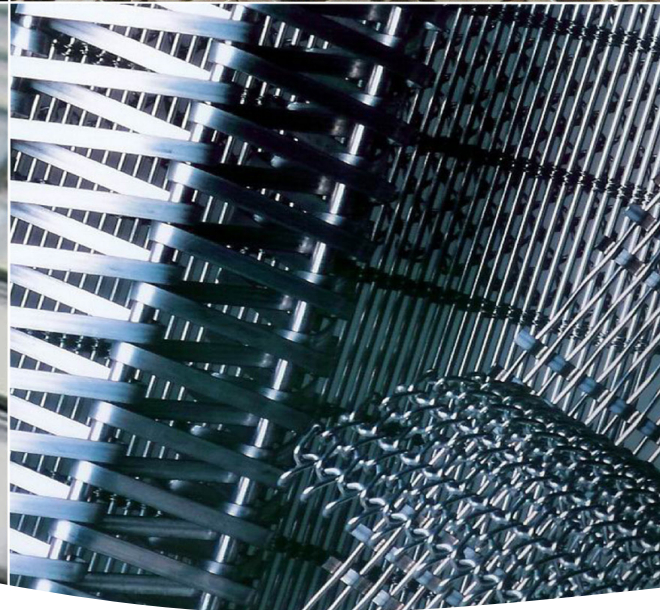
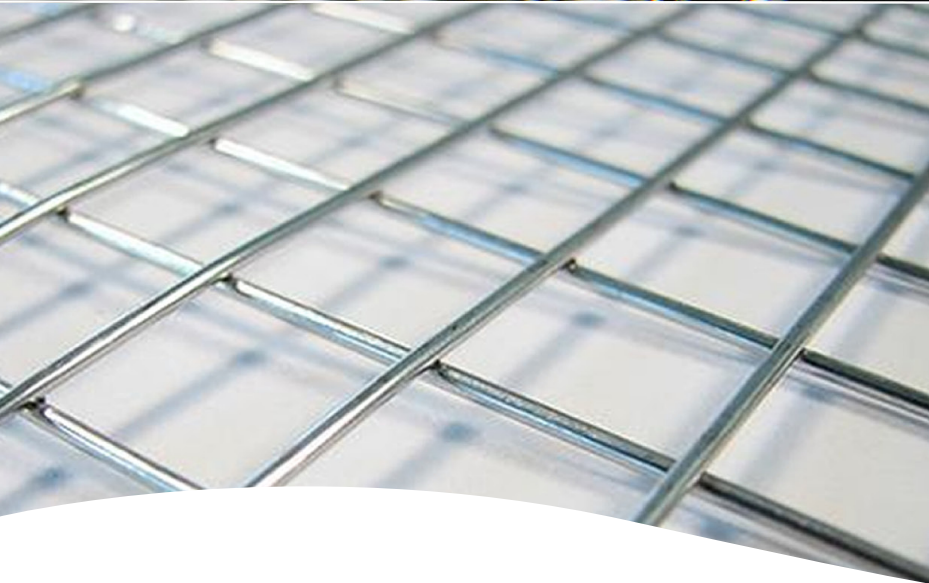
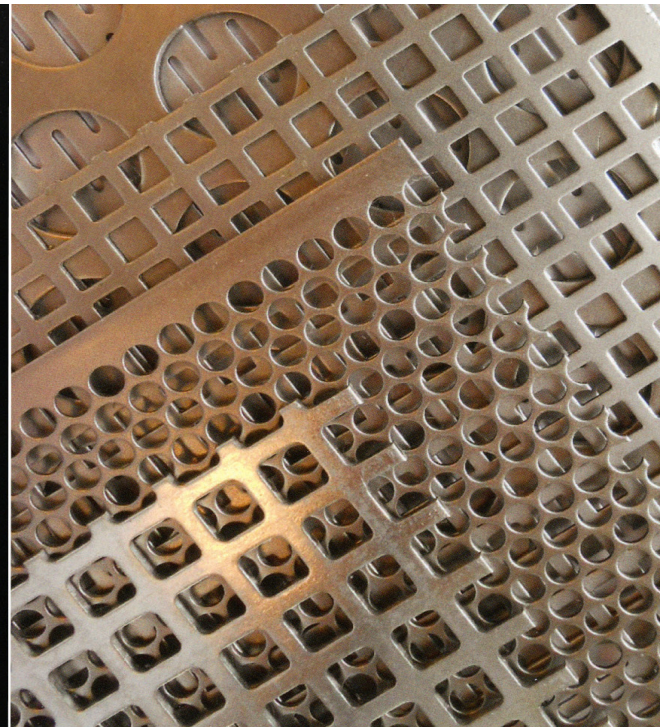
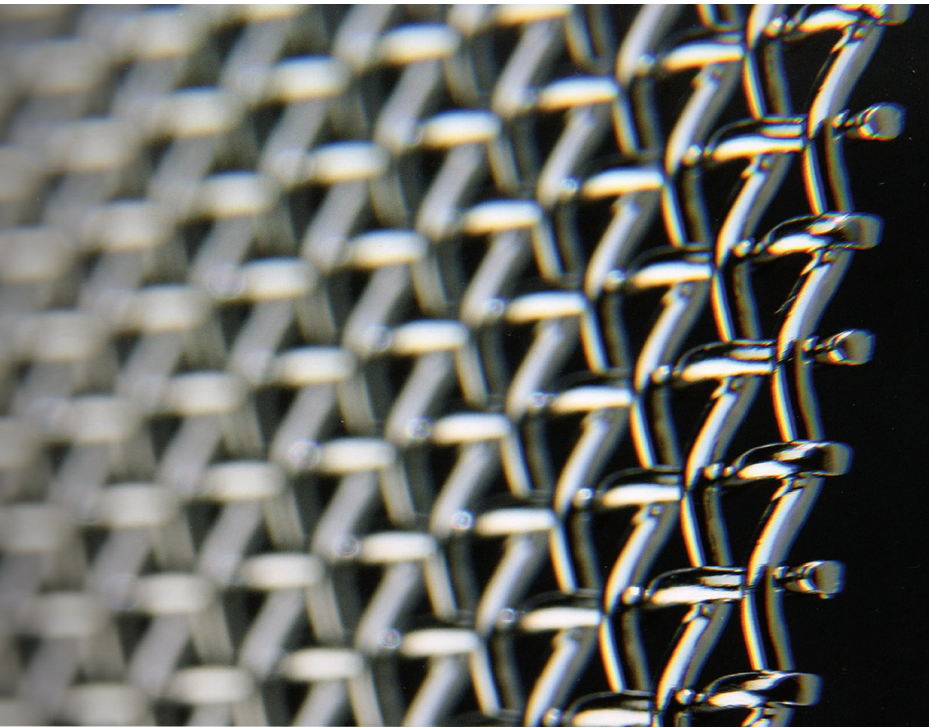


METAL MESH

GENERAL FABRICATION TOLERANCES



S E F A R
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GENERAL FABRICATION TOLERANCES - PERFORATED METAL SHEETS

Visual tolerance

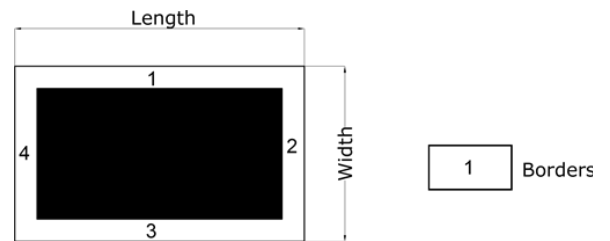
It is not possible to guarantee a completely scratch-free surfaces

Positional Tolerance (Pitch)

Nominal Pitch mm	Average Pitch Tolerance ± mm
35.5 - 160	1.00
14.0 - 35.5	0.45
7.10 - 14	0.25
2.24 - 7.1	0.20
1.25 - 2.24	0.16
1.00 - 1.2	0.12

Dimensional Tolerance (Sheet Size)

Width mm	Length mm	Min. Width Border mm	Minimum Length Border mm
500 ± 3	1000 +25 , -0	mini 0	5 - 10
1000 +25, - 0	2000 +10, -0	5 - 10	Min. 0
1250 +25, - 0	2500 +10, -0	5 - 10	Min. 0
1500 +25 , - 0	3000 +10, -0	5 - 10	mini 0



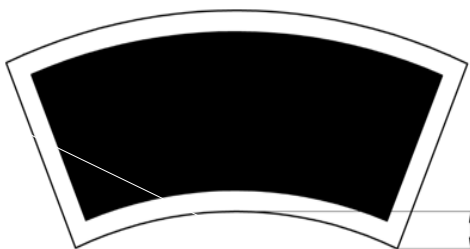
Flatness Tolerance

Width mm	Thickness <5mm With plain margins all round or part plain		Thickness <5mm with symmetrical standard minimal margins	
	Open area <40%	Open area ≥40%	Open area <40%	Open area ≥40%
<1000	15mm	20mm	8mm	15mm
≥1000 - <1500	20mm	30mm	15mm	22mm

Burr tolerances (in mm)

Thickness T Materials	T≤1.6	1.6<T≤2.5	2.5<T≤4	T>4
Aluminium	0.25	0.37	0.54	0.90
Steel	0.14	0.22	0.34	0.50
Stainless Steel	0.09	0.15	0.24	0.38

Cutting tolerance



Min size of cut piece 200x100mm
 Min tolerance +/- 3mm
 Larger items +/- 5mm per m

Squareness tolerance



Tolerances apply both to the length and width of cut pieces

GENERAL FABRICATION TOLERANCES - WOVEN WIRE MESH

Mesh count

Mesh	Warp Direction Tolerance	Weft Direction Tolerance
< 30 Mesh	+/- 2%	+/- 5%
30 Mesh – 200 Mesh	+/- 2%	+/- 5%
>200 Mesh	+/- 3%	+/- 4%

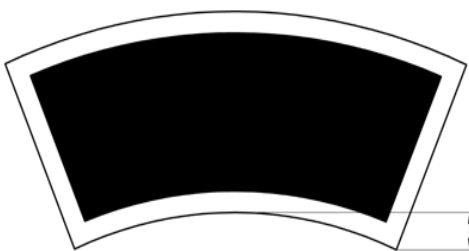
Mild steel wire

Wire diameter (mm)	Tolerance (mm)
11.113mm – 1.829mm	+/- 0.050mm
1.524mm – 0.889mm	+/- 0.025mm
0.813mm – 0.711mm	+/- 0.020mm
0.635mm – 0.508mm	+/- 0.015mm
0.457mm – 0.406mm	+/- 0.013mm
0.381mm – 0.279mm	+/- 0.010mm
0.254mm – 0.152mm	+/- 0.008mm
0.140mm – 0.114mm	+/- 0.005mm

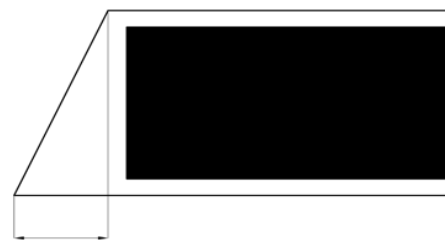
Stainless steel and other wire

Wire diameter (mm)	Tolerance (mm)
11.113mm – 1.600mm	+/- 0.038mm
1.372mm – 1.194mm	+/- 0.025mm
1.041mm – 0.890mm	+/- 0.020mm
0.889mm – 0.814mm	+/- 0.015mm
0.711mm – 0.508mm	+/- 0.013mm
0.457mm – 0.305mm	+/- 0.010mm
0.279mm – 0.203mm	+/- 0.008mm
0.191mm – 0.114mm	+/- 0.005mm

Cutting tolerance



Squareness tolerance



Aperture size	Tolerance per meter
< 1.0 mm	+/- 3mm
> 1.0 mm	+/- Size of Aperture

Mesh Type	Min size of cut Pieces
0.6 - 3 Mesh	500 x 1000 mm
4 - 30 Mesh	200 x 300 mm
40 - 500 Mesh	150 x 200 mm

Tolerances apply both to the length and width of cut pieces

GENERAL FABRICATION TOLERANCES - WELDED WIRE MESH

Wire Tolerances

Aperture size	Warp Direction Tolerance	Weft Direction Tolerance
5 - 25 mm	+/- 2%	+/- 5%
36 - 46 mm	+/- 2%	+/- 5%
50 - 100 mm	+/- 3%	+/- 4%

Squareness tolerance



Cutting Type	Tolerance per meter
Cut to size	+/- 5mm
Cut eliminating sharp fingers	+/- Pitch size (centre to centre of aperture)

Tolerances apply both to the length and width of cut pieces.

Cut Pieces

Mesh Type	Min size of cut Pieces
Welded wire Sheets	500 x 1000 mm
Welded wire Rolls	200 x 300 mm

IMPORTANT for Cut Pieces

In General, welded wire mesh is cut flush against the nearest wire to prevent wire "fingers". This results in Tolerances being +/- the size of the PITCH of the welded wire mesh (dimension from centre to centre of aperture).

Please indicate if you require panels cut to the closest possible size, resulting in sheets with protruding "fingers"

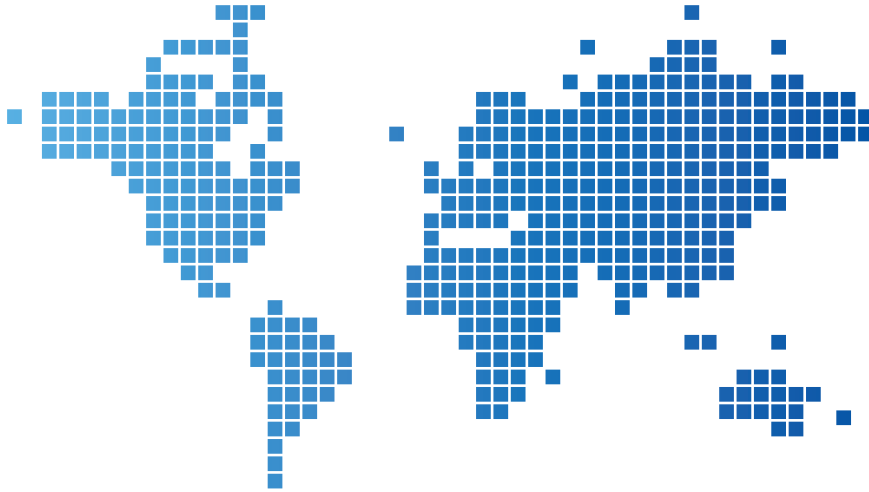
GENERAL FABRICATION TOLERANCES - FLAT WOVEN- & WELDED WIRE MESH

Flat sheets to be made from Roll goods

Rollgoods in woven wire mesh and in Welded Wire mesh are available in rolls of 30m in length. If flat panels, made from Rollgoods, are required, the mesh needs to be put through a Sheet metal roller machine to produce a panel as flat as possible.

Flat panels are then stacked flat onto supporting timber pallets or crates for transport and strapped down.

It is important to know that despite that fact that we take care to produce the best levels of flatness possible, we can not guarantee perfectly flat panels. This is due to the memory function of the steel wire which tend to reverse back to their formed shape (mesh rolled around a core or in rolls). Although the panels might leave our factory flat, they might curve slightly again during transport. This is normal and can not be avoided.



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Sefar is the leading manufacturer of precision fabrics from monofilaments for the screen printing and filtration market. Sefar products are used in a wide variety of industries, reaching from electronics, graphics, medical, automotive, food and pharmaceutical applications to aerospace, mining & refining and architecture. With its profound understanding of the applications Sefar helps its customers to achieve optimum results in their industrial processes. Subsidiaries and fabrications centers in 25 countries on 5 continents provide local technical service for the broad range of solutions offered by Sefar.

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- PM-Tec high temp. filter media
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- Ceramic pleated elements

Our most current general sales conditions shall apply.
Please consult the most current local product data sheet prior to any use.

