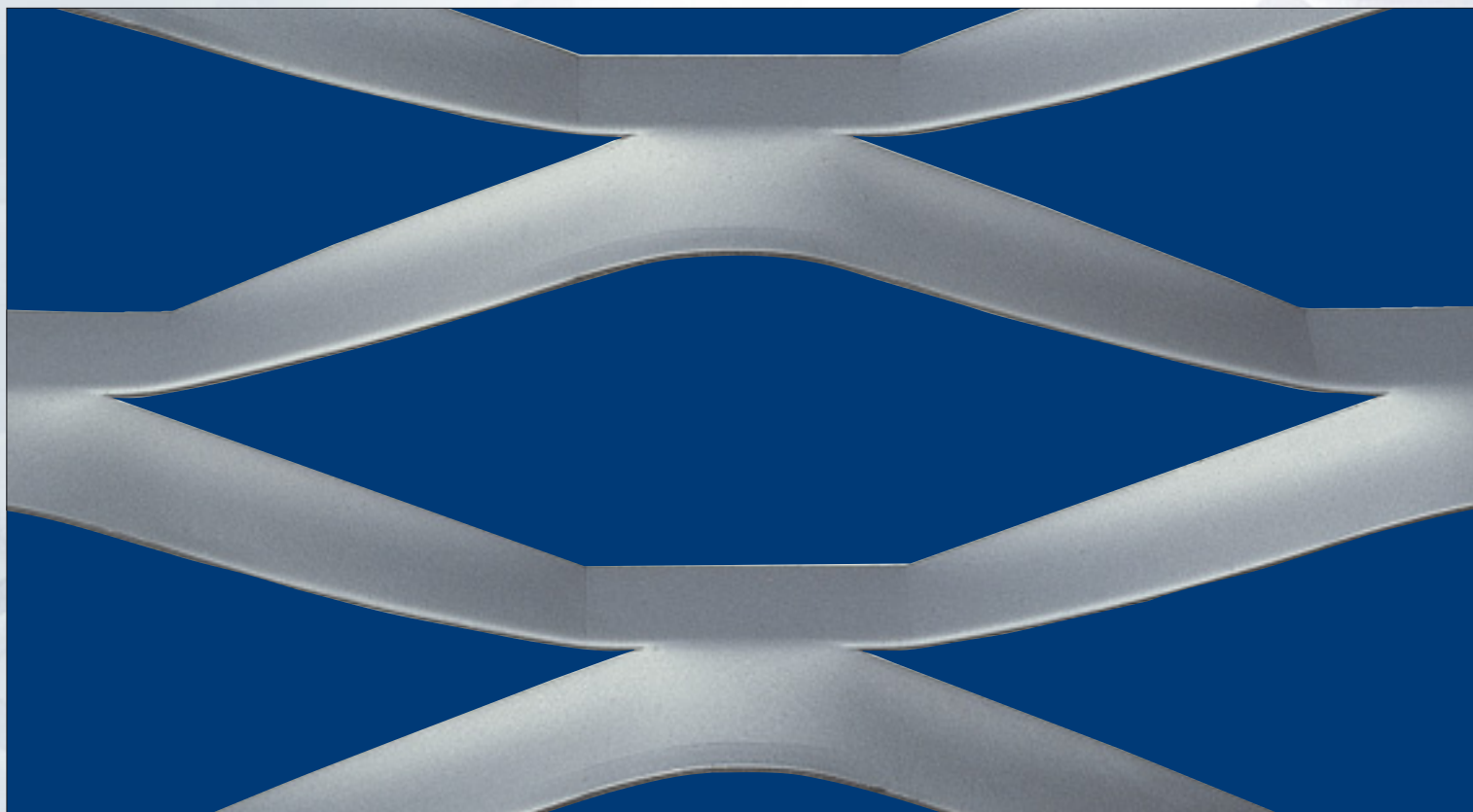


ESPERIA - DL 100 x DC 40 (34) - av 15 x sp 1.5 mm
Aluminium painted
with polyester powder exterior paint

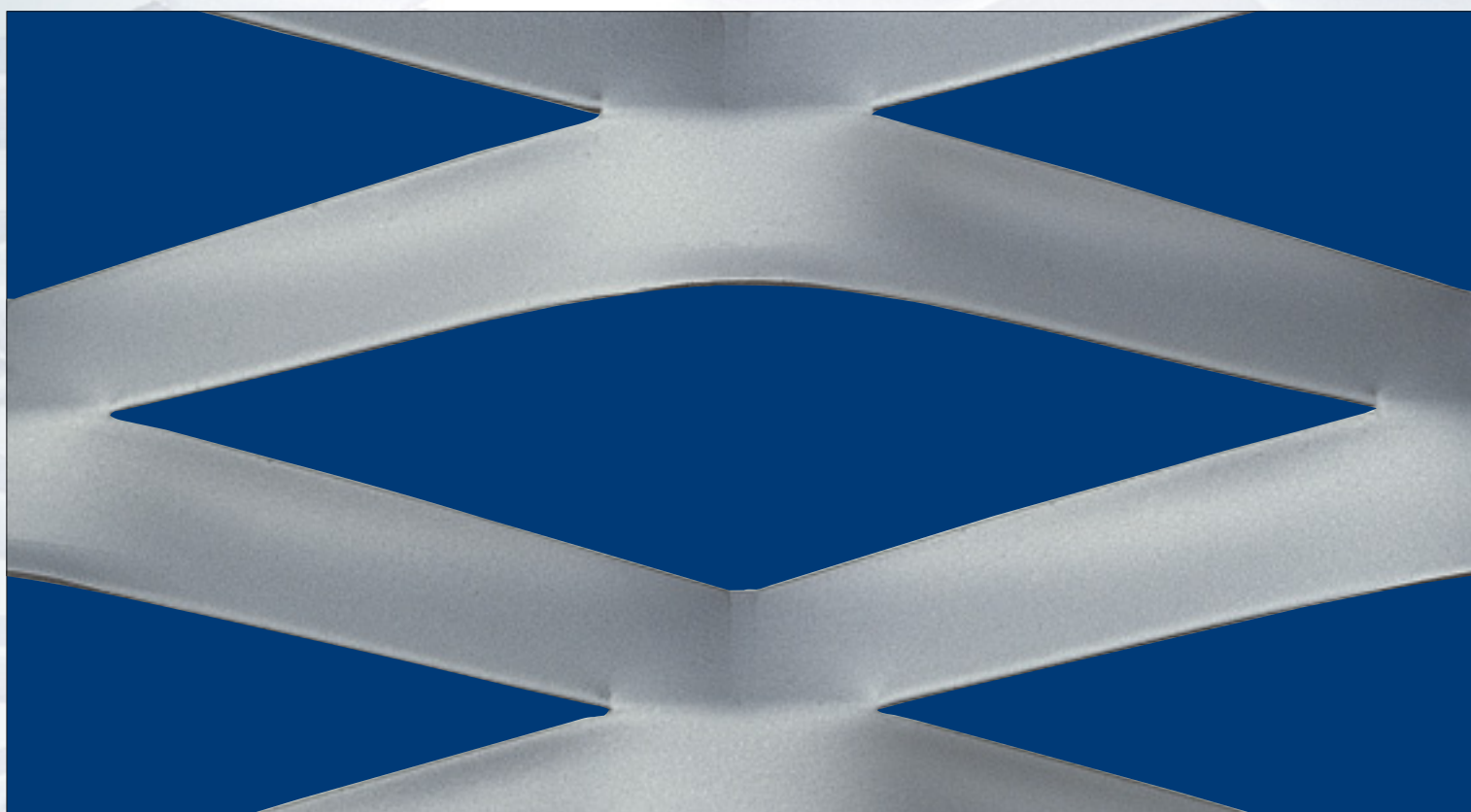


College - DL 160 x DC 40 (40) - av 18 x sp 1.5 mm

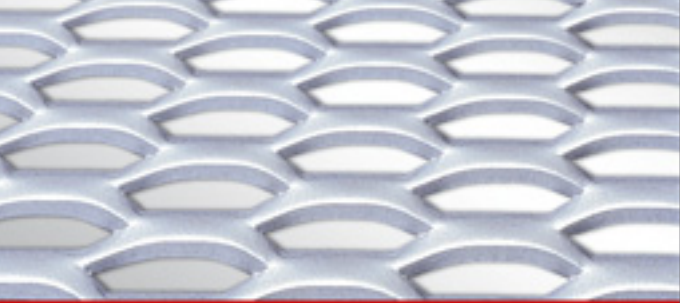
Mesh dimensions 1:1



Stadium - DL 200 x DC 65 (70) - av 20.6 x sp 1.5 mm



Coliseum - DL 200 x DC 75 (80) - av 24 x sp 1.5 mm



Type	Mesh mm	Steel kg/m ²	Aluminium kg/m ²	DL sizes mm	% front aperture
Stadium	200 x 65 (70) - 20.6 x 3	14.0	4.6	1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 2500	41%
	200 x 65 (70) - 20.6 x 2	9.3	3.1		
	200 x 65 (70) - 20.6 x 1.5	7.2	2.4		
Coliseum	200 x 75 (80) - 24 x 3	14.1	4.7	1000 - 1250 - 1500 x 3000 2000 - 2500 x max. 2500	40%
	200 x 75 (80) - 24 x 2	9.4	3.2		
	200 x 75 (80) - 24 x 1.5	7.1	2.4		

The sheet dimensions can be made to order.



1



2



3



4

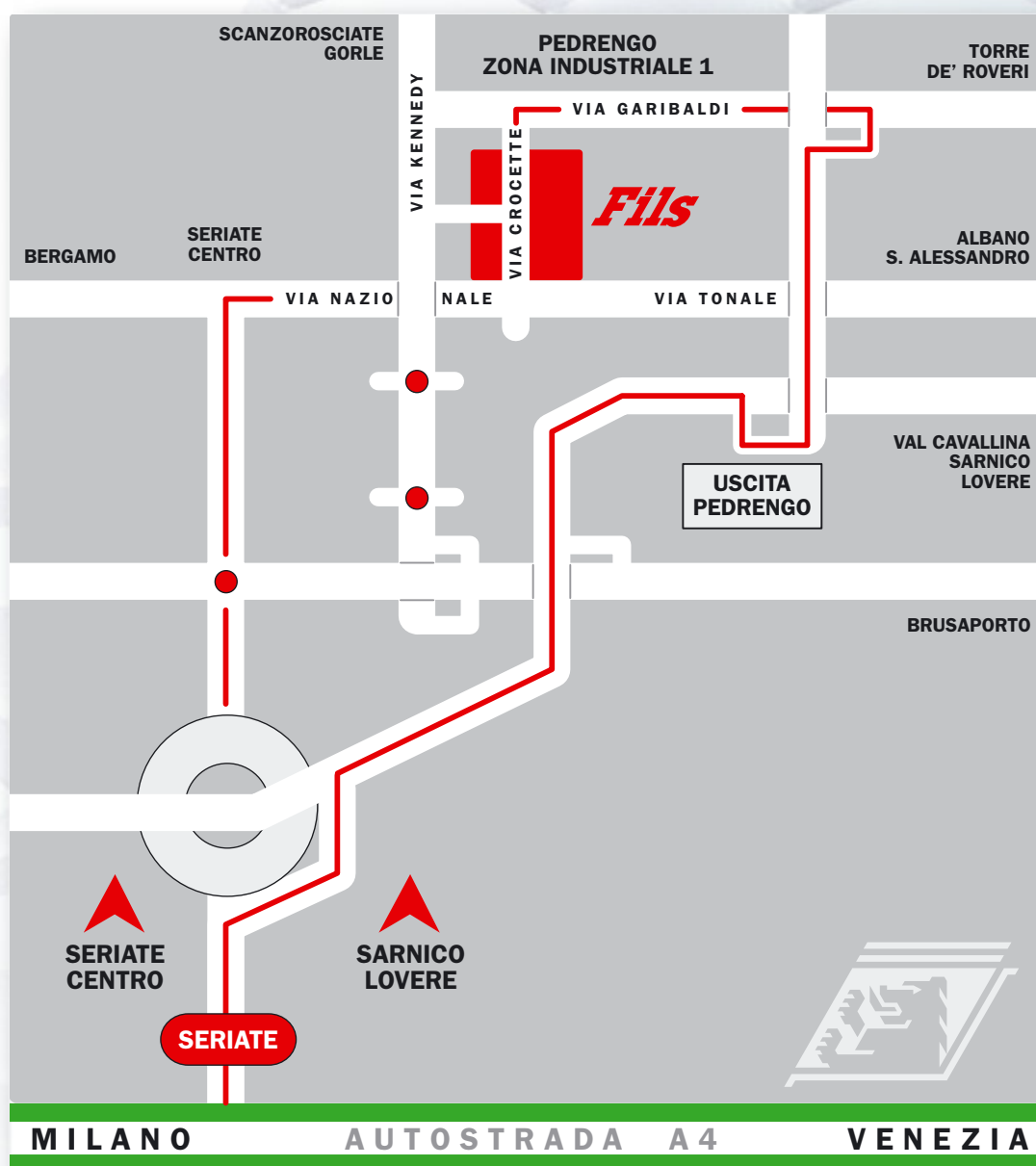
1/2 - COLISEUM - DL 200 x DC 75 (80) - av 24 x sp 2 mm
Hot dip galvanised steel
3/4 - COLISEUM - sp 3 mm
Natural anodised aluminium



FILS S.p.A.

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Via Crocette, 21 (Zona Ind.1)

Tel. 035 661 471
Fax 035 655 875
fils@fils.it





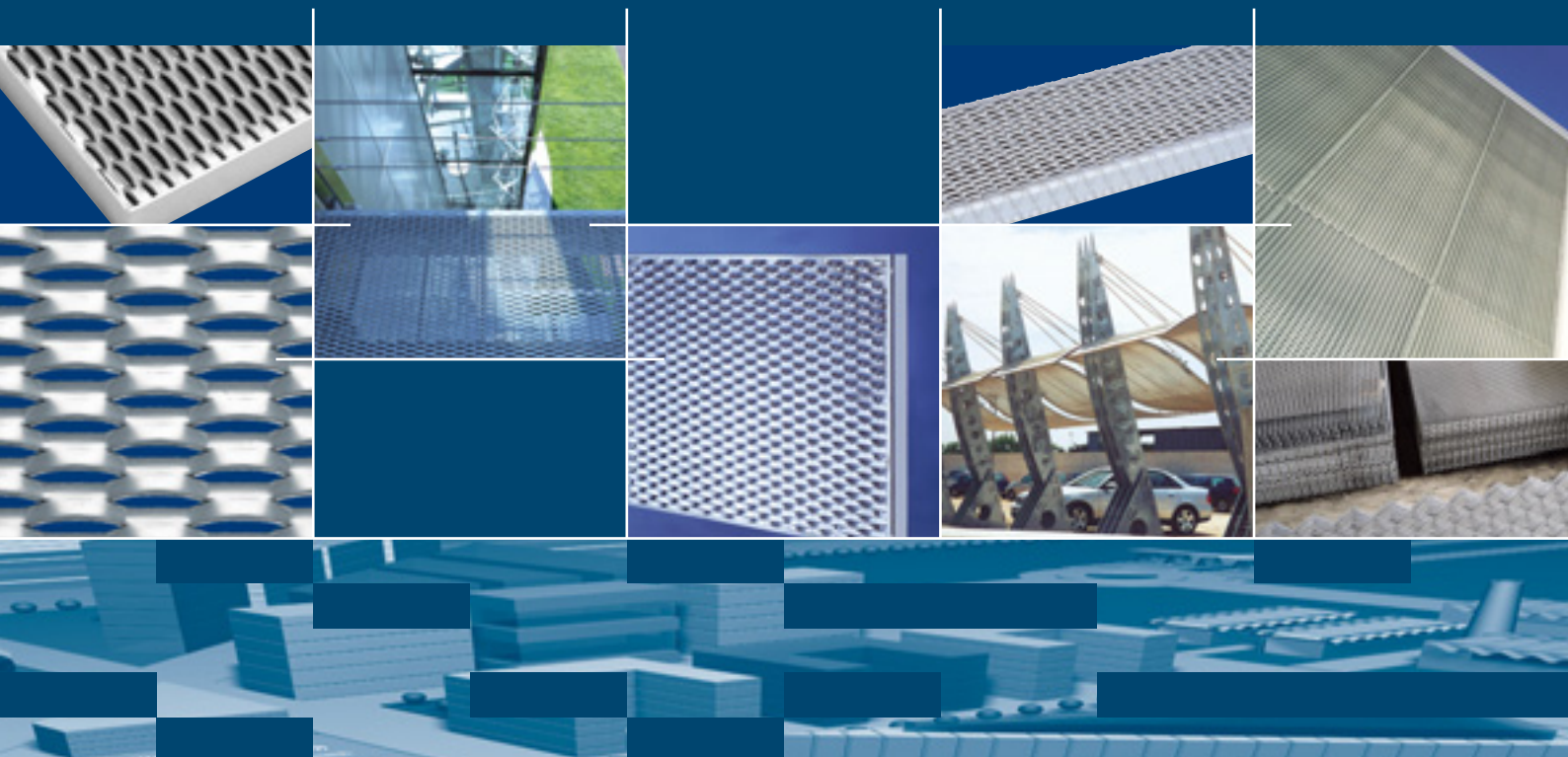
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