

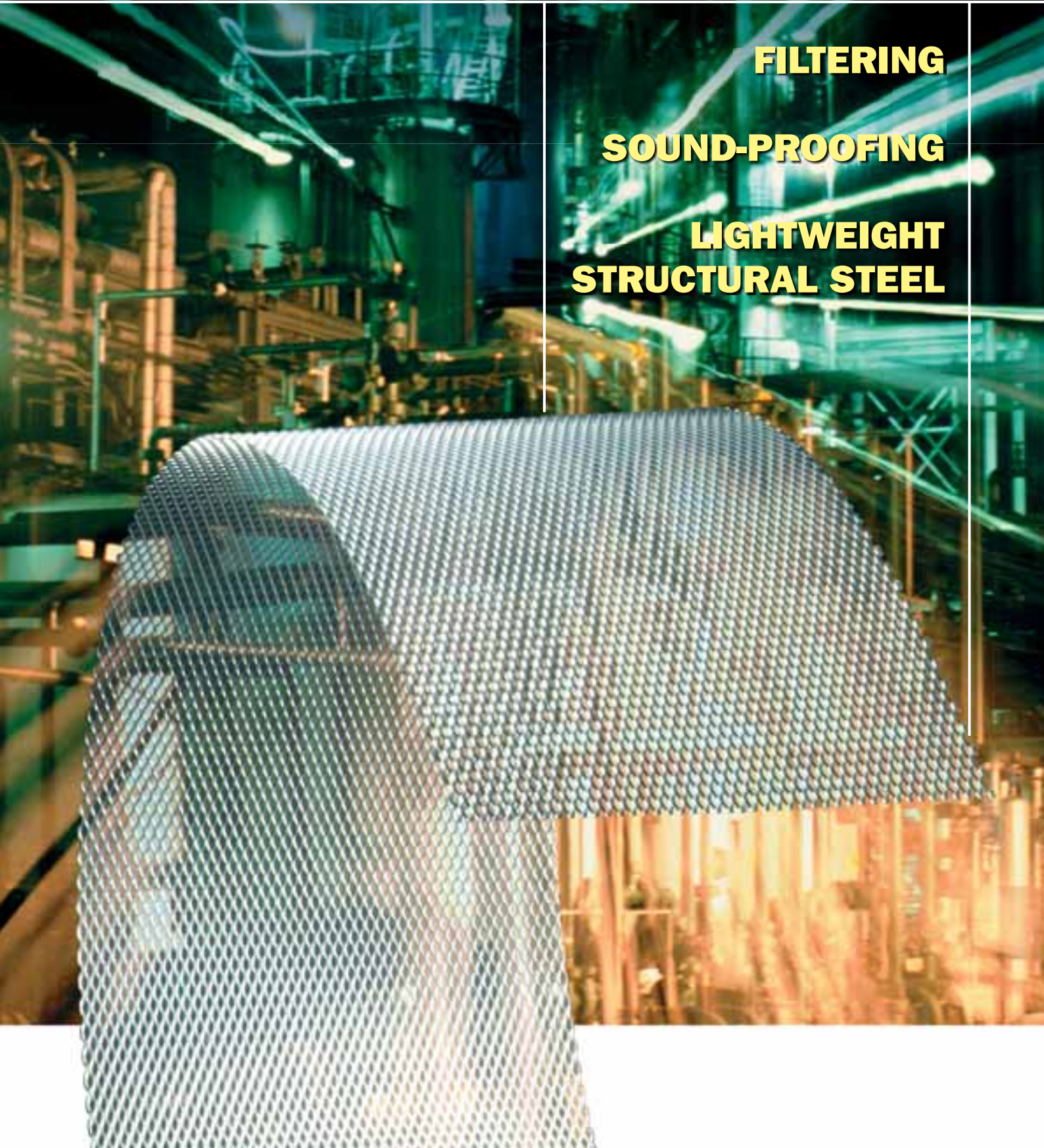
# Industry made-to-measure

The solutions and advantages of Italfim expanded mesh

**FILTERING**

**SOUND-PROOFING**

**LIGHTWEIGHT  
STRUCTURAL STEEL**



# More added value for your company



*guaranteed by Italfim*

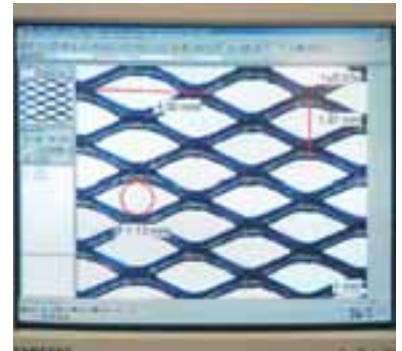


ISO 9001:2000  
Cert. n. 0237



The Italfim brand stands for quality products, guaranteed service, standard and **made-to-measure** solutions. Constantly at your service these past 60 years.

Dimensional control of the apertures in expanded mesh using microscopes and electronic means



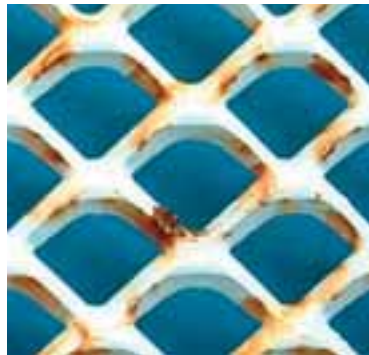
Italfim is a certified trail-blazing producer of **expanded mesh** and **micromesh** for heavy-duty industrial use in all sectors.



Expanded mesh warehouses



Visual inspection of expanded mesh subjected to rust resistance tests in a saline mist.



Degreasing system



Laboratory equipment for checking the aperture percentage in expanded mesh

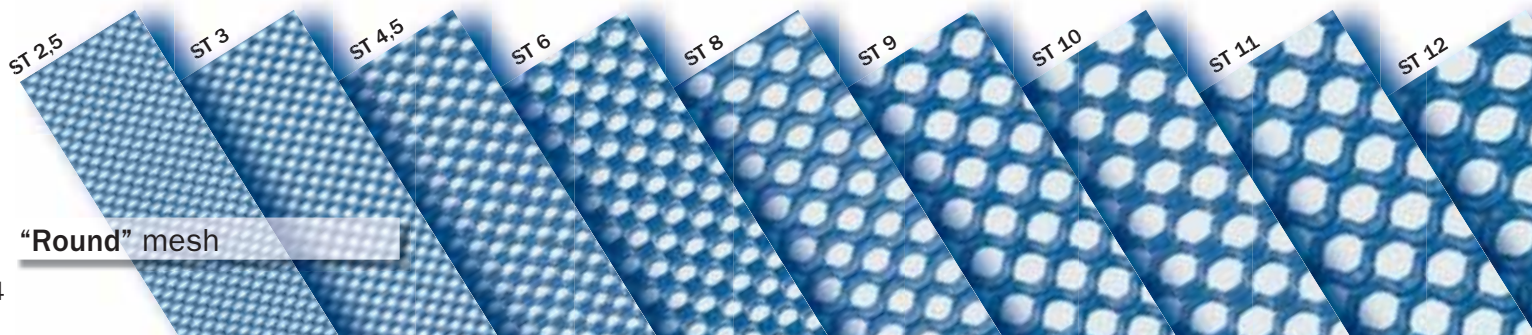
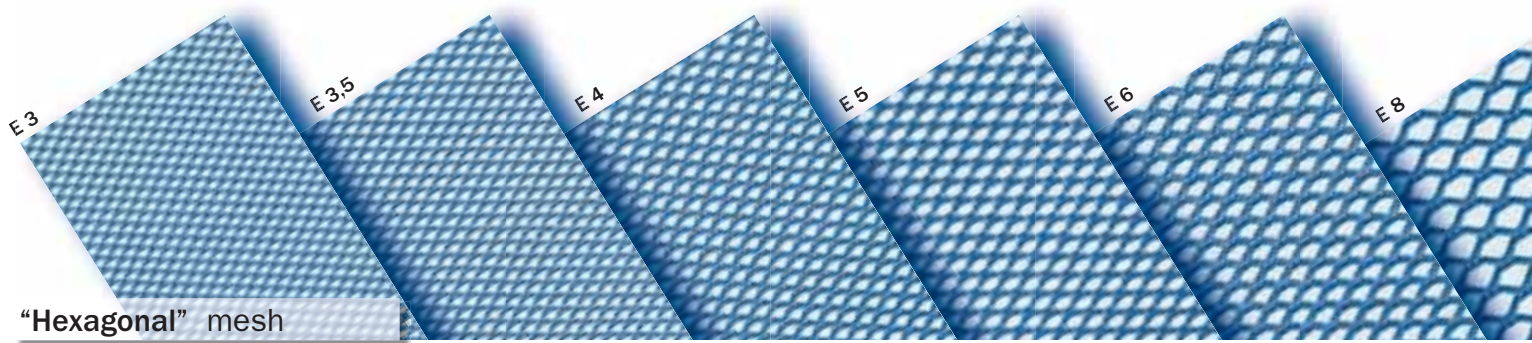
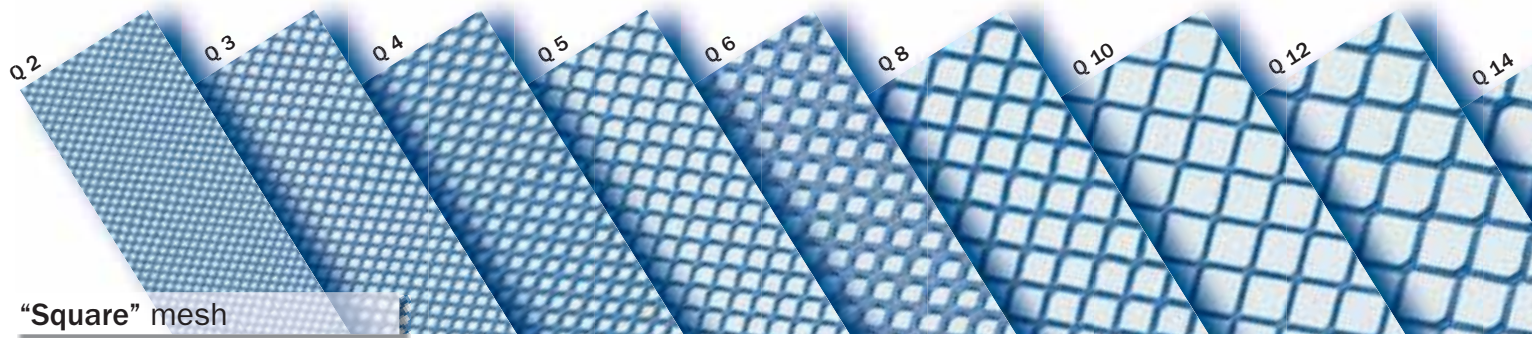
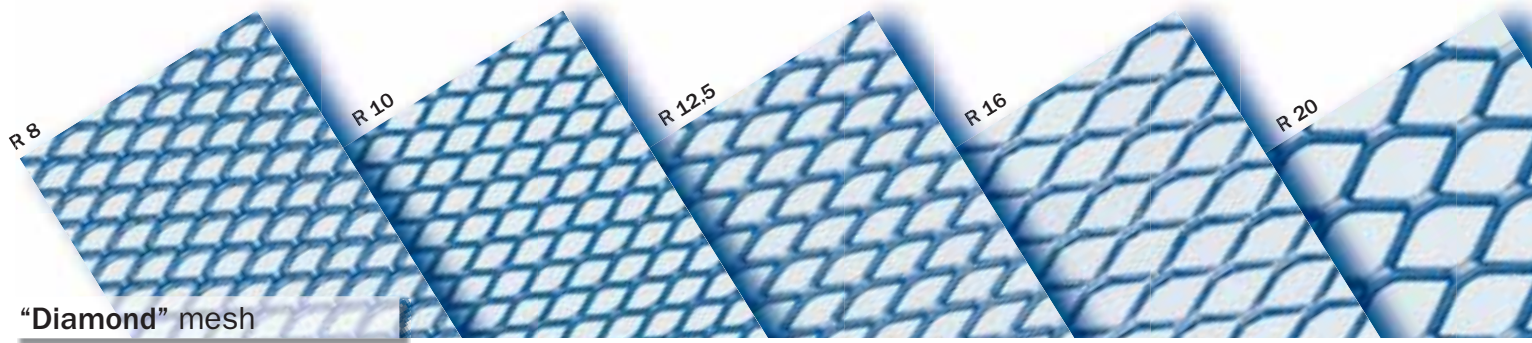
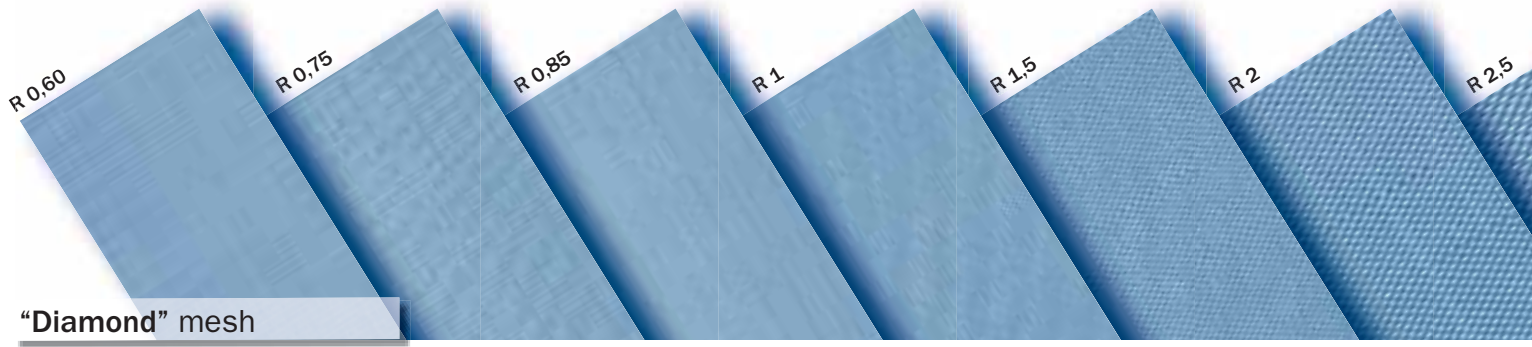


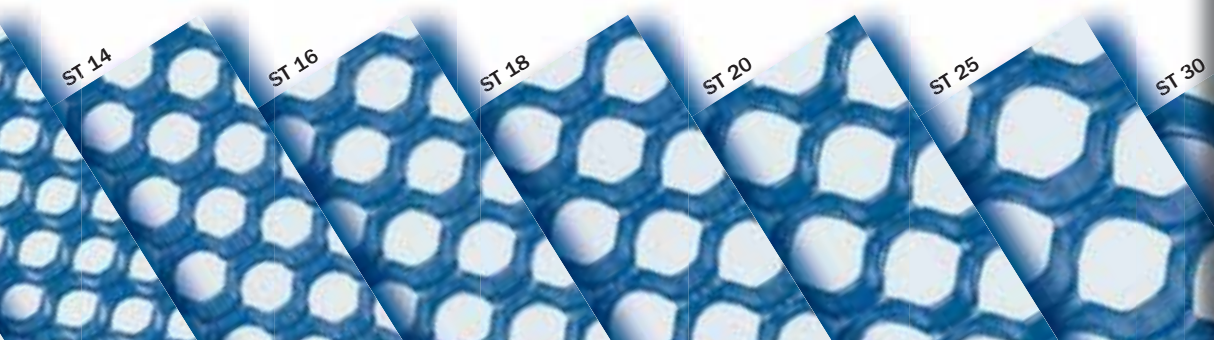
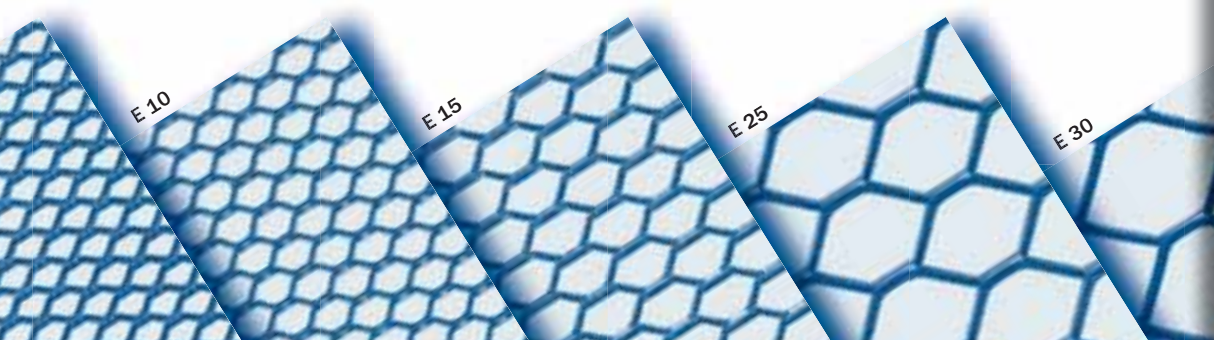
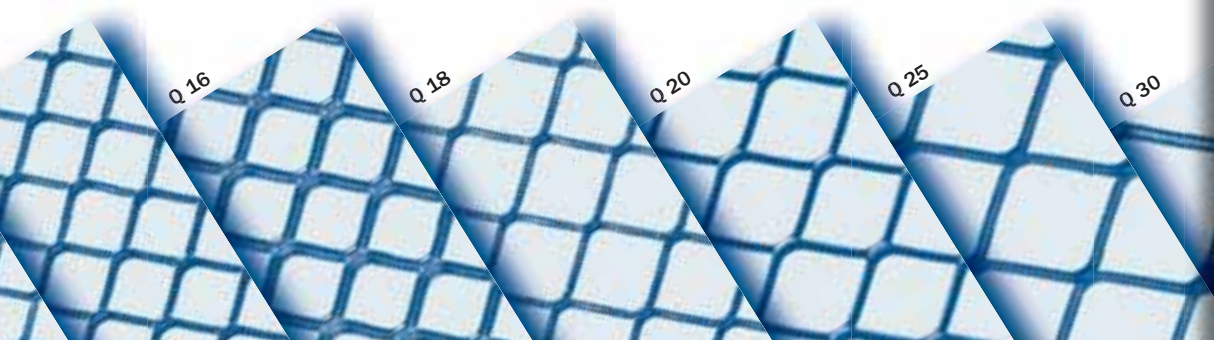
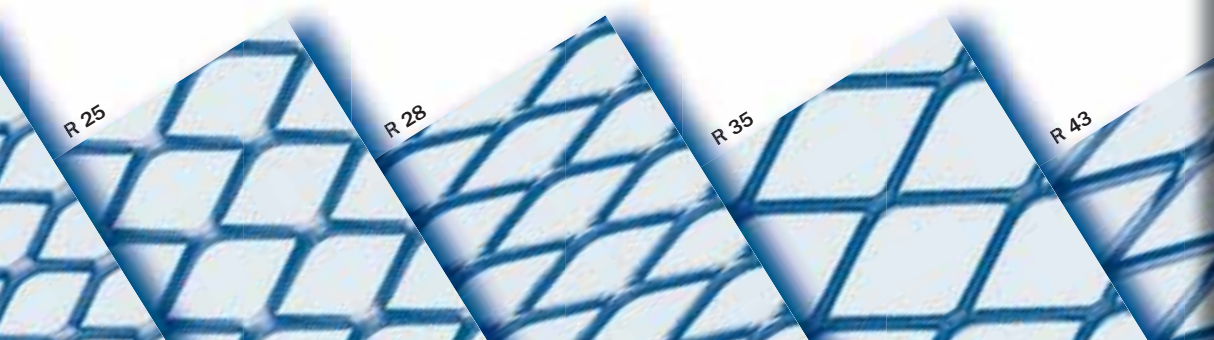
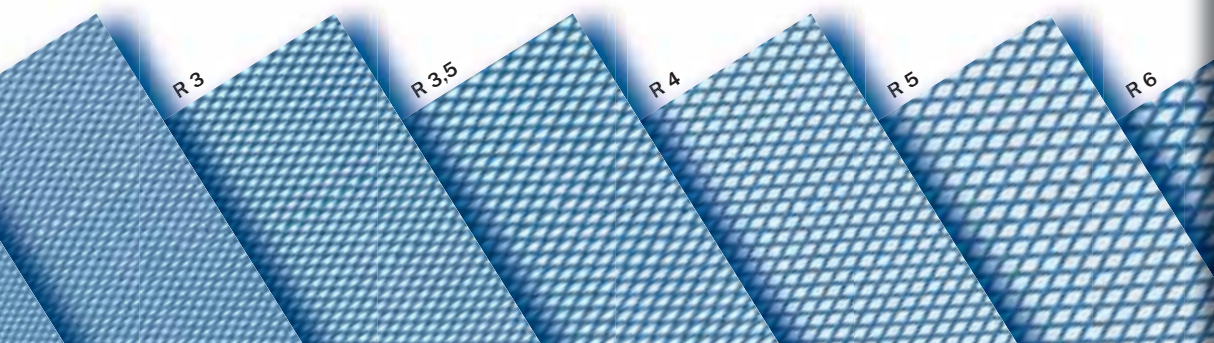
Instrument for electronic detection of the chemical composition of the raw material

An organisation at your service.



# More choices to suit your needs





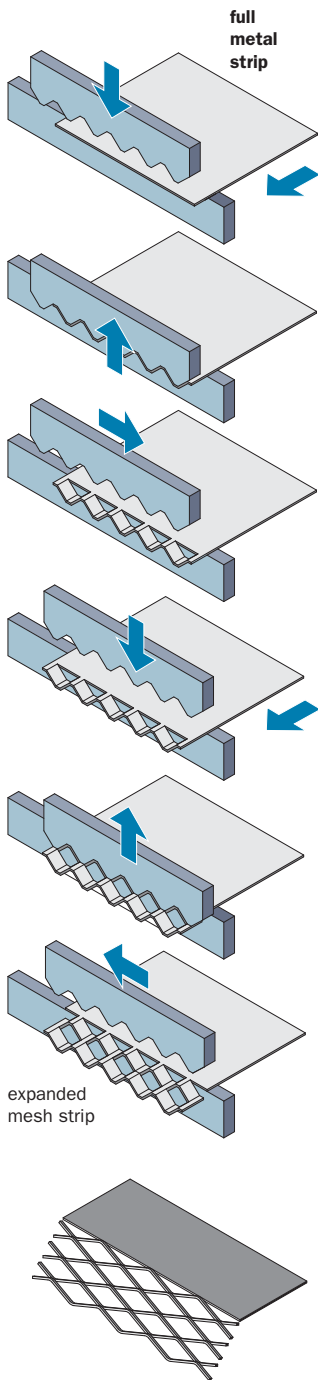
The Italfim range contains thousands of different configurations, letting you choose the most suitable solution to meet your specific needs.

See our general catalogue and contact our experts for further information on materials, strand thickness, strand width and other expanded mesh details.

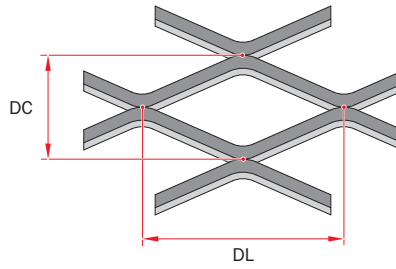
If you have special requirements, don't hesitate to ask for personalised samples.

# More experience in expanded mesh

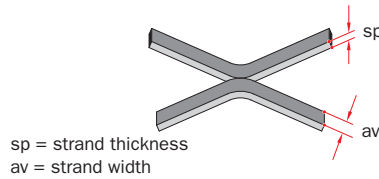
## 1 Expanding the metal



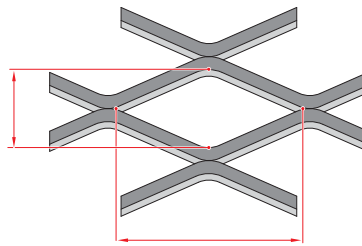
## 2 Mesh dimensions



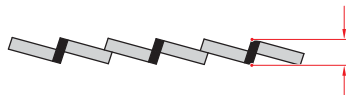
## 3 Mesh section



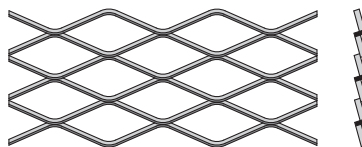
## 4 Mesh/aperture dimensions



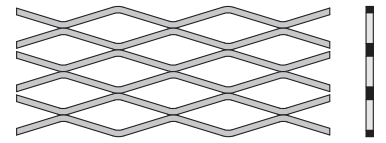
## 5 Final expanded mesh thickness



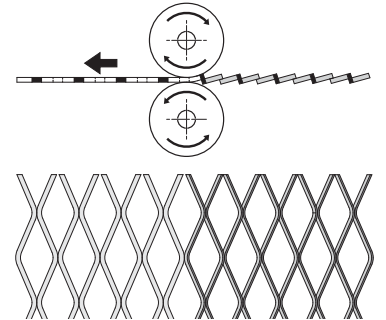
## 6 Expanded mesh, not flattened



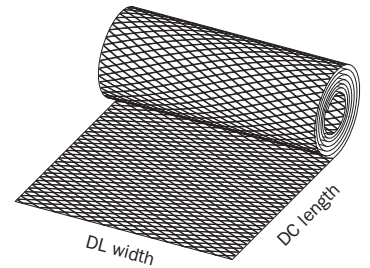
## 7 Expanded flattened mesh



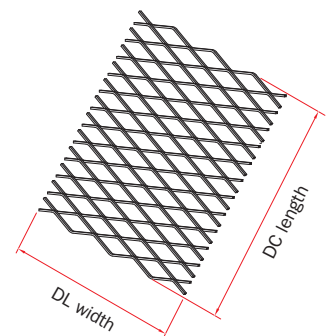
## 8 Flattening diagram



## 9 Roll of expanded mesh



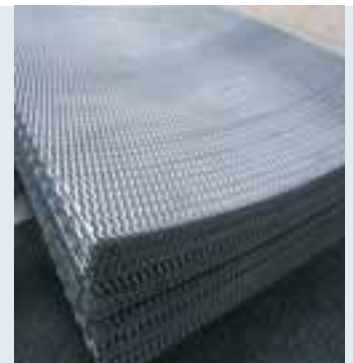
## 10 Sheet/blank dimensions



**Standard:** rolls and sheets in standard commercial thickness and dimensions.

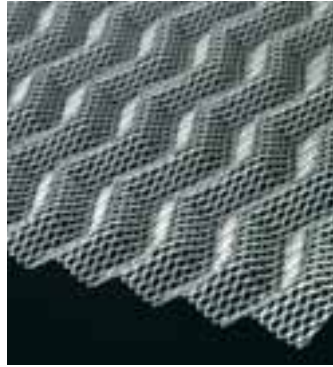
**Upon request, made-to-measure:** rolls and blanks, filters and finished products.

**Mesh made from various materials:** carbon steel, galvanised carbon steel, stainless steel, aluminium, copper, brass, titanium and other materials.

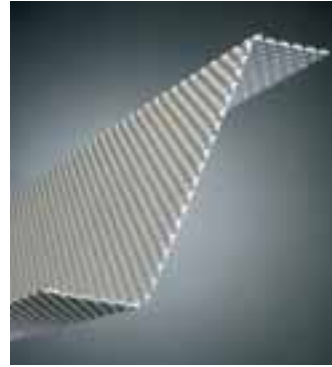




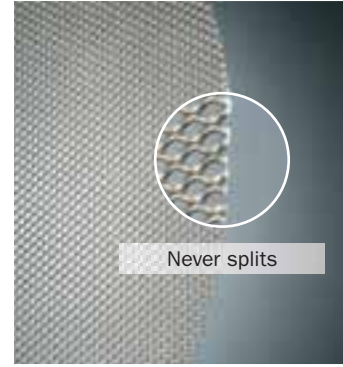
Pleating  
Roulage/soudage



Fretting



Bending



Blanking



Funnelling



**Italfim**  
knows the secrets  
of expanded mesh

Many years of experience in dealing with its customers' requirements (treatment and final products).

From manual crafting to 100% automated processes.

More than 60 years leadership on the international market.

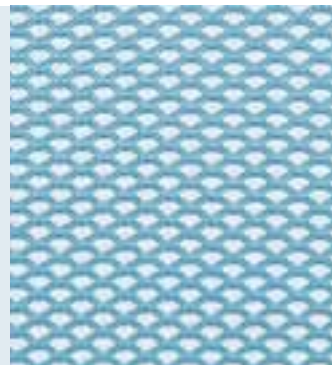
**Ask our experts.**



**E 3**



**E 4**



**E 6**

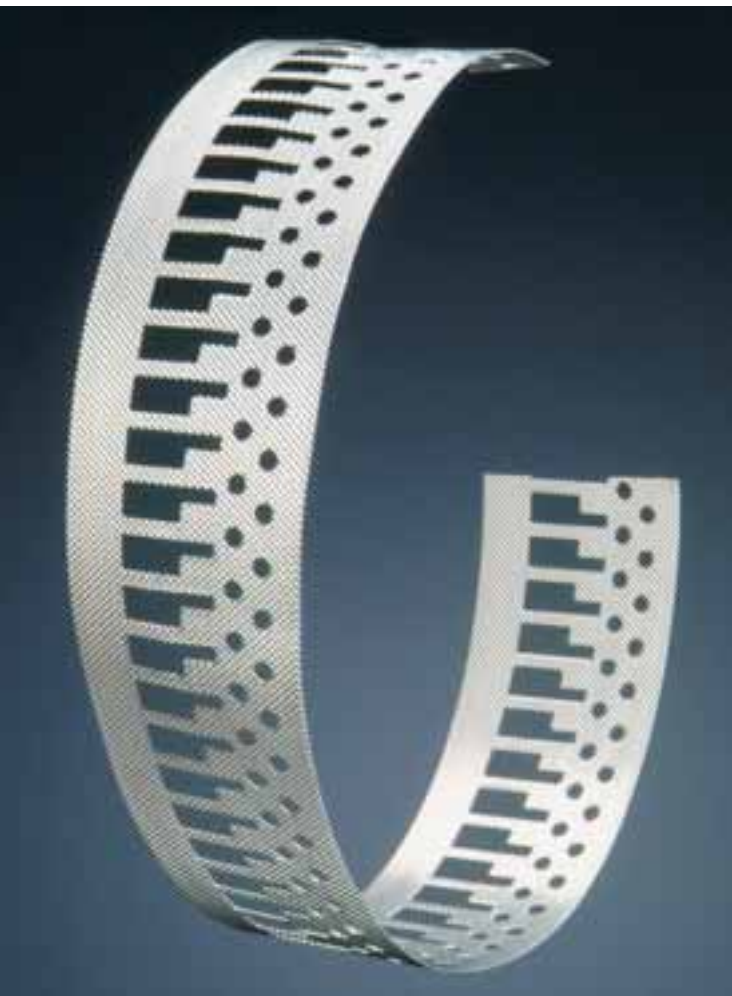


**E 8**

# More specialisation in industrial production



Product development and **made-to-measure** products, with component assemblies and details.



Q 2



Q 5



Q 8



Q 10



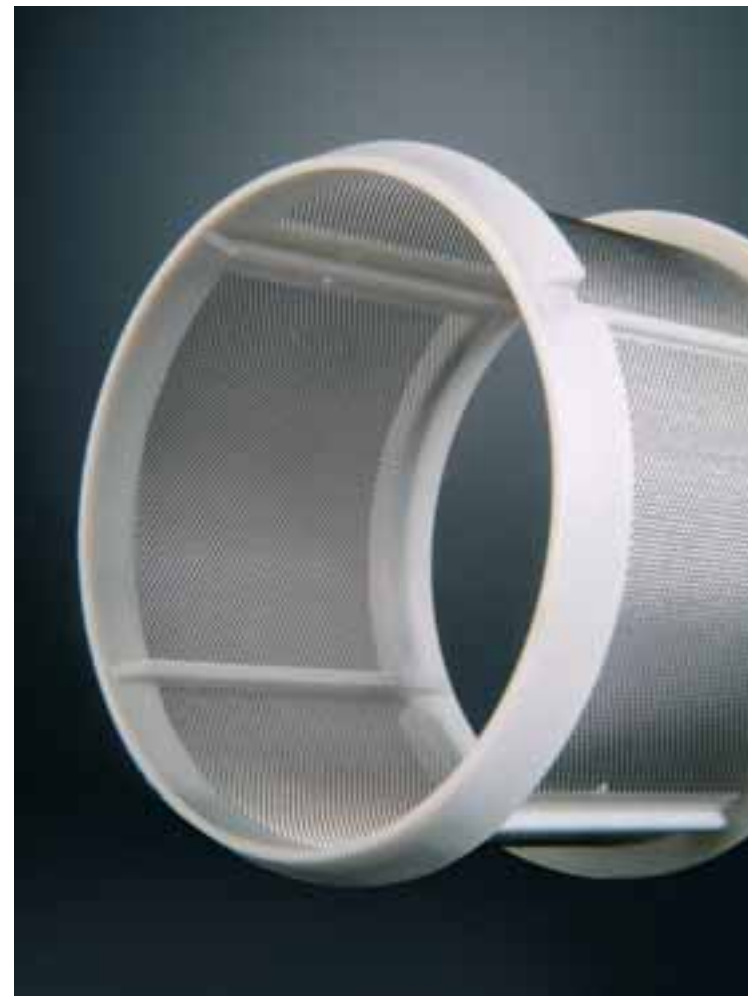


**The ability to offer customised products is one of Italfim's strong points**

Extreme precision throughout the production process; design, prototyping and industrialising.

Hundreds of skilled processes and our highly professional staff guarantee customer satisfaction every time.

**Try us out!**



ST 2,5



ST 3



ST 4,5



ST 6

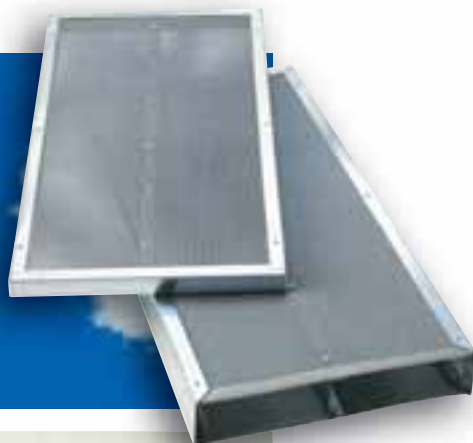
# More solutions to optimise production processes

Italfim expanded mesh is irreplaceable for a myriad applications: air conditioning, water and gas processing, oil and dust filtering, sound diffusion and sound-proofing.





AIR



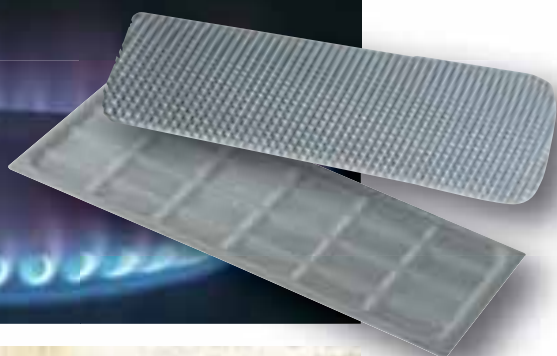
WATER



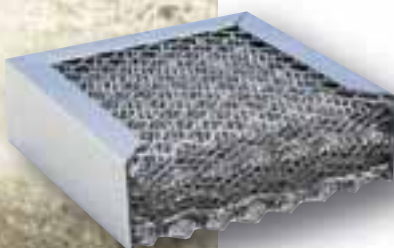
OIL



GAS



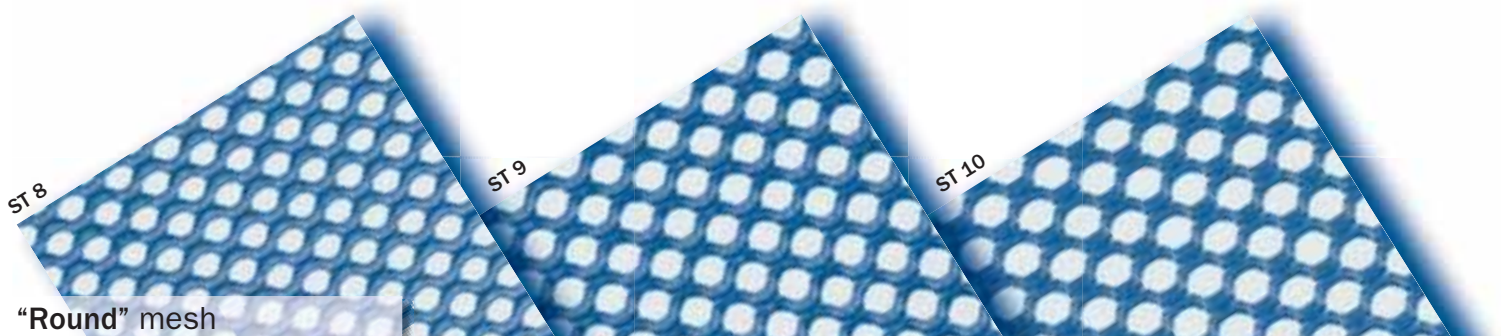
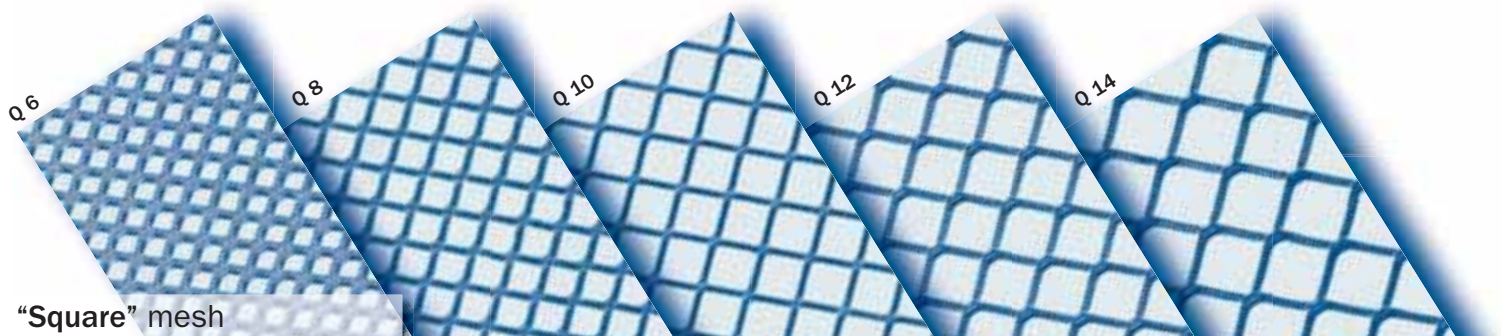
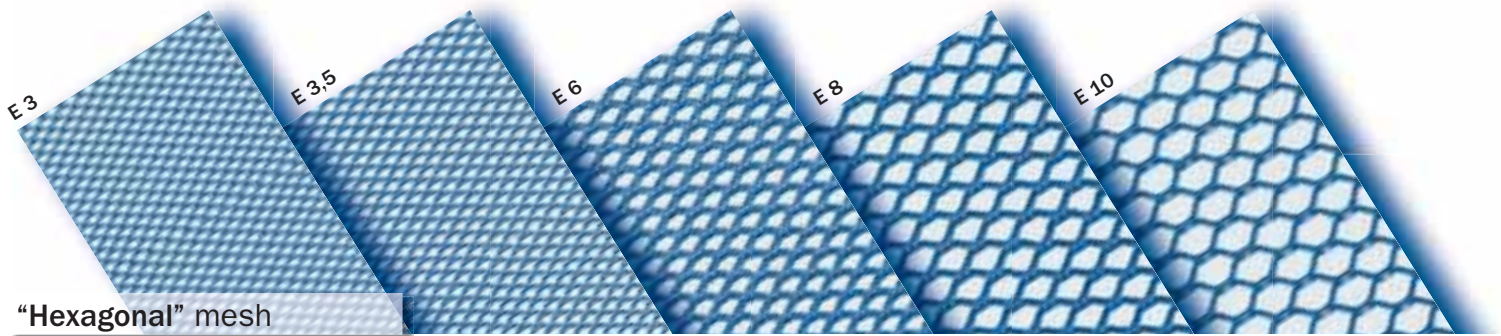
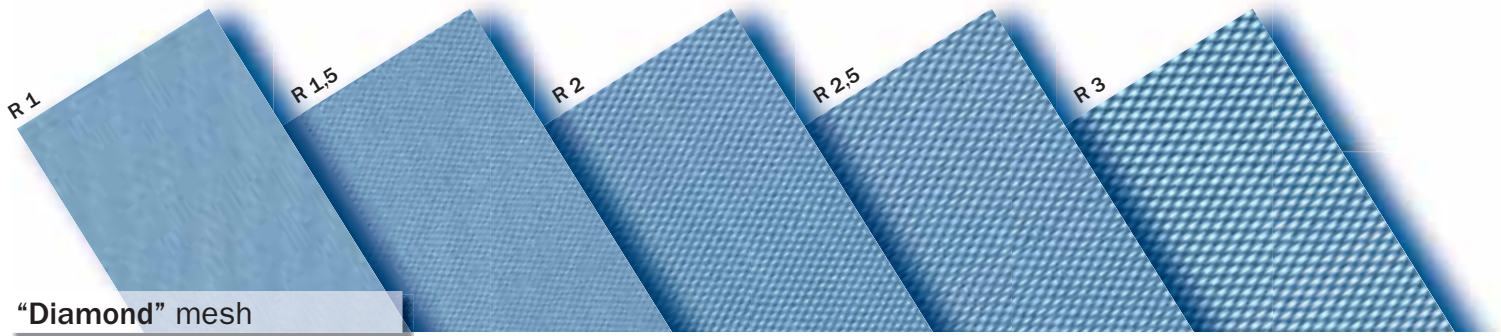
SAND



**Italfim, an industrial concern at the service of industry.**

Thanks to its many years in the business and great professionalism, Italfim supplies **intelligent expanded mesh solutions and components** to optimise production processes in the mechanical engineering, electro-technical and general manufacturing industries

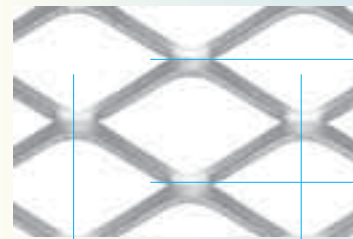
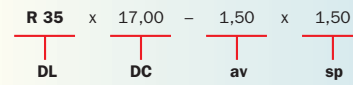
# More assistance for your projects



## Technical data table

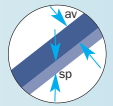
DL mm	CD mm	Strand width St/mm	Strand thickness Sp/mm	Weigh m <sup>2</sup> - kg	side x side	Ø inscribed hole	Maximum width of sheet / coil
<b>R 0,50</b>	0,40	0,16	0,08	0,550		0,08	300
<b>R 0,60</b>	0,50	0,18	0,12	0,600		0,10	500
<b>R 0,65</b>	0,55	0,18	0,12	0,650		0,15	500
<b>R 0,75</b>	0,60	0,20	0,12	0,650		0,20	500
<b>R 0,85</b>	0,65	0,23	0,15	0,700		0,25	500
<b>R 1</b>	0,75	0,27	0,15	0,750		0,30	500
	0,75	0,23	0,20	1,000		0,25	500
<b>R 1,5</b>	1,00	0,35	0,15	0,700		0,40	500 - 1000
	1,00	0,30	0,20	1,000		0,38	500
	1,00	0,30	0,30	1,500		0,35	500
<b>R 2</b>	1,30	0,35	0,15	0,650		0,80	500 - 1000
	1,30	0,35	0,20	0,850		0,78	500 - 1000
	1,30	0,30	0,30	1,100		0,75	500 - 1000
<b>R 2,5</b>	1,50	0,35	0,20	0,750		0,85	500 - 1000
	1,50	0,30	0,30	1,000		0,80	500 - 1000
	1,50	0,30	0,40	1,300		0,70	500
<b>R 3</b>	1,80	0,40	0,30	1,100		0,80	500 - 1000
	1,80	0,40	0,40	1,450		0,75	500 - 1000
	1,80	0,40	0,50	1,800		0,70	500 - 1000
<b>E 3</b>	2,00	0,50	0,40	1,600		1,00	625
	2,00	0,50	0,50	2,000		0,90	625
	2,00	0,50	0,60	2,400		0,80	625
<b>E 3,5</b>	2,30	0,55	0,40	1,550		1,30	625
	2,30	0,55	0,50	1,900		1,20	625
	2,30	0,55	0,60	2,300		1,10	625
<b>E 6</b>	3,50	0,80	0,60	2,100		2,30	1000 - 1250
	3,50	0,80	0,80	2,750		2,20	1000 - 1250
	3,50	0,80	1,00	3,450		2,00	1000 - 1250
<b>E 8</b>	4,70	0,80	0,60	1,900		3,00	1000 - 1250
	4,70	0,80	0,80	2,400		2,90	1000 - 1250
	4,70	0,80	1,00	2,800		2,60	1000 - 1250
<b>E 10</b>	5,00	1,00	0,60	1,900		3,60	1000 - 1250
	5,00	1,00	0,80	2,550		3,40	1000 - 1250
	5,00	1,00	1,00	3,100		3,30	1000 - 1250
<b>Q 6</b>	4,50	0,50	0,500	0,900	3,0 x 3,0		1000 - 1250
	4,50	0,60	0,600	1,300	3,0 x 3,0		1000 - 1250
	4,50	0,80	0,800	2,250	3,0 x 3,0		1000 - 1250
<b>Q 8</b>	6,00	0,60	0,600	0,950	4,0 x 4,0		1000 - 1250
	6,00	0,80	0,800	1,700	4,0 x 4,0		1000 - 1250
	6,00	1,00	1,000	2,650	4,0 x 4,0		1000 - 1250
<b>Q 10</b>	8,00	0,60	0,600	0,700	5,0 x 5,0		1000 - 1250
	8,00	0,80	0,800	1,300	5,0 x 5,0		1000 - 1250
	8,00	1,00	1,000	2,000	5,0 x 5,0		1000 - 1250
<b>Q 12</b>	9,50	0,80	0,800	1,100	6,0 x 6,0		1000 - 1250
	9,50	1,00	1,000	1,700	6,0 x 6,0		1000 - 1250
	9,50	1,50	1,500	3,750	6,0 x 6,0		1000 - 1250
<b>Q 14</b>	11,00	0,80	0,800	0,950	7,0 x 7,0		1000 - 1250 - 1500
	11,00	1,00	1,000	1,450	7,0 x 7,0		1000 - 1250 - 1500
	11,00	1,50	1,500	3,250	7,0 x 7,0		1000 - 1250 - 1500
<b>ST 8</b>		1,50	0,60	2,300		3,00	1000 - 1250 - 1500
		1,50	0,80	2,900		3,00	1000 - 1250 - 1500
		1,50	1,00	3,500		3,00	1000 - 1250 - 1500
<b>ST 9</b>		1,60	0,60	2,200		4,00	1000 - 1250 - 1500
		1,60	0,80	2,900		4,00	1000 - 1250 - 1500
		1,60	1,00	3,500		4,00	1000 - 1250 - 1500
<b>ST 10</b>		1,60	0,60	1,950		5,00	1000 - 1250 - 1500
		1,60	0,80	2,600		5,00	1000 - 1250 - 1500
		1,60	1,00	3,300		5,00	1000 - 1250 - 1500

### Mesh identification

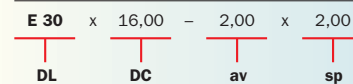


### DIAMOND

**Key**  
**R** = Pitch = DL  
**DL** = Long way  
**DC** = Short way  
**av** = Strand width  
**sp** = Strand thickness



### Mesh identification

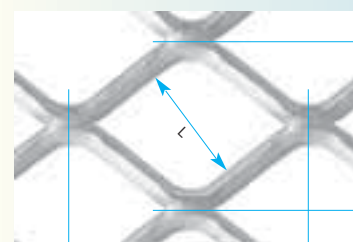
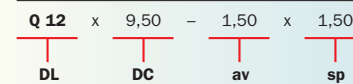


### HEXAGONAL

**Key**  
**E** = Hexagonal = DL  
**DL** = Long way  
**DC** = Short way  
**av** = Strand width  
**sp** = Strand thickness

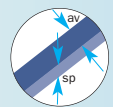


### Mesh identification

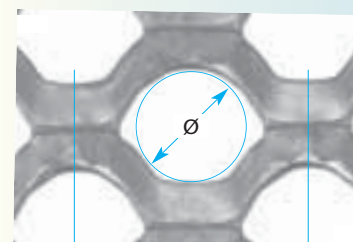
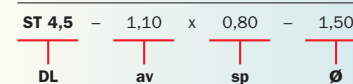


### SQUARE

**Key**  
**Q** = Square = DL  
**DL** = Long way  
**DC** = Short way  
**av** = Strand width  
**sp** = Strand thickness  
**L** = Side



### Mesh identification



### ROUND

**Key**  
**ST** = DL  
**av** = Strand width  
**sp** = Strand thickness  
**Ø** = Hole diameter



Selection of apertures for industrial sectors, coming in a wide range of: materials, aperture lines, DL x DC, strand thickness and widths

# More dependability



The creation of filtering elements for heavy-duty applications calls for expertise, a good knowledge of which materials to use and **great professionalism** in the actual production process.

## FILTERING



Water filters



Special assemblies



Choose dependability.  
Your ideas are  
in safe hands.



Tubular filters



Assorted filters

Italfim delivers  
finished  
products exactly  
**as you have  
conceived** and  
designed them.

Every detail  
is perfectly  
produced.



Assemblies with plastic and stainless steel components



More flexibility



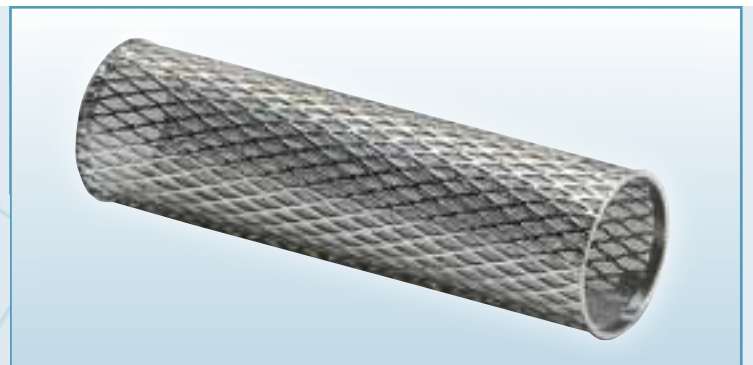
# FILTERING



Cylindrical filters with internal elements



Shaped filters





**Italfim service**  
to simplify, optimise  
and speed up  
your production  
cycles.



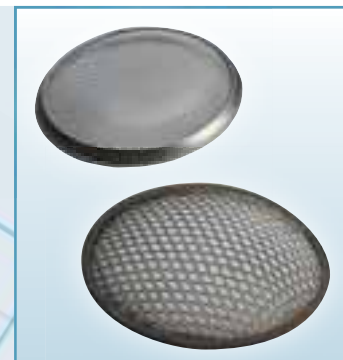
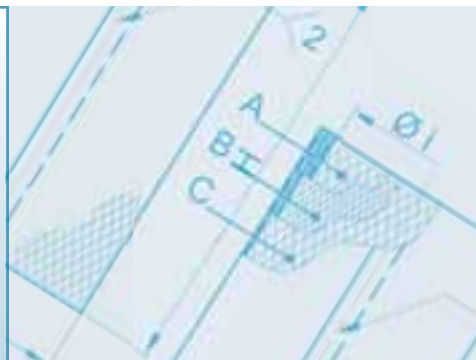
Special details



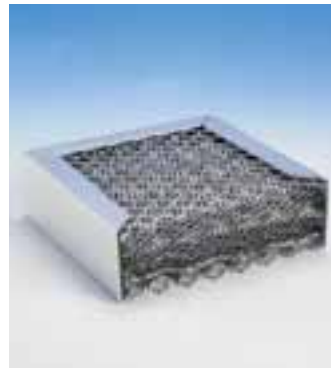
Stamped filters

We all know  
businesses  
constantly need  
new products.

Italfim meets  
this need thanks  
to its **flexibility**  
and its **know-  
how**, even in the  
case of small  
production runs.



More modularity



Assembled **multilayer composite** panels, with edges and accessories.

FILTERING



Small pleated, fretted and corrugated meshes - Mesh filter panels for industrial hoods - Convector

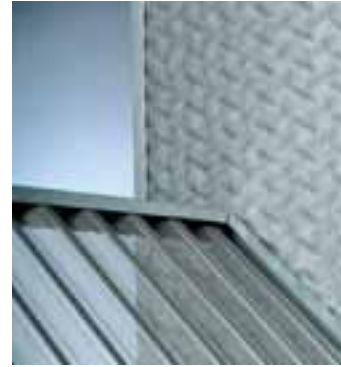
**Labyrinth panels for stainless steel hoods** for ultra-efficient filtering. Standard sizes and special made-to-measure solutions available upon request.



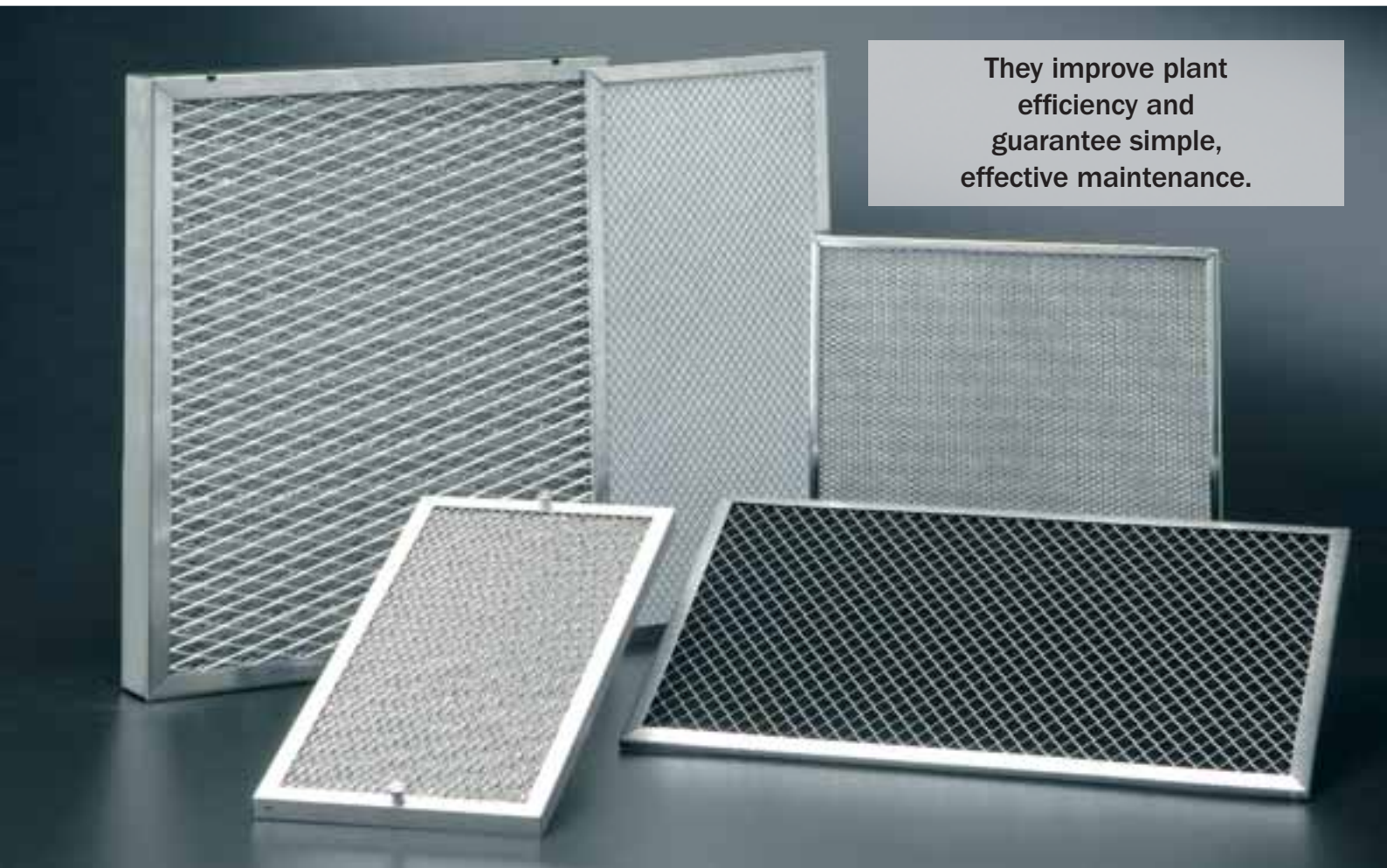
Folded-under edges for safe handling



Not only cylinders:  
Italfim  
is also an expert in  
flat expanded  
mesh filters and  
panels.

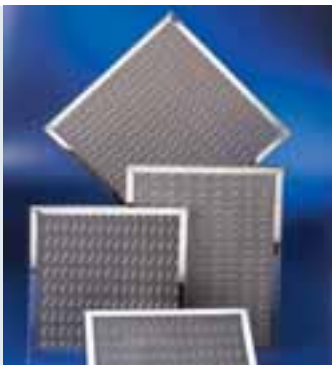


Finish details

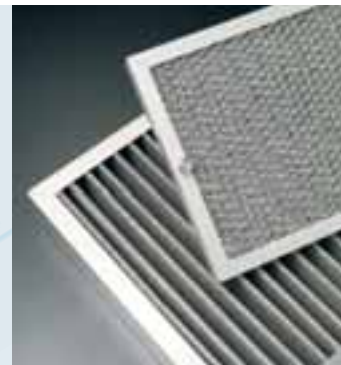


They improve plant  
efficiency and  
guarantee simple,  
effective maintenance.

Filters and filtering panels



**Expanded mesh filtering panels** compliant with  
DIN 31000 accident prevention standards.  
Made from stainless steel: the ideal hygienic  
material, as proved by local health authority  
technical specifications.  
Standard sizes and special made-to-measure  
solutions available upon request.



# More functionality

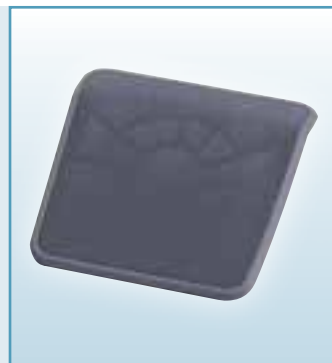


Expanded mesh is suitable for applications where the passage of sound waves needs to be guaranteed, e.g. protection for loudspeakers.

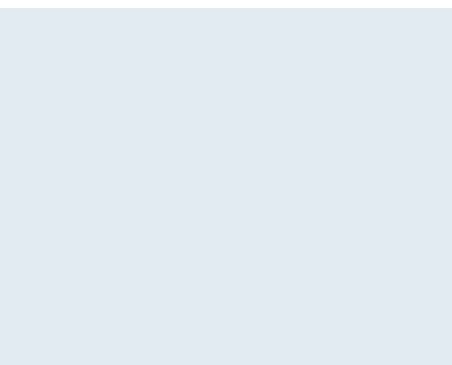
## SOUND DIFFUSION



Special shapes for the automotive industry – Amplifier guards



Made-to-measure  
**sound-proofing panels**  
for noise reduction  
cabs and dividing walls.

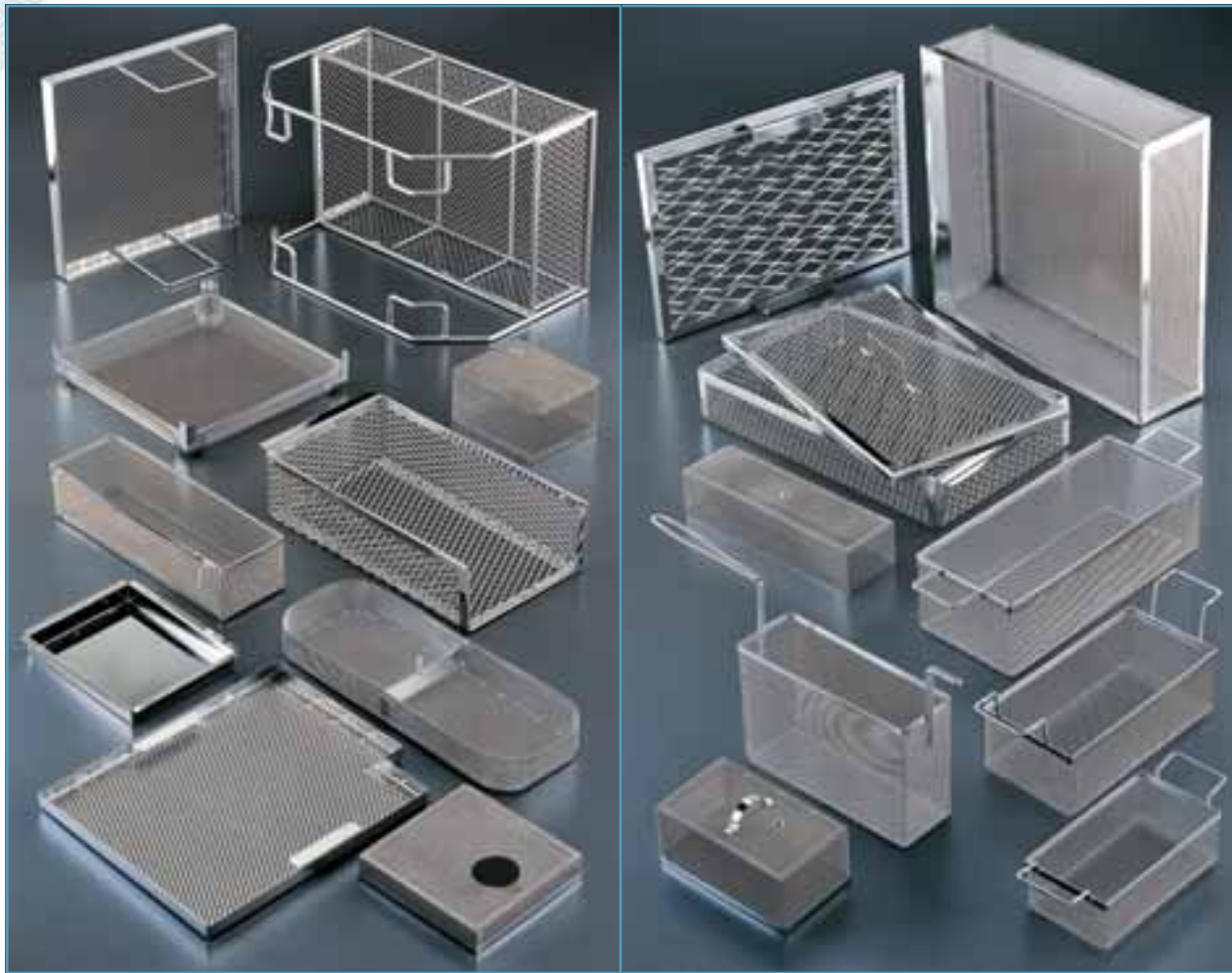


*More accuracy*

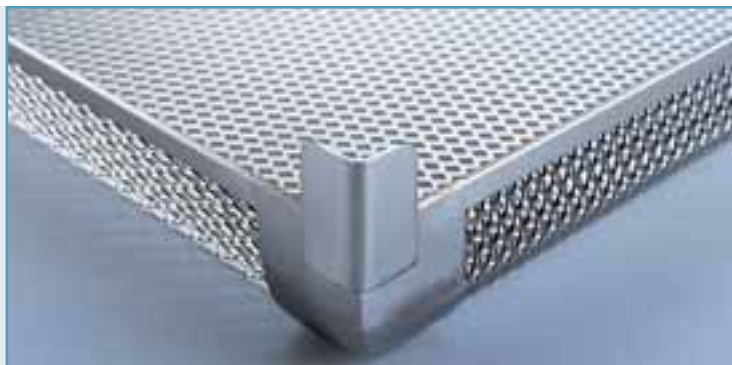


The specific expertise found in each Italfim division offers a sure guarantee of the quality of our workmanship and the precision of each and every order we deliver, **no matter how complex.**

LIGHTWEIGHT  
STRUCTURAL STEEL



Multipurpose containers



Accurate details.



Cylindrical baskets

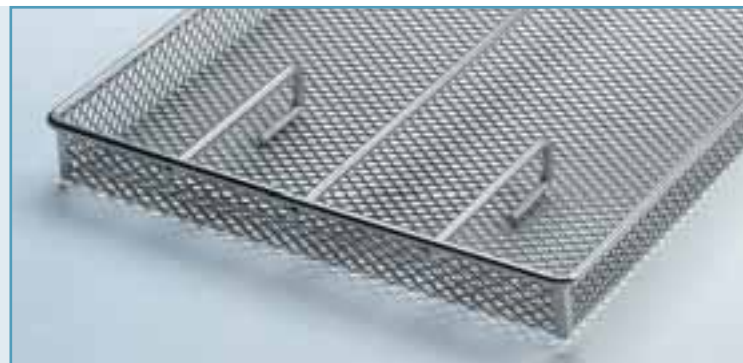


Special products,  
even in **small quantities.**

Baskets with special accessories



Application  
of completing  
accessories.

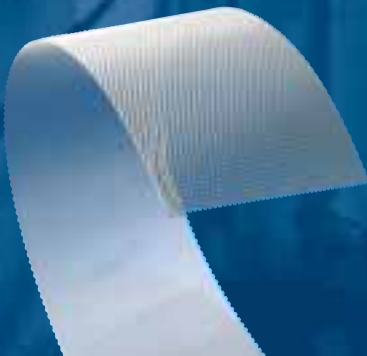
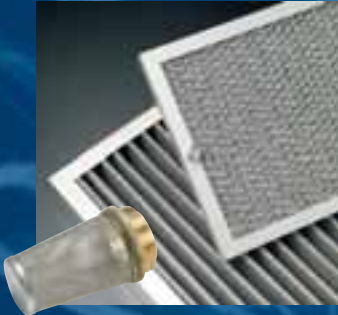




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*To know more*  
**Contact us for further info,  
 documents and catalogues.**

**Our experts are  
 at your full disposal.**



**General Italfim Catalogue**

*Expanded mesh is the future!*