

METAL

Since 1938

SJMETAL
DISTENDIDO, LDA.



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RELIABILITY AT ALL LEVELS.

Our company has been operating in Portugal since 1938. This accrued expertise and resilience has taught us how to seize opportunities for over eight decades. We remain faithful to what has made us grow: investment, planning and development, always with humility and perseverance. We learn from everyone: suppliers, customers and employees; always listening to them in order to progress. Currently, we have three production facilities and a distribution warehouse. Our heartfelt thanks to everyone who has helped us in this journey.



1938

Opening of the first production facility in Campo Grande, nº 8, in Lisbon, with the innovative manufacture of expanded metal, by Mr. Amadeu Melim.

1940

Start of the locksmithing activity and manufacture of “Tranca Portas Portugêses” (Portuguese patented locks).

1950

Start of our chromium-plating and nickel-plating processes.

1960

Mass export to the then overseas Portuguese colonies.

1987

Relocation to Abóboda, Cascais.

1993

Acquisition by the Santos Júlio family of all the share capital - followed by a restructuring process.

1996

Delivery of the first of several state-of-the-art presses for the manufacture of expanded metal.

1999

Opening of the northern Portugal branch in Ribeirão, Vila Nova Famalicão.

2007

Investment in laser and waterjet cutting equipment.

2010

Investment in modern sheet perforation equipment.

2014

Relocation to a larger and more modern building, within the same town.

2018

Split-off. Start of the independent activity of LASINDUSTRIA and EXMET.

2020

Acquisition of the largest and most powerful expanded metal press in the Iberian Peninsula, with manufacture up to 8mm iron.



> TECHNICAL SPECIFICATIONS

EFFICIENCY: Heat, magnetic flux and electricity can flow naturally, as there is a continuous material connectivity. The peculiar shading capacity is remarkable compared to other materials.

STRENGTH: Our products become very resistant because it is formed by continuous sheets.

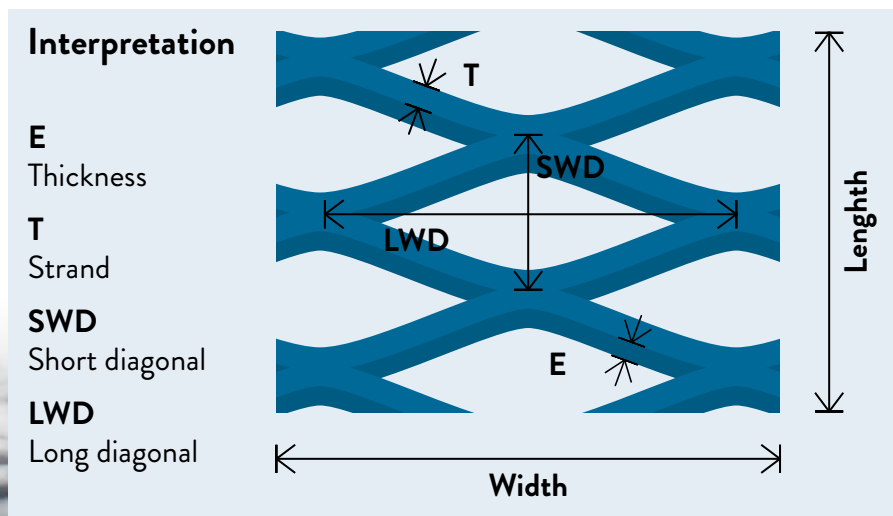
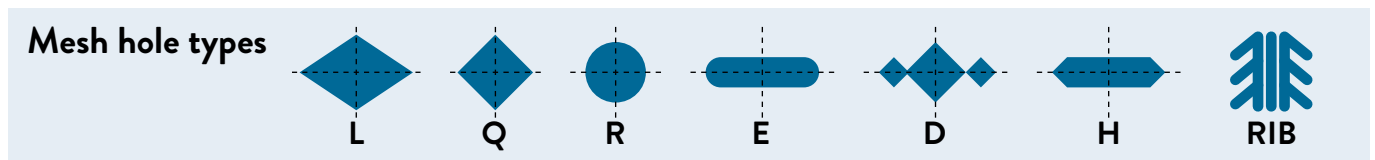
NO TEARING: Our mesh axis withstands higher pressures than welds or fittings, as it is a very compact product.

AESTHETICS: Given the variety of meshes, colours, designs and materials, fantastic results can be obtained. The three-dimensionality of our perforated sheets gives it a much richer and more sophisticated image.

ANTI-SKIDDING MATERIAL: The edges obtained by the intrinsic production of the material gives it natural and enhanced anti-skid features

MINIMUM WASTE: Since it is an “expanded” material and not perforated, there are no metal scrap. Therefore, the cost-benefit ratio is unbeatable.

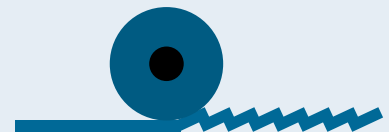
MISCELLANEOUS MATERIALS: Literally, everything can be expanded, except stone and glass.



Open rate

$$100 - \frac{100}{\frac{\text{SWD}}{2 \times T}} = \% \text{ AA}$$

Metal can be laminated upon request



> TECHNICAL CHART

MILD STEEL

Usage	Reference	Mesh (mm)	Thickness x Strand wid. (mm)	Kg/m ²	Open rate (%)	Comm. shapes width x length (m)
Fireplaces and recuperators	L12T0515	12x6	0,5x1,5	2	50	1x4
Decoration, guardrails and grids	L10T1010	10x6	1x1	2,3	60	1x6,5
	E22T1025	22x3	1x2,5	5,3	33	1x3
Walkways	E25T2040	25x5	2x4	12	46	1x2,5
	E25T3040	25x5	3x4	18	45	1x2
	H28T2040	28x12	2x4	7,5	24	1x2
	H28T3040	28x12	3x4	11	23	1x2
Renovation	L20T0515	20x8	0,5x1,5	1,4	63	1x5,5
	L20T1015	20x8	1x1,5	3	63	1x5,5
	L28T1015	28x12	1x1,5	2	75	1x8
	L28T1020	28x12	1x2	2,7	67	1x6
False ceilings	L28T1520	28x12	1,5x2	4,1	67	1x6
	L40T1010	40x16	1x1	0,9	88	1x17,5
	L40T1020	40x16	1x2	1,9	75	1x8,5
Guardrails, grids and false ceilings	L40T1030	40x16	1x3	2,6	63	1x6
	L40T2030	40x16	2x3	5,3	63	1x6 1x2
Renovation	L62T1515	62x25	1,5x1,5	1,53	87	1x15,5
	L62T2025	62x23	2x2,5	2,9	78	1x11
Guardrails and grids	L62T3030	62x23	3x3	6	74	1x8
Walkways	L62T3040	62x23	3x4	8	65	1x6 1x2 1,25x7,5 1,5x3
	L62T3050	62x23	3x5	9,6	57	1x5
	L62T3060	62x23	3x6	12	48	1x4 1x2 1,25x5 1,5x3
	L62T4070	62x20	4x7	20	33	1x2
	L75T3040	75x35	3x4	6,5	77	1x7,5
	L115T3040	115x45	3x4	4,6	82	1x10,5

> TECHNICAL CHARTS

ALUMINIUM

Usage	Reference	Mesh (mm)	Thickness x Strand wid. (mm)	Kg/m ²	Open rate (%)	Comm. shapes width x length (m)
Filters	L5T0505	5x2,5	0,5x0,5	0,5	60	0,5x20
	L10T0505	10x5	0,5x0,5	0,25	80	0,5x40
	L12T0515	12x5	0,5x1,5	0,68	50	1x4
Metal facades and canopies	L40T1560	40x16	1,5x6	2,5	25	1x2
	L115T20200	115x45	2x20	3,65	11	1x2
	L150T20200	150x44	2x20	5	9	1,5x3
	L200T20200	200x75	2x20	3,1	47	1,5x3
	L200T30250	200x75	3x25	5,6	33	1,5x3
	E36T1230	36x8	1,2x3	2,2	12	1x2,6
	H115T2050	115x14	2x5	3,7	29	1x2

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Usage	Reference	Mesh (mm)	Thickness x Strand wid. (mm)	Kg/m ²	Open rate (%)	Comm. shapes width x length (m)
Filters	L5T0303 *	5x2	0,3x0,3	0,8	70	0,495x22
	L10T0506 *	10x5	0,5x0,6	0,8	76	0,495x44
	L10T0610	10x5	0,6x1	1,3	60	1x6,5
	L12T0515	12x6	0,5x1,5	2	50	1x4
Filters or renovation	L28T1520	28x12	1,5 x2	4	67	1x6 1,25x7,5
Renovation	L40T1020	40x16	1x2	1,7	75	1x8,5
Walkways	L62T3060	62 x23	3x6	12	48	1x2
Renovation	L75T2020	75x36	2x2	1,7	89	1x18
Decoration and others	R3T0830	3*	0,8x1,5	3	45	1x2
	R5T0830	5*	0,8x1,8	3	45	1x2
Stair steps	E25T3040	25x5	3x4	14	30	1,2x0,3
Renovation	NERVINT **	18x9	0,35x1,5	1	90	0,6x2,5

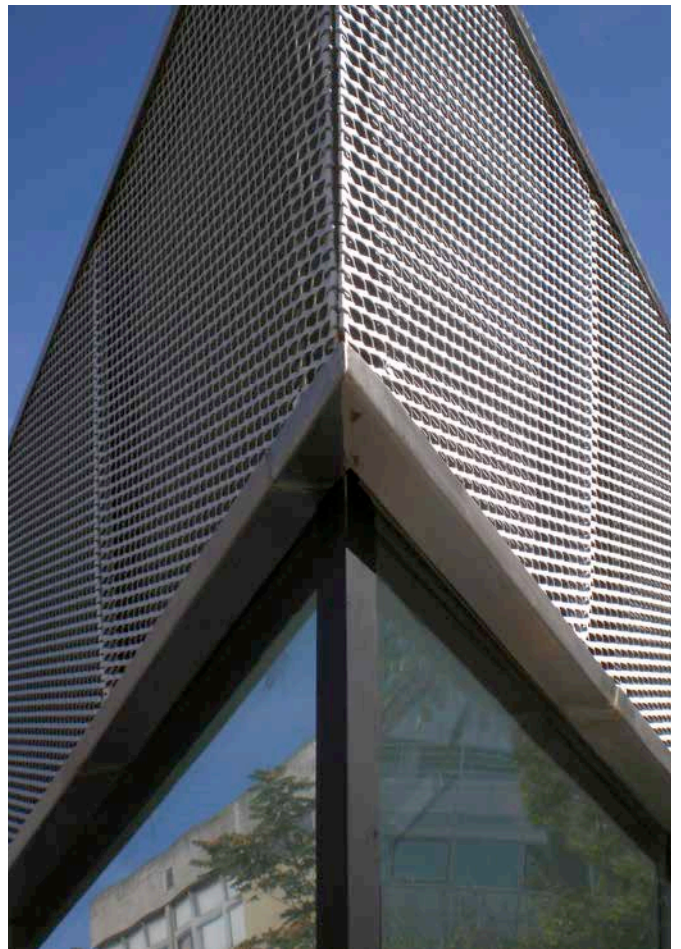
* Flatenned ** 20 sheets per pack, as minimum quantity

STAINLESS STEEL, AISI 304

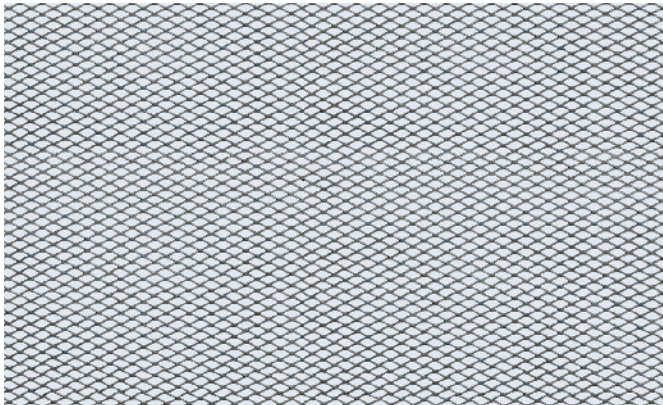
Usage	Reference	Mesh (mm)	Thickness x Strand wid. (mm)	Kg/m ²	Open rate (%)	Comm. shapes width x length (m)
Food industry / chemical industry Filters	L10T0515	12x5	0,5x1,5	2	40	1x4
Walkways	L62T3060	62x20	3x6	12	40	1x2

BRASS

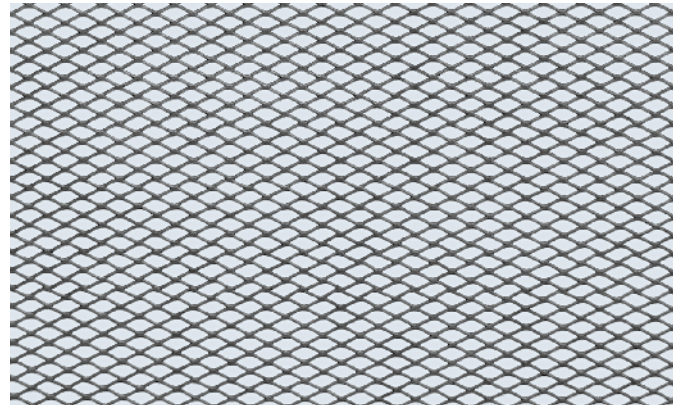
Usage	Reference	Mesh (mm)	Thickness x Strand wid. (mm)	Kg/m ²	Open rate (%)	Comm. shapes width x length (m)
Fireplaces and recuperators / Decoration	L12T0515	12x6	0,5x1,5	2	50	1x4



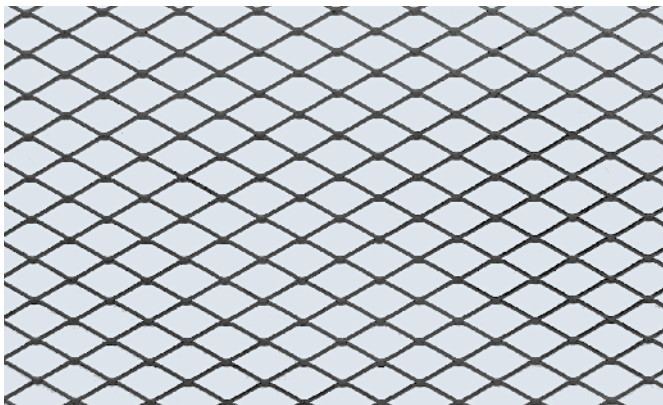
➤ MICRO MESH FILTER SCREEN



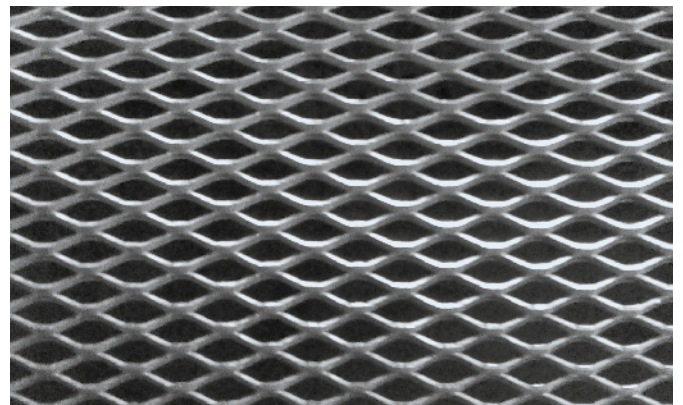
L3 T0404



L5 T0405



L10 T0505

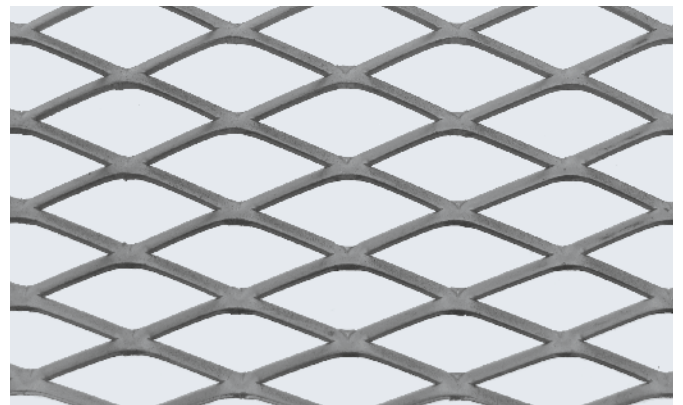


L12 T0515

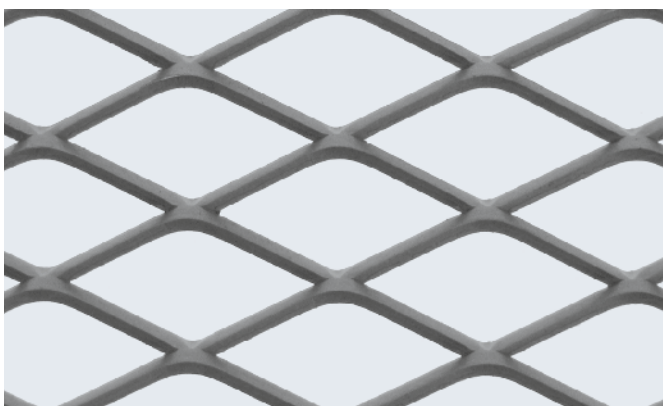
➤ STANDARD MESH (MISCELLANEOUS USAGE)



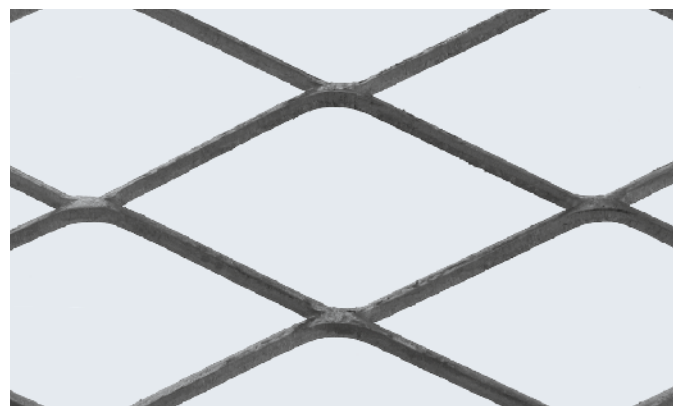
L20 T0515



L28 T1520

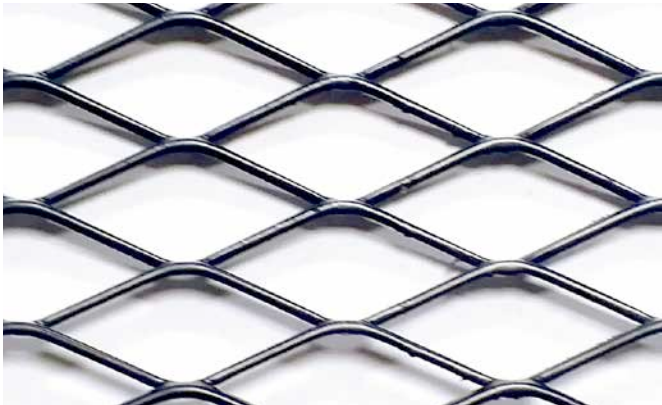


L40 T2030



L62 T2025

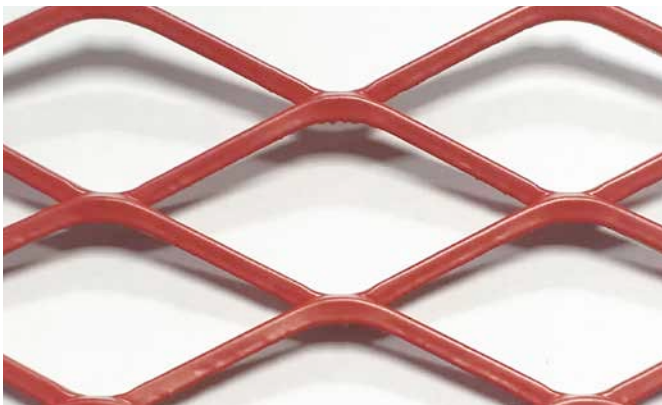
> PLASTER MESH



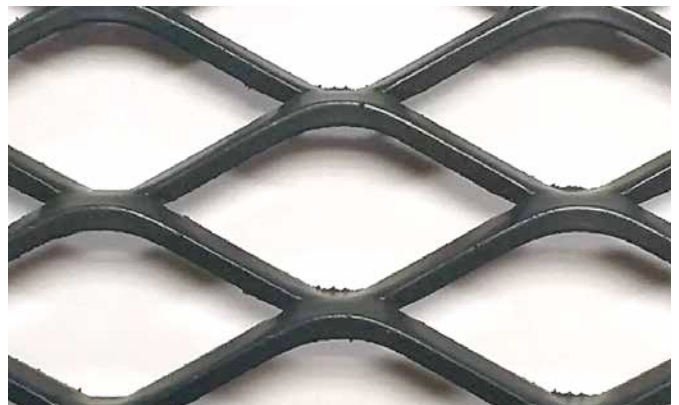
L40 T1030



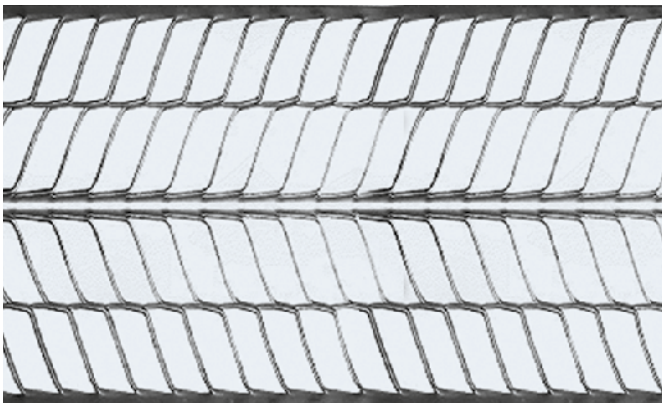
L62 T1515



L62 T2025



L62 T3060



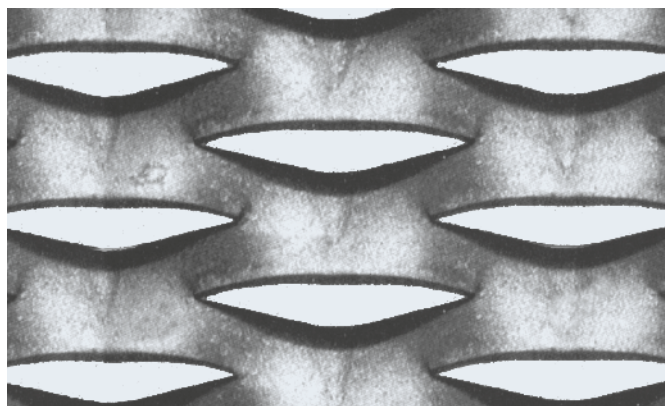
Riblath



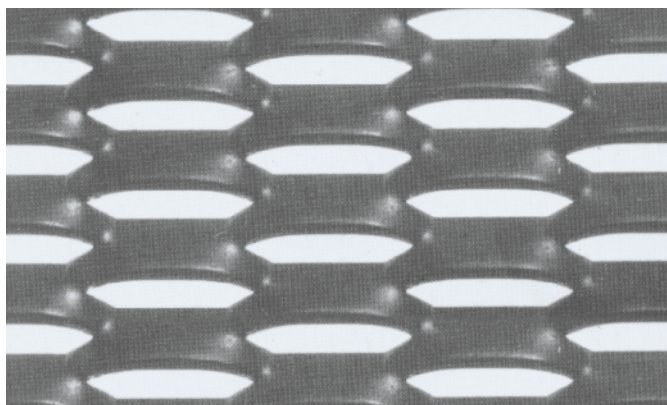
> WALKWAYS MESH



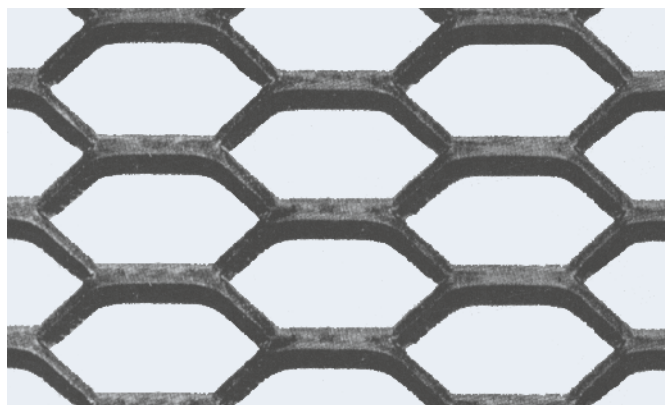
L75 T5080



L62 T4070

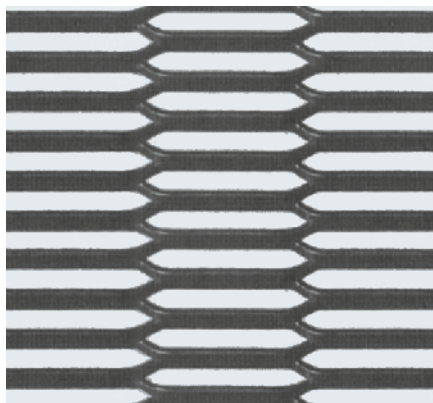


E25 T3040

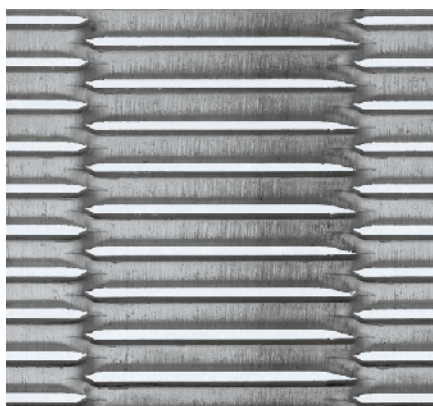


H28 T3040

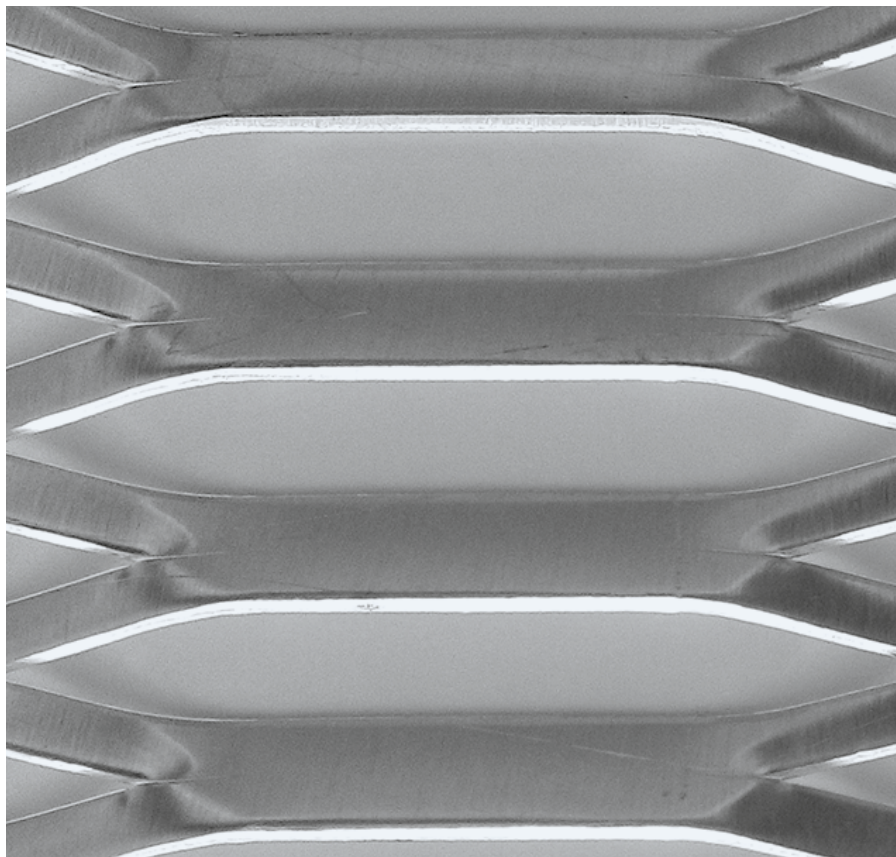
> HEXAGONAL MESH



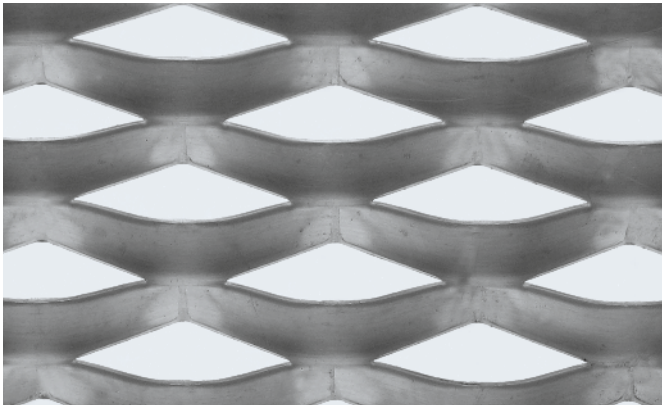
E22 T1025



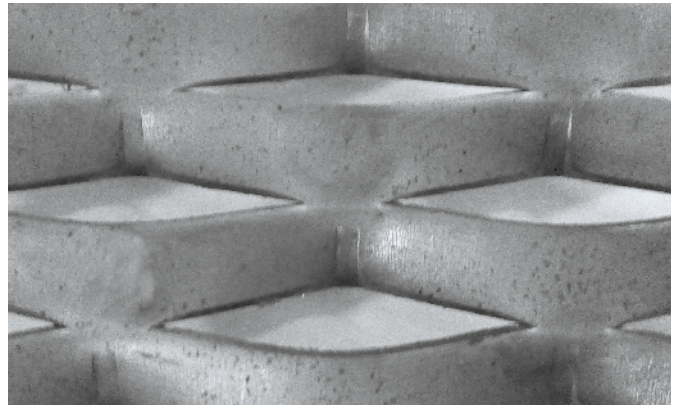
E36 T1230



H115 T2050

> ARCHITECTURAL MESH (INCL. FACADES)

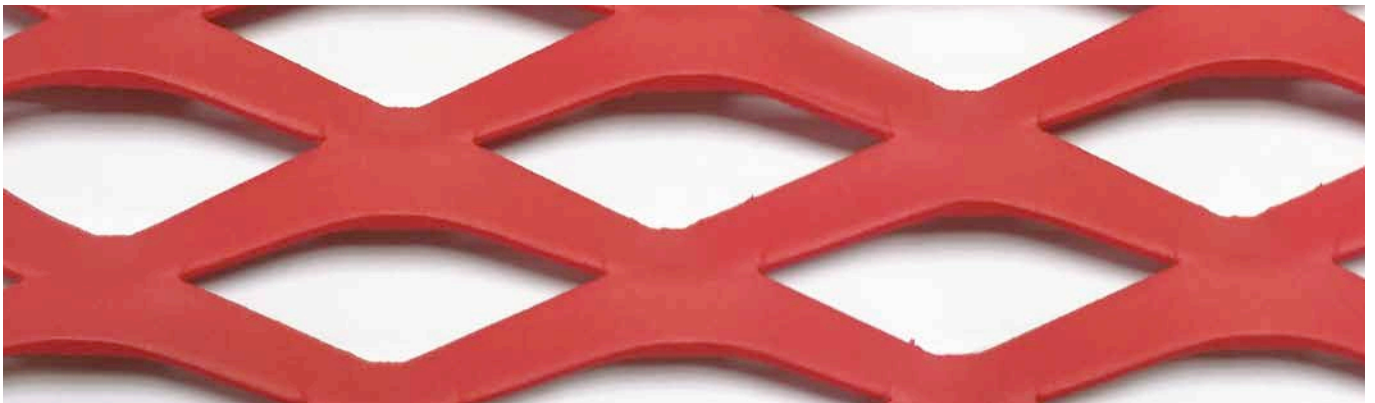
L40 T1560



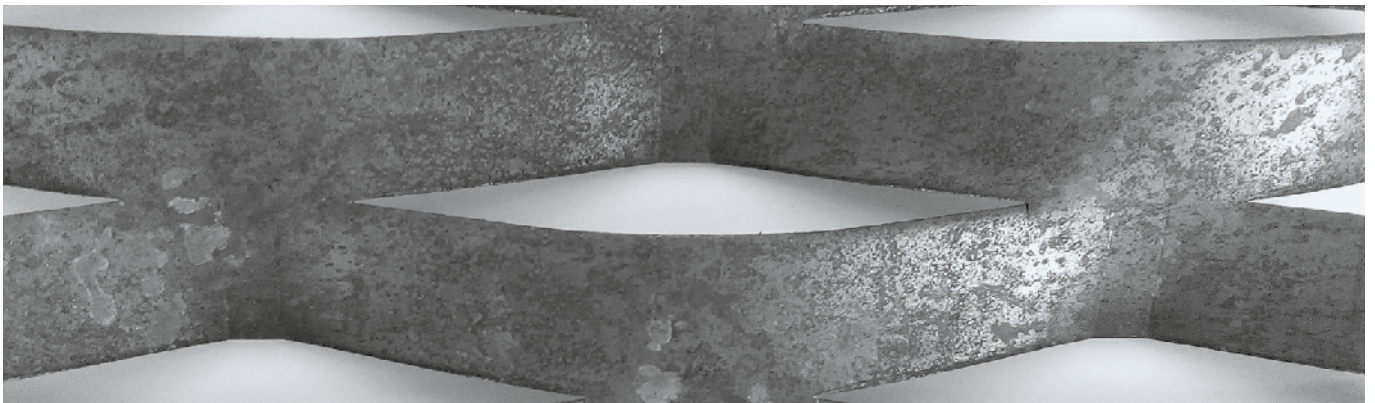
L62 T20120



L75 T2080

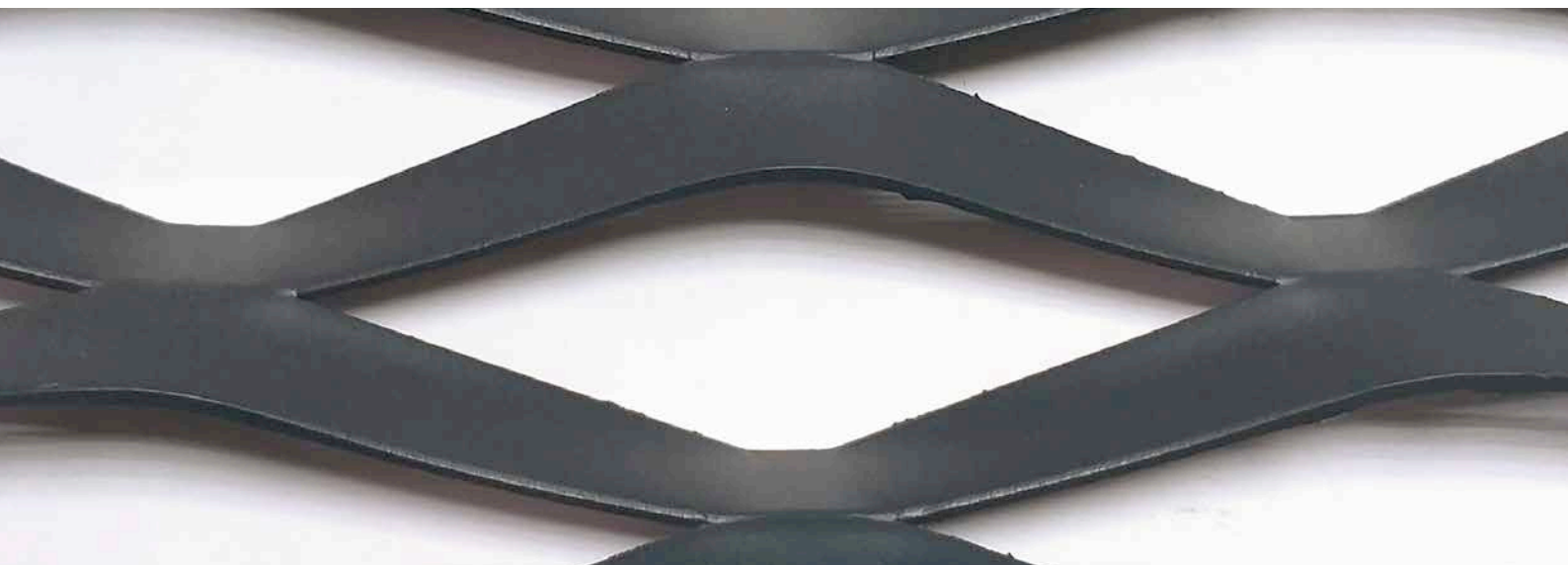


L75 T20150



L115 T20200

➤ ARCHITECTURAL MESH (INCL. FACADES)



L150 T20200

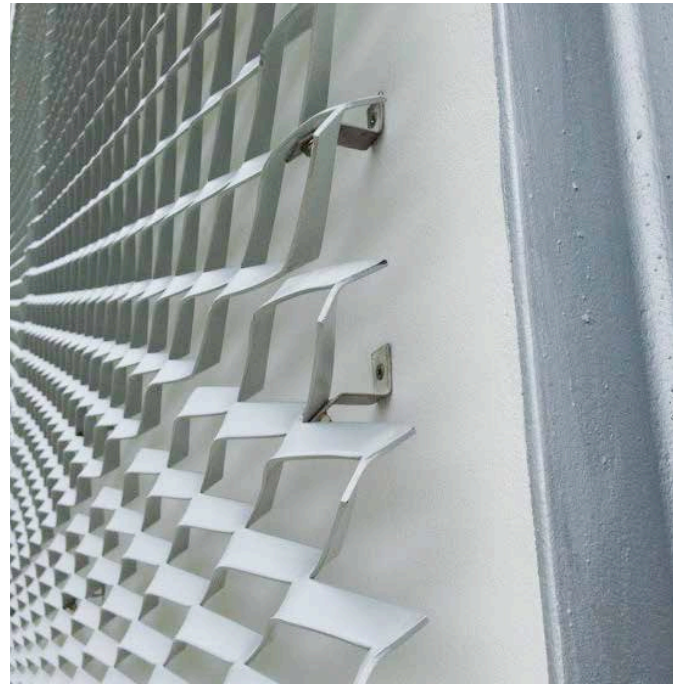
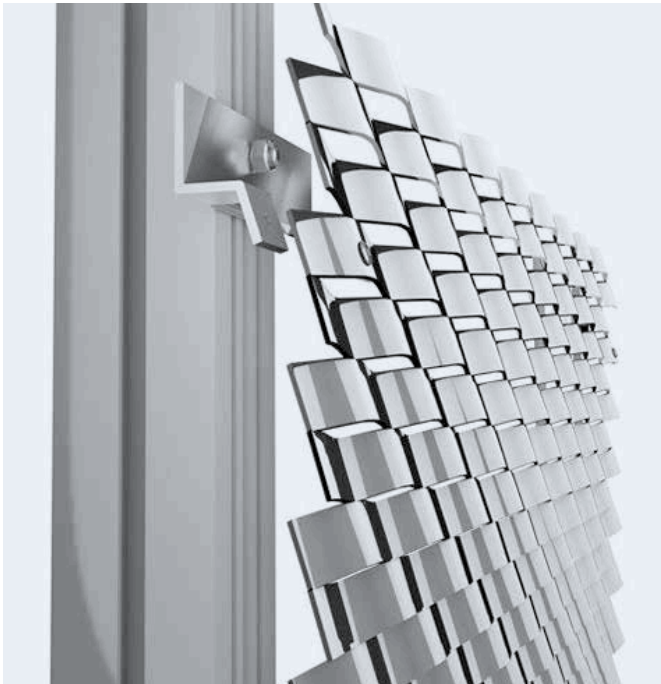
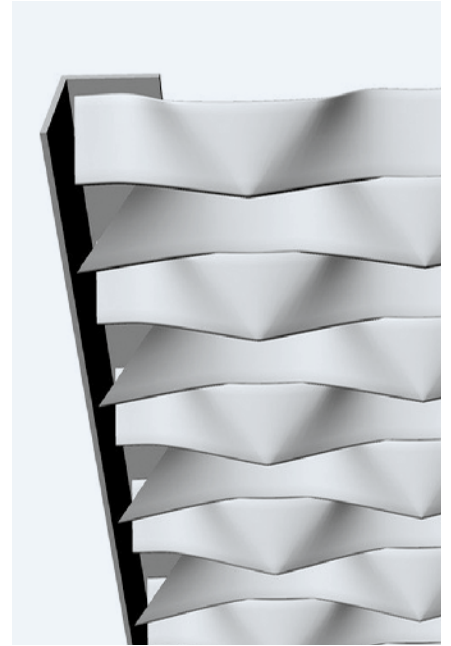
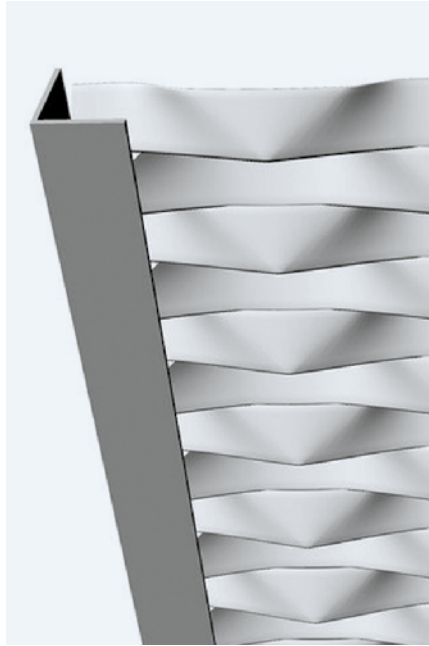
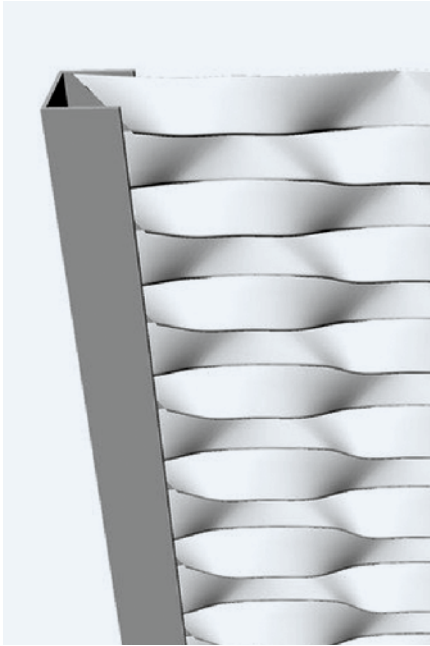


L200 T30250



L200 T30350

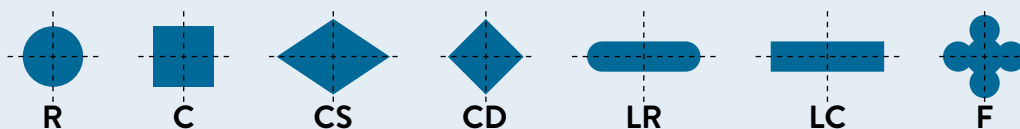
➤ FIXING DEVICES AND SUPPORT STRUCTURES



> TECHNICAL SPECIFICATIONS

Perforated sheets are a metallic filter surface. The diverse layout of hole patterns and the self-supporting features of the material, make it a versatile product for various uses in the industrial sector and for architectural purposes.

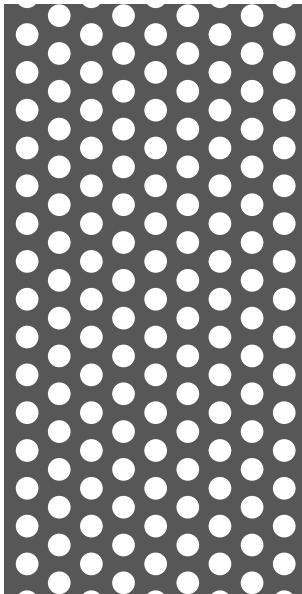
Hole types



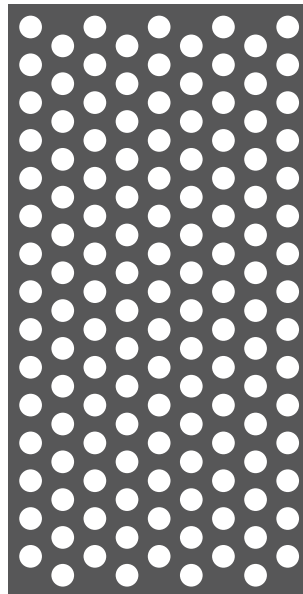
Hole patterns

		Open rate (%)	N° of holes / dm ²
60° staggered type (T)		$90,7 \times \left(\frac{D}{T}\right)^2$	$\frac{11.500}{T^2}$
45° staggered type (M)		$78,5 \times \left(\frac{D}{M}\right)^2$	$\frac{10.000}{M^2}$
U-shaped (U)		$78,5 \times \left(\frac{D}{U}\right)^2$	$\frac{10.000}{U^2}$
U-shaped (U)		$100 \times \left(\frac{C}{U}\right)^2$	$\frac{10.000}{U^2}$

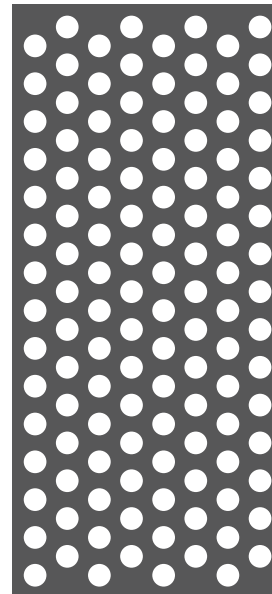
Sheets and rolls can be partially or completely perforated



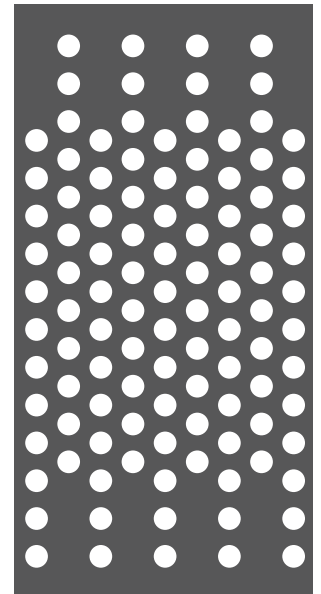
S (standard)



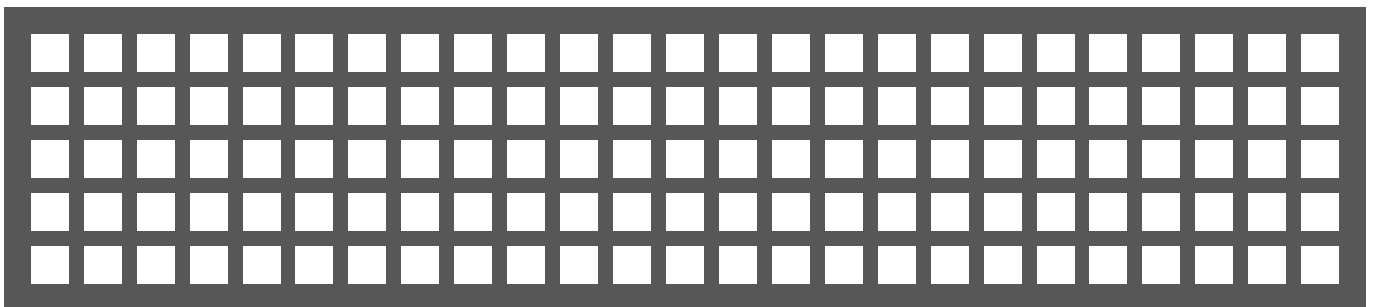
SC



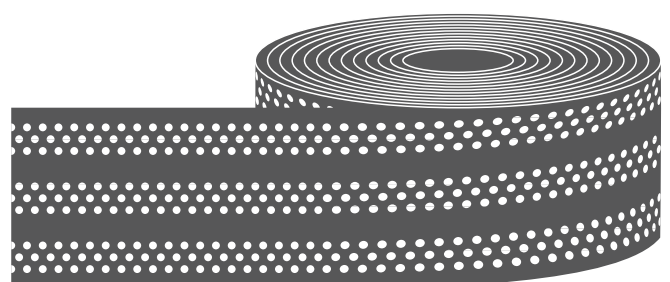
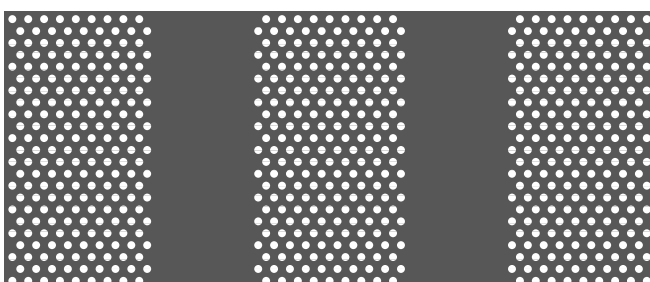
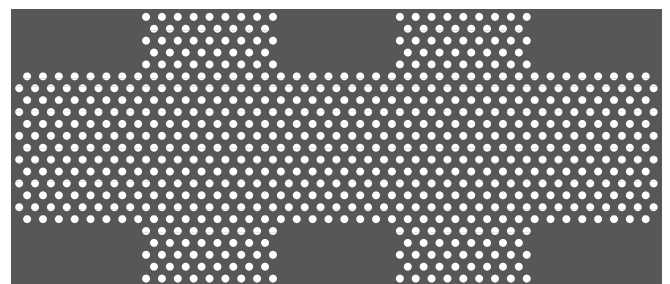
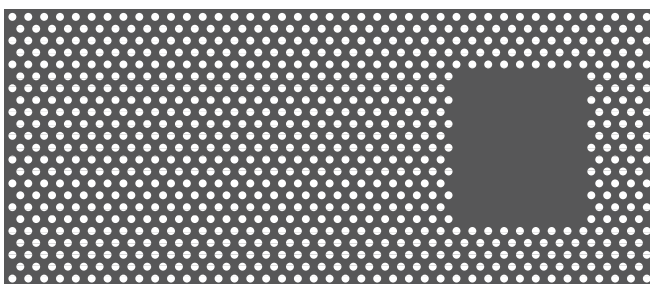
C



NC



SC



> METAL SHEET STOCK

MILD STEEL

	F	T-U-Z	%	Thickness (mm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				0,5	0,75	1	1,5	2	3	4	5	6	8	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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MILD STEEL

				Thickness (mm)										
		T-U-Z	%	0,5	0,75	1	1,5	2	3	4	5	6	8	10
C	5	U 7	51			●	●							
	8	U 10	64			●	●							
		U 12	44			●	●	●						
	10	U 12	70			●	●							
		U 15	45			●	●	●						
	15	U 20	56				●							
	20	U 40	25				●							
	30	U 60	25				●							
	40	U 80	25				●							
LR	4X20	Z 16X25	39			●								
	5X20	Z 20X25	39				●							
F	8	9	37	●		●								
	9	16	34			●								
	45	20	44		●									
	R/C					●								
	R/L					●								

AISI 304 / AISI 316

	●	■	T-U	%	Épaisseur (mm)										
					0,5	0,8	1	1,5	2	3	4	5	6	8	10
R	●	■	0,5	T1,5	10	●									
			0,6	T1,5	15	●									
			0,8	T1,5	20	●									
			1	T2	23	●	●								
				T2,25	18			●							
			1,5	T2,5	33	●		●							
				T3	21		●	●							
			2	T3,5	17				●						
				T3,5	30	●	●	●	●						
			2,5	T4,5	18					●					
				T4	35		●	●							
			3	T5	33	●	●	○	○	●					
				T6	23						●				
			4	T6	40	●	●	●	●	●					
				T7	33						●				
C	■	■	5	T8	35		●	○	○	●	●				
			6	T9	40		●	●	●	●					
				T10	33						●				
			8	T12	40		●	●	●	●					
			10	T15	40			○	●	●					
			5	U7	51	●	●								
				U10	64		●								
			8	U12	44		●	●							
				U15	45		●	●							

ALUMINIUM

	●	■	F	T-U	%	Épaisseur (mm)										
						0,5	0,8	1	1,5	2	3	4	5	6	8	10
R	●	■	F	2	T3,5	30			●							
				3	T5	32			●	●						
				4	T6	40			●							
				5	T8	35			●	●						
				10	T15	40			○	○						
C	■	■	F	5	U7	51	●									
				8	9	37	●	●								
				8 bis	10	43	●									
				9	16	34	●									
				45	20	44	●	●								

SENDZIMIR GALVANIZED

	●	T-U	%	Épaisseur (mm)										
				0,5	0,75	1	1,5	2	3	4	5	6	8	10
R	●	2	T3,5	30			●							
		3	T5	32	●	●	○	○	●					
		4	T6	40		●	○	○	●					
		5	T8	35	●	○	○	○	○					
		6	T9	40		○	○	○						
		8	T12	40		●	○	○						
C	■	10	T15	40		○	○	○						
		10	U12	70		○								
C	■	10	U15	45		○	○	○						

T/U/Z



● Also in 1250X2500

○ Also in AISI 316

○ Sizes 1000X2000, 1250X2500, 1500X3000

R (Round, diameter)

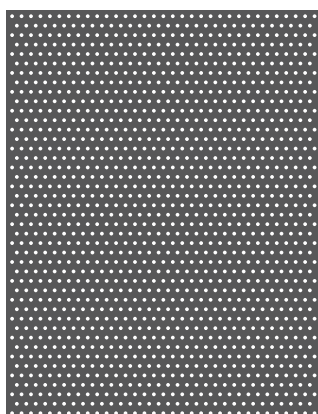
C (Square, wall)

LR (Slot hole, Width x Length)

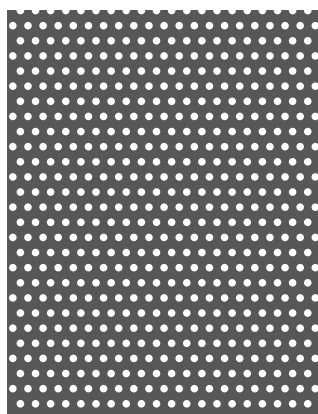
F (Fantasy, diameter)

T; U, Z (Pitch)

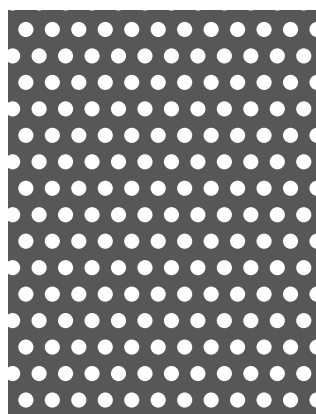
> ROUND HOLES



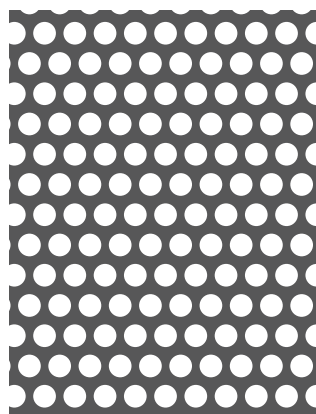
R0,5 T1,25



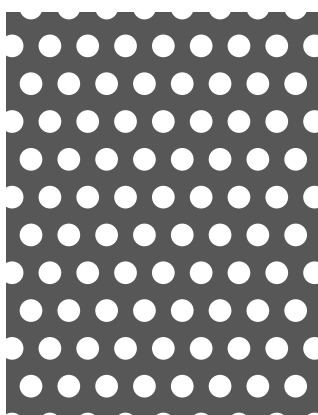
R1 T2



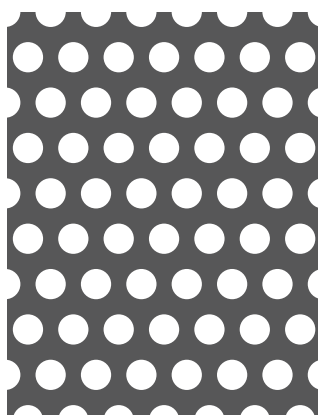
R2 T3,5



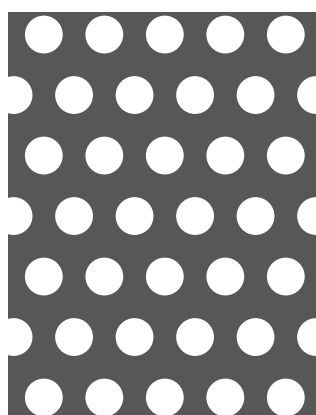
R3 T4



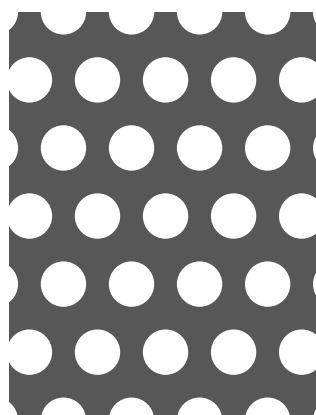
R3 T5



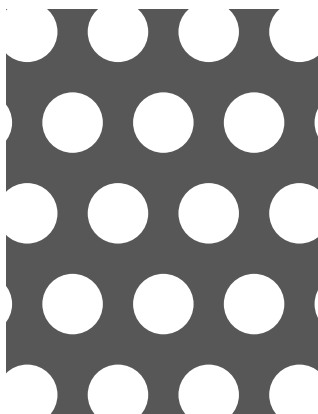
R4 T6



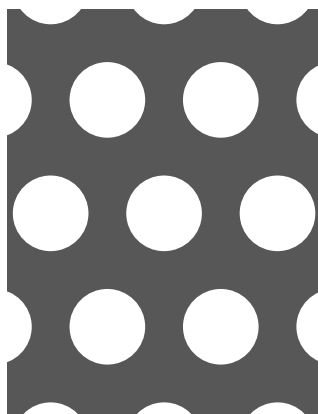
R5 T8



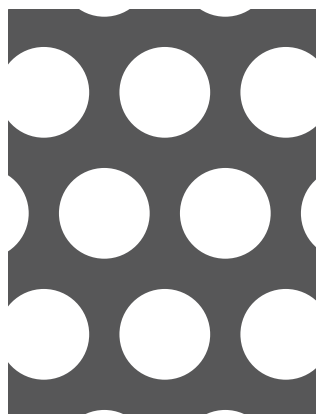
R6 T9



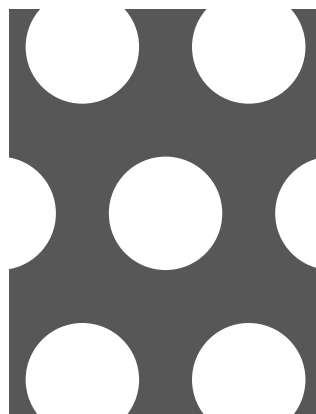
R8 T12



R10 T15

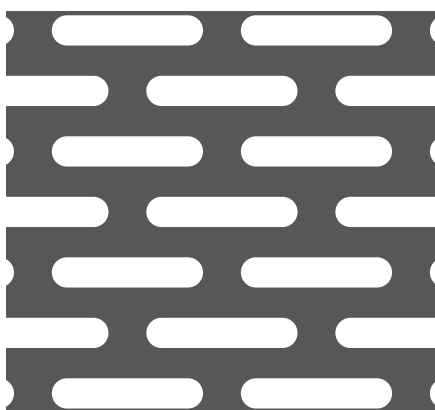


R12 T16

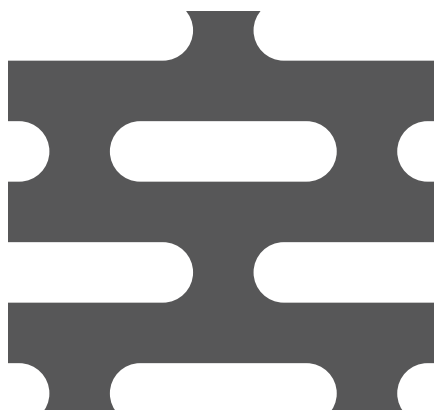


R15 T22

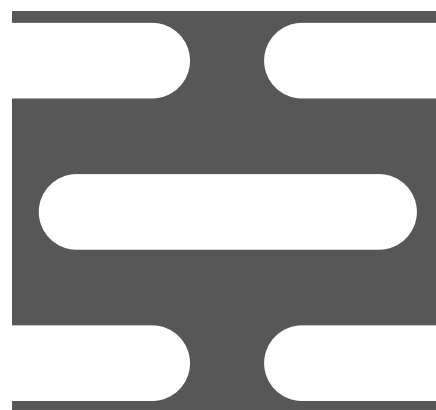
> SLOT HOLES



LR4x20

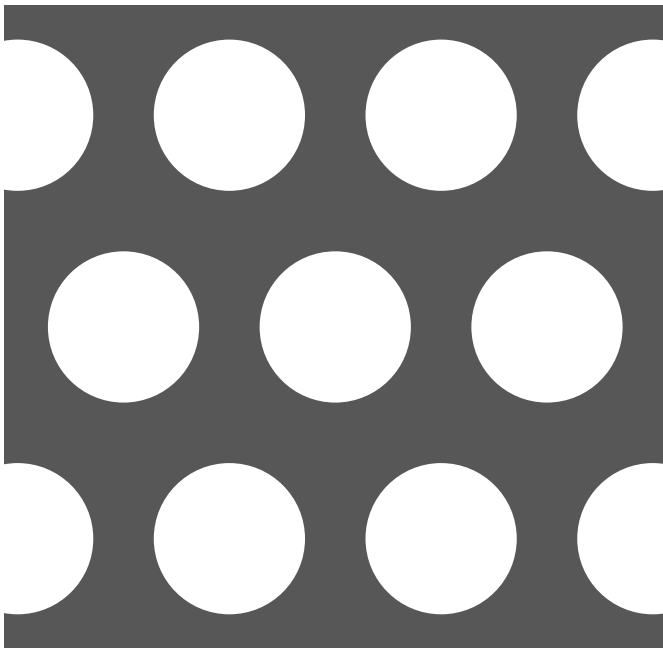


LR8x30

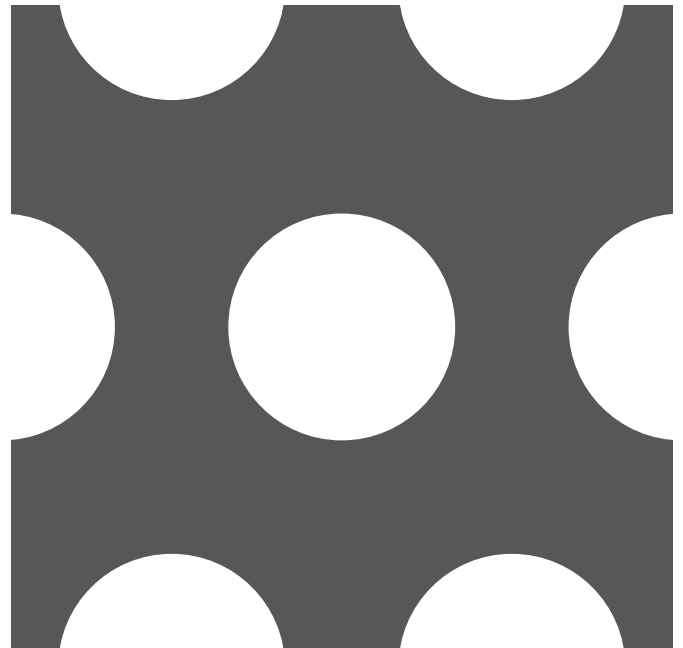


LR10x50

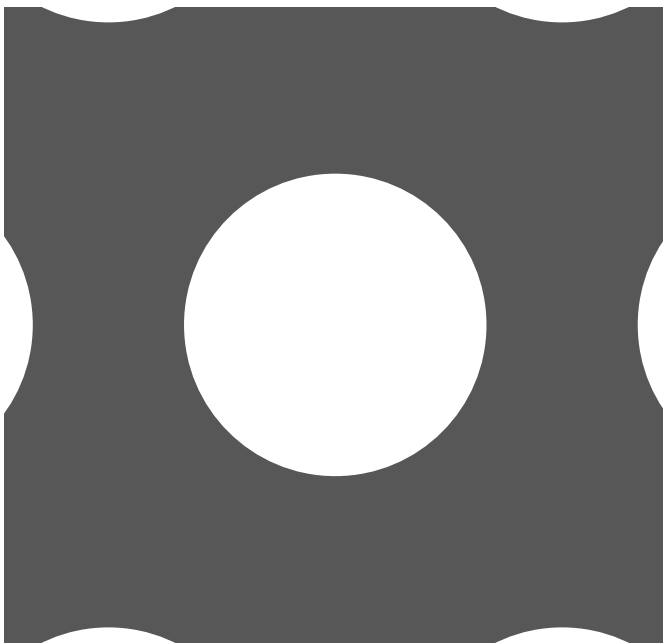
> ROUND HOLES



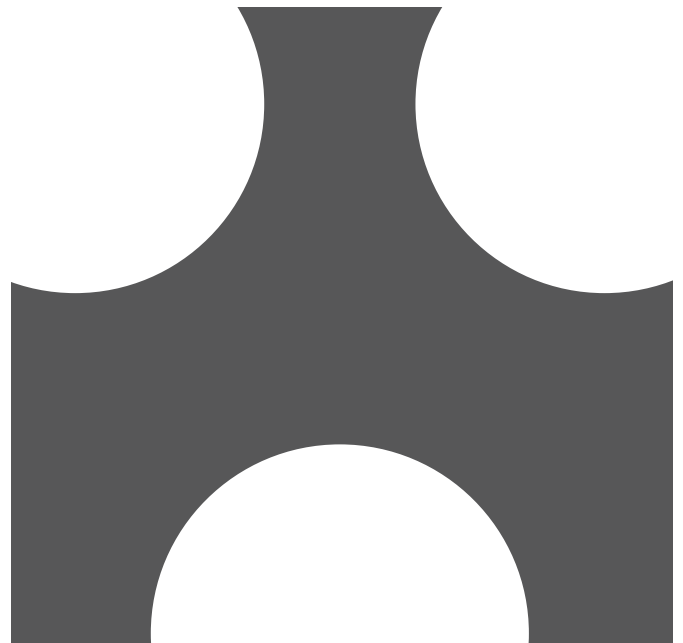
R20 T28



R30 T45

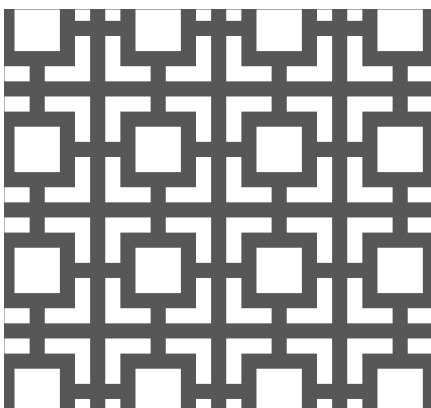


R40 T60

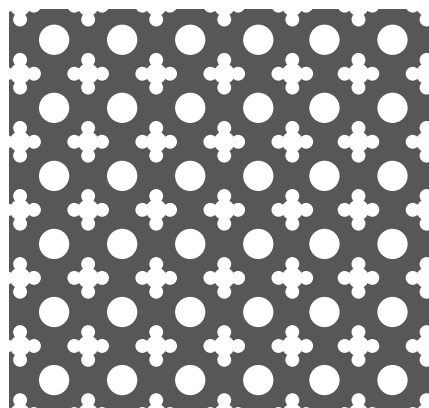


R50 T70

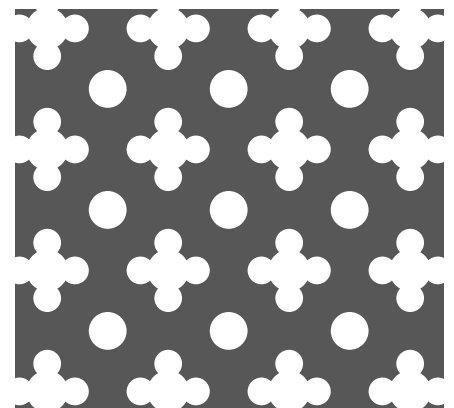
> DECORATIVE SHEETS



F45

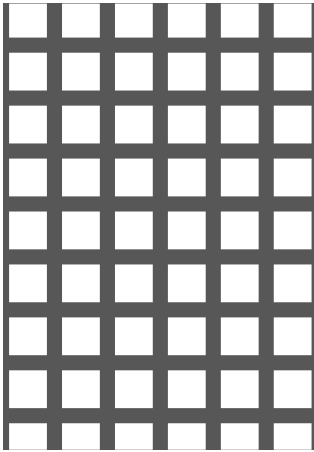


F8

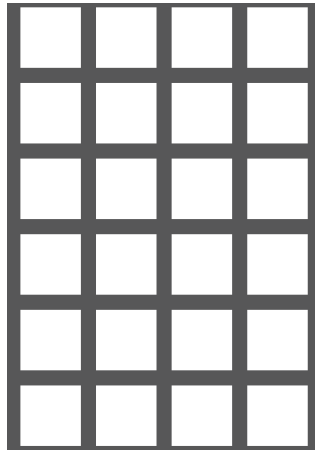


F9

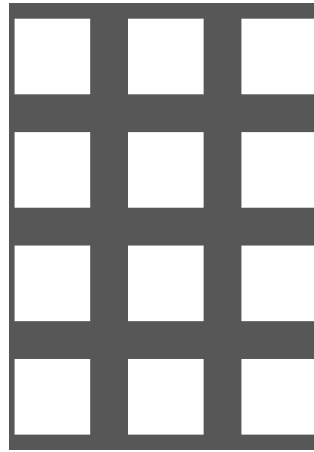
> SQUARE HOLES



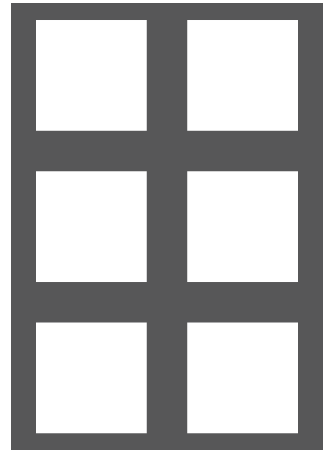
C5 U7



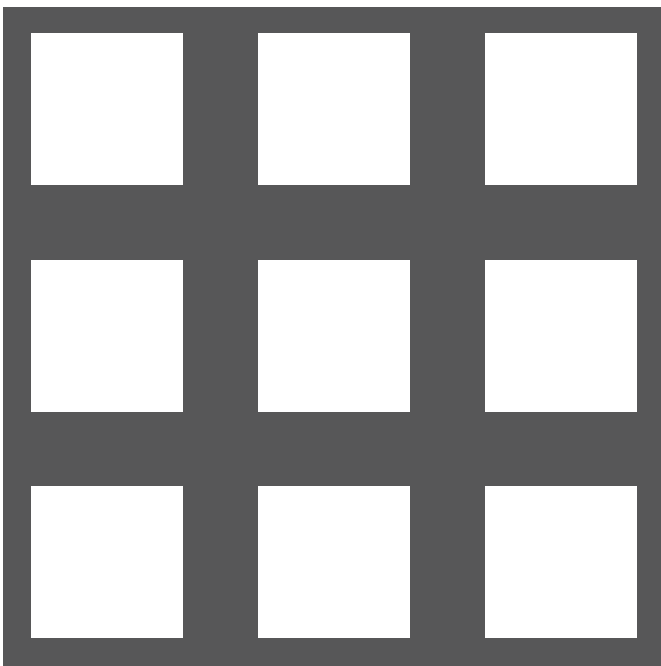
C8 U10



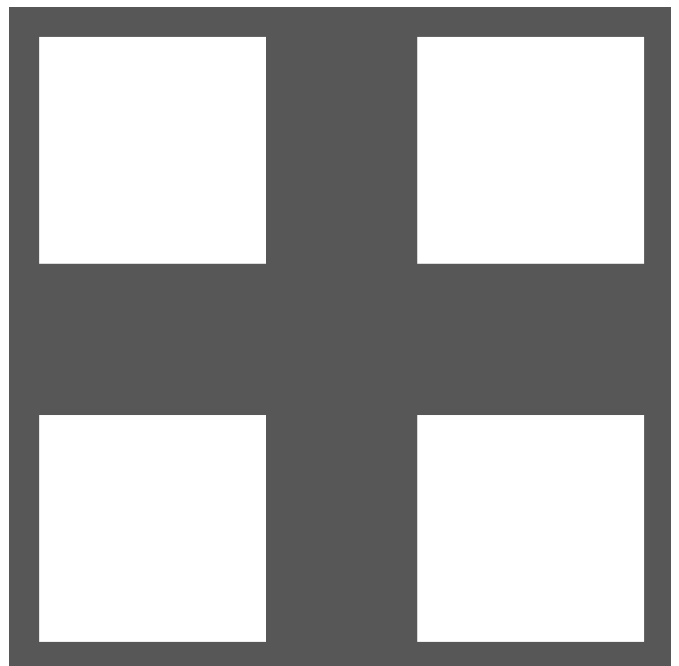
C10 U15



C15 U20



C20 U30



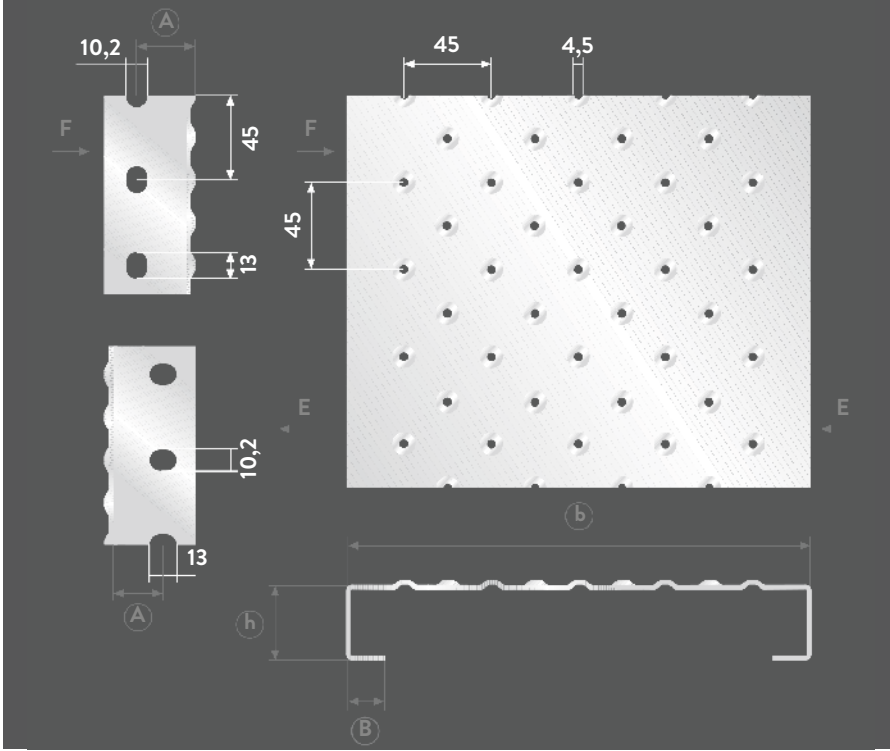
C30 U50



C40 U80

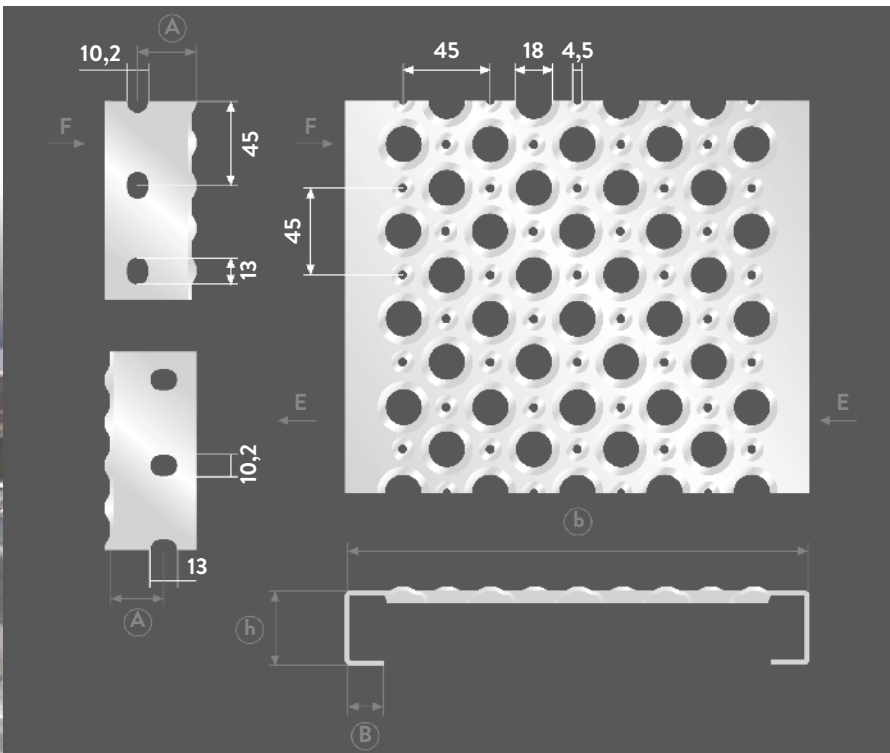
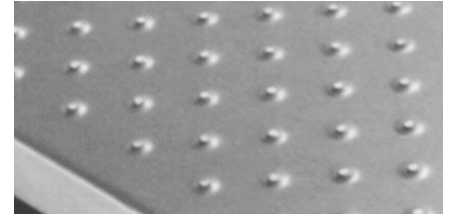
► TECHNICAL SPECIFICATIONS

Metal mesh floors are ideal, mainly when bridging large spans or in case of surfaces with a low open rate. The special embossing and perforation of the surface ensures greater safety and grip. Perforated and embossed metal flooring are an excellent option for any industry that requires slip-resistant flooring in its operations.



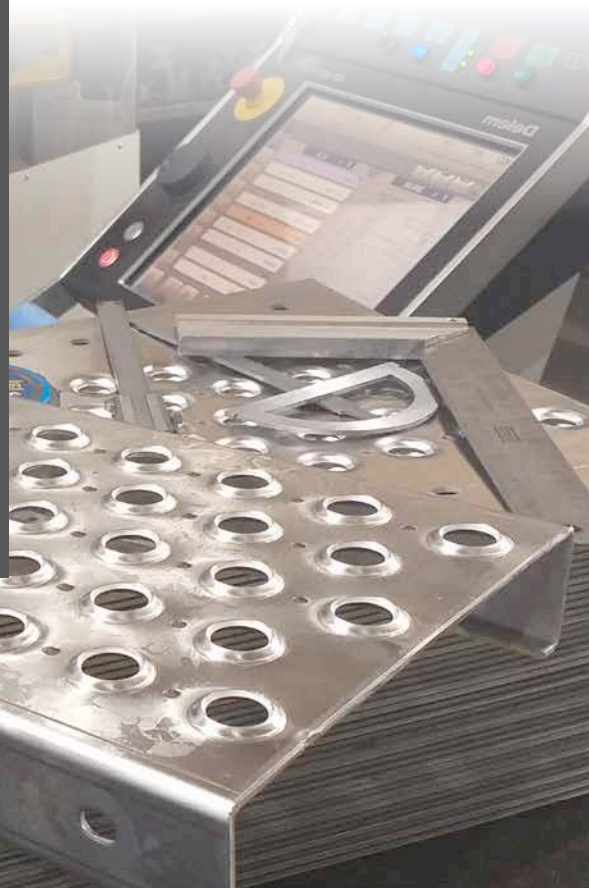
MINI ADERSTOP

Slightly rough anti-skid surface.
Such a feature ensures grip and
allows for liquid drainage.



ADERSTOP

Slightly rough anti-skid surface. Such a feature ensures grip and allows for liquid drainage.



> LOAD CHART

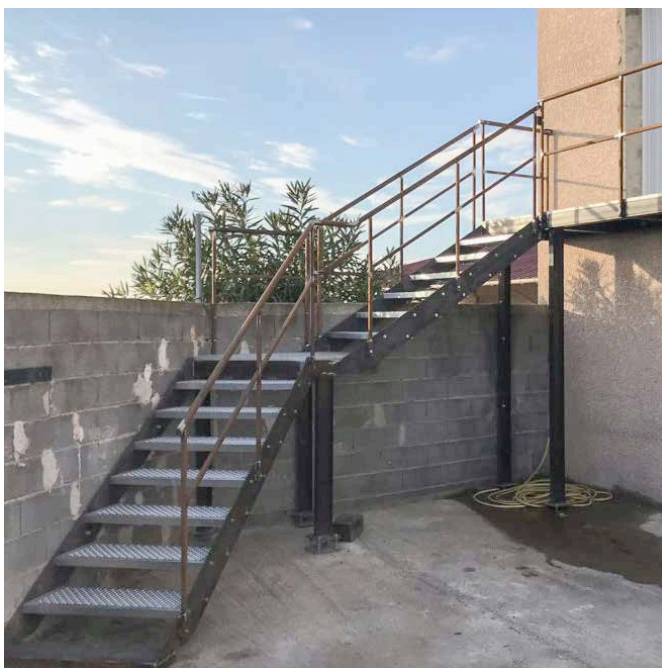
MINI ADERSTOP AND ADERSTOP

HEIGHT 30mm

Span (mm)	750	1000	Distance between supports (mm)		1750	2000
			1250	1500		
Evenly distributed load (kN/m ²)						
182	17,48	9,70	6,09	4,14	2,96	2,19
240	13,39	7,41	4,64	3,13	2,23	1,64
298	10,84	5,98	3,73	2,51	1,77	1,29
330	9,85	5,42	3,37	2,26	1,59	1,15
356	9,13	5,02	3,12	2,09	1,47	1,06
414	7,88	4,32	2,67	1,78	1,24	0,89
475	6,87	3,75	2,31	1,52	1,05	0,75
Concentrated load (kN)						
All	1,21	0,91	0,73	0,61	0,52	0,46

HEIGHT 50mm

Span (mm)	750	1000	Distance between supports (mm)		1750	2000
			1250	1500		
Evenly distributed load (kN/m ²)						
182	45,27	25,31	16,06	11,04	8,02	6,05
240	35,00	19,54	12,39	8,50	6,15	4,63
298	28,54	15,92	10,08	6,90	4,99	3,75
330	25,94	14,46	9,15	6,26	4,52	3,39
356	24,10	13,43	8,49	5,80	4,18	3,13
414	20,88	11,62	7,33	5,01	3,60	2,69
475	18,26	10,16	6,40	4,36	3,13	2,34
Concentrated load (kN)						
All	3,11	2,34	1,87	1,56	1,33	1,17



GROUP COMPANIES:



Lasindustria

Laser cutting | Water jet cutting | Punching | Bending | Welding

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Metal products and solutions for architecture, renovation and security

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For a better and easier identification, quote SJMETAL in your projects, followed by the respective reference number.