

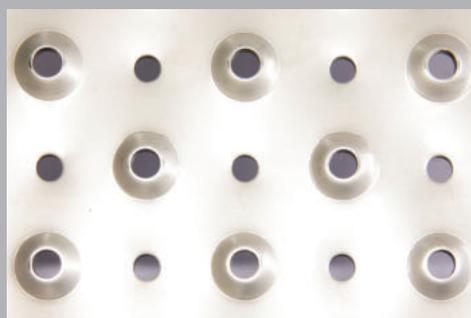
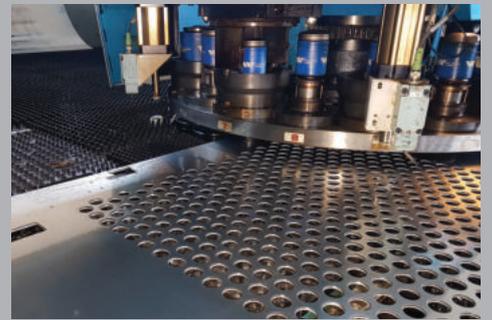


- SCHIAVETTI
- Lamiere
- forate

CATALOGUE

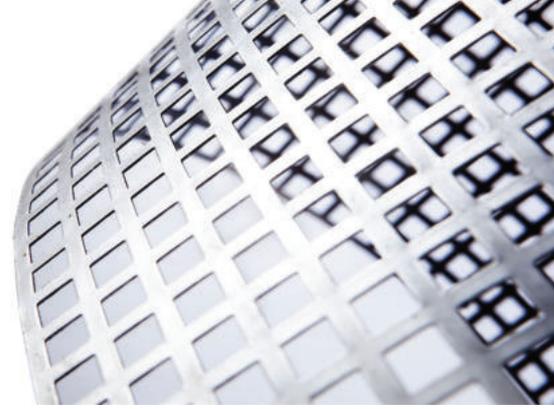
*Quando la tradizione sposa l'innovazione...*

*When tradition merges with innovation...*





# ● SCHIAVETTI ● Lamiere ● forate



Since 1861 SCHIAVETTI brand is an important referent for the market of metal processings. SCHIAVETTI Lamiere forate produces more than 1.7 million square meters of perforated sheets per year, which are exported to over 50 countries, in the dimensions and materials requested by Customers.

SCHIAVETTI Lamiere Forate's employees and agents work daily with high skills, experience, enthusiasm and passion.

In addition to the traditional flat product, available in a very wide range both from the stock and customized, SCHIAVETTI Lamiere forate can offer processings such as cutting, bending, welding, coil slitting, painting, anodizing. Our technical office supports Customers with competent technical information and helps them in the choice of materials and manufacturing processes.



1938

SCHIAVETTI Lamiere forate, in order to offer its customers a complete service (that includes the installation and fixing of the metal casing), works in partnership with specialized companies.

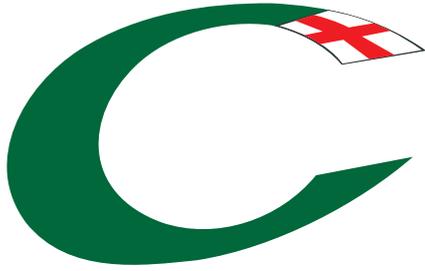
## Our production

Our company lays on a surface of about 15,000 square meters, located in Stazzano, Alessandria, where our operators work on presses, roller levelers and latest generation machines (of the brands Soenen, Schuler, Ungerer, etc.). The wide range of products in our warehouse allows us to quickly meet any type of request and to provide to any need.

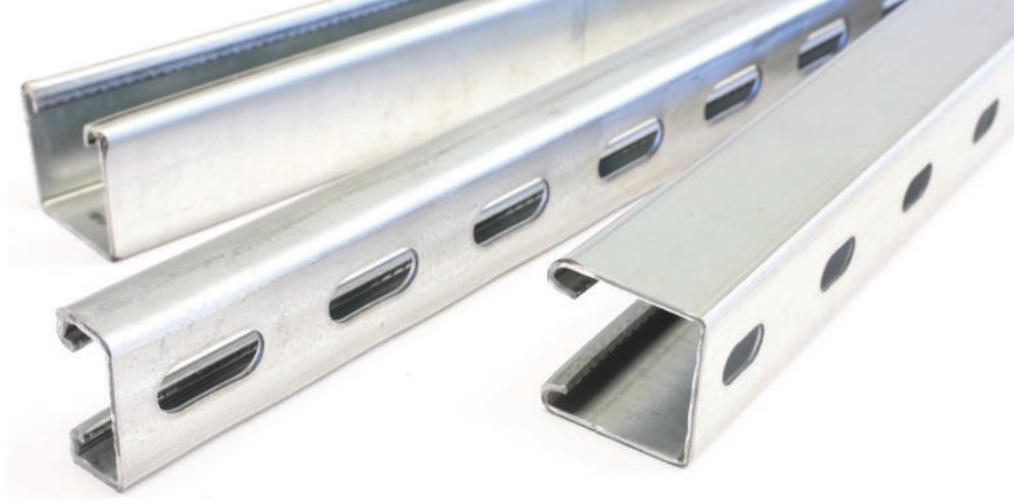
SCHIAVETTI has more than 400 press tools, entirely produced in its internal workshop, with qualified workers with specific experience and competence.

The plant is only a few km far from motorway A7, exits of Serravalle Scrivia (Vignole Borbera/Arquata Scrivia for trucks), easily reachable from Milan, Turin and Genoa.





PROFILATI LEGGERI  
**SCHIAVETTI**



PROFILATI LEGGERI SCHIAVETTI is a division of Schiavetti Lamiera forate, specialised in the production of metallic profiles.

During the years, the company has specialised its production into 4 sectors:

- metal profiles for plasterboards;
- metal profiles for anchorage/fixing in the electric and hydraulic sectors;
- metal profiles for fixing perforated or wired metal sheets and for metal meshes;
- special customized metal profiles.

The constant research of excellent quality and high standard services, allowed PROFILATI LEGGERI SCHIAVETTI to develop an important presence on the international markets.

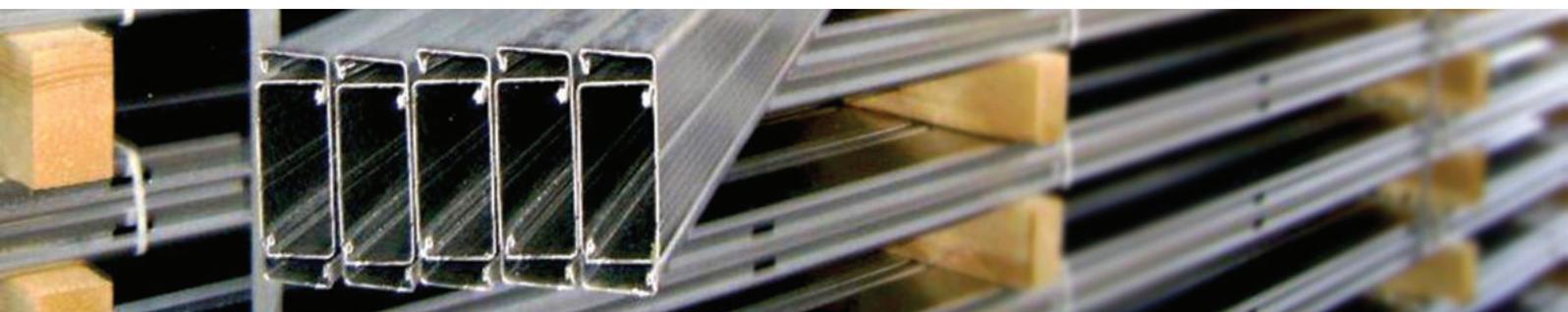
The capability to work coils of galvanised, carbon steel, stainless steel and aluminium – with thickness from 0,5 mm to 4 mm – makes Profilati Leggeri Schiavetti the ideal partner for customers looking for high technical standards.

## Our production

In the plant of Silvano d'Orba (AL), of about 4,000 square meters, we produce more than 4 millions meters of metal profiles with a thickness up to 4 mm in carbon steel and up to 3 mm in stainless steel.

The presence of technicians with experience, together with the engineering support from SCHIAVETTI Lamiera forate's offices, in Stazzano, allowed PROFILATI LEGGERI SCHIAVETTI to constantly improve its technical standards.

Thanks to its 7 profiles machines, hundreds of rollers and the internal workshop which can produce punching dies, we can satisfy the most different requests of profiles.



## Our mission

Our mission is to understand the needs of our Customers and help them to find the most convenient solution, which we will promptly and adequately produce.

All people working in our company are regularly trained to satisfy this mission.

SCHIAVETTI Lamiere forate pursues and realizes the aim of providing its Customers with quality products, perfectly meeting their needs in terms of time, quantity and costs.

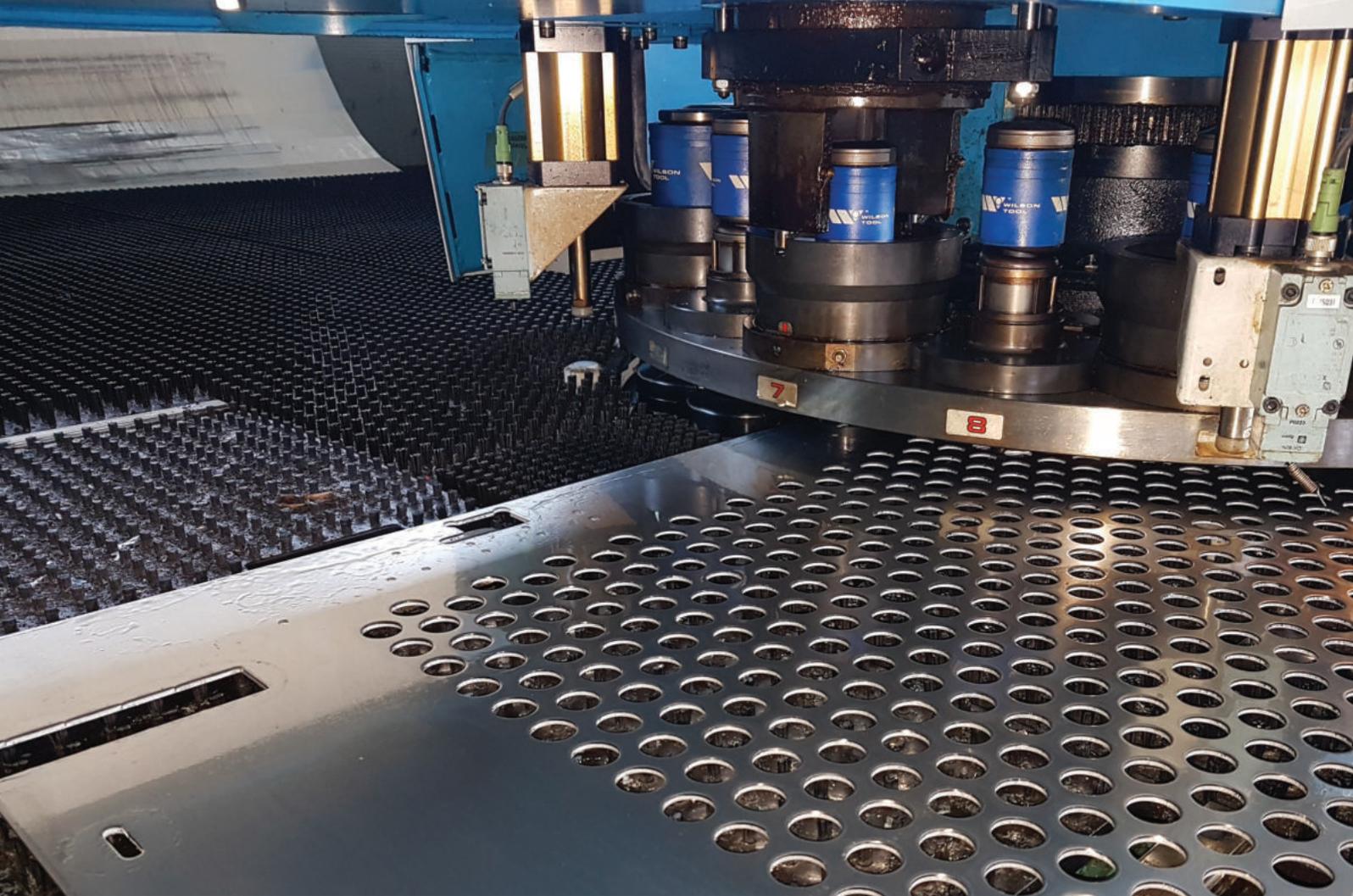
The improvement of all company processes involves everyone with constancy and dedication to keep up with the expectations of an evolving market.

The importance of work safety, of the ethics of relations with the staff and of the production chain are as important as the products quality and the satisfaction of our Customers. They are not only regulatory obligations by Schiavetti Lamiere forate, but a proper behaviour for the respect of people's natural rights.

# CERTIFICATIONS



- ISO 9001:2015 Certification issued by Bureau Veritas
- ISO 45001:2018 Certification issued by Bureau Veritas
- NF certification issued by French CSTB
- CE mark



## OUR PROCESSINGS

A **perforated plate** is a metal sheet containing a series of identical holes arranged in a grid pattern. The perforations are performed by a cold punching with punches and a die. Perforation is generally used to produce holes of larger or equal diameter than the thickness of the sheet. Industrial processing of perforated sheets is ruled by ISO standard 10630, which specifies tolerances and indicates practical verification methods.

**SCHIAVETTI Lamiere forate srl owns all-across perforating presses and sectional perforating presses.**

The differentiation of perforating processes allows the company to work different kinds of raw materials:

**carbon steel, stainless steel, galvanised, raw and painted aluminium, corten, magnelis, titanium.**



**All-across perforating presses** are so called because the entire width of the sheet or strip is perforated at each stroke. Automation of the perforating process is combined with the presence upstream of a decoiler which allows the automatic moving on of the coil to be perforated, and, downstream, of a shearing machine, a roller leveller and a recoiler. In this case we can talk of perforating lines, where the whole process is automatic and the characteristics of each perforation are set by computer.

**Sectional perforating presses** are equipped with press tools that do not cover the entire width of the sheet to be perforated. Sheets are therefore perforated in a series of passes. This was the first type of industrial process to be used for the production of perforated sheets, when technology couldn't offer better performances. They are still used for difficult perforations, where the shape of the perforated areas means that all-across presses cannot be used, when the perforating force required by each punch is high or when production levels are limited. They can only be used for sheets and not for coils.



**Perforation** generates tensions inside the sheet which can deform and undulate it. To avoid this, the sheets must always be flattened on a roller levelling machine.

SCHIAVETTI Lamiera forate uses in its plant **multi-roller levelers**, which flatten the sheet between two sets of rollers, one above the other. The rollers are staggered with a reduced distance between centers. Wide unperforated margins, alternating perforated and unperforated areas, reduced hole pitch and cases in which the bridge is less than the thickness of the sheet make the process more difficult.



## BEYOND PERFORATION

SCHIAVETTI Lamiera forate, if requested by Customers, performs other processings.

### Shearing

Shearing is a process to cut perforated sheets in the exact dimensions requested by the customer. For this process guillotine shears are used. It is necessary in case of measures different from the production standards or in case of very small dimensional tolerances.

### Notching

Notching is one of the most used mechanical cutting processes for perforated sheets. The edges of the metal sheet that must be folded are removed on all four sides. The so notched edges make easier to avoid interferences between the flaps during the bending phase.





## Painting

Perforated sheets can be painted to improve their appearance and to better protect them from rust. The most commonly used industrial methods are with epoxy powders (for indoor use) or polyester powders (for outdoor use). Upon request, it is possible to certificate the low flame spread of painted perforated sheets.



## Bending

Bending is the mechanical modification of the shape of a perforated sheet by a bending action. It can be carried out on sheets of all sufficiently plastic materials so that they do not crack at the folds. The most commonly used bending machine is a bending press with uprights, ie with a vertically movable beam.

## Degreasing

In order to free the perforated sheets from the lubricant used during the process of perforation, it is possible to degrease them by dipping them in alkaline or acid solutions heated to 70-80°C.

## Cutting or trimming with laser and punching fixing holes

Laser processings can be considered the main unconventional processings. They refine the perforated plates with fixing holes, more precise perimeter cuts, trimmings, decorative designs, according to the customer's needs.

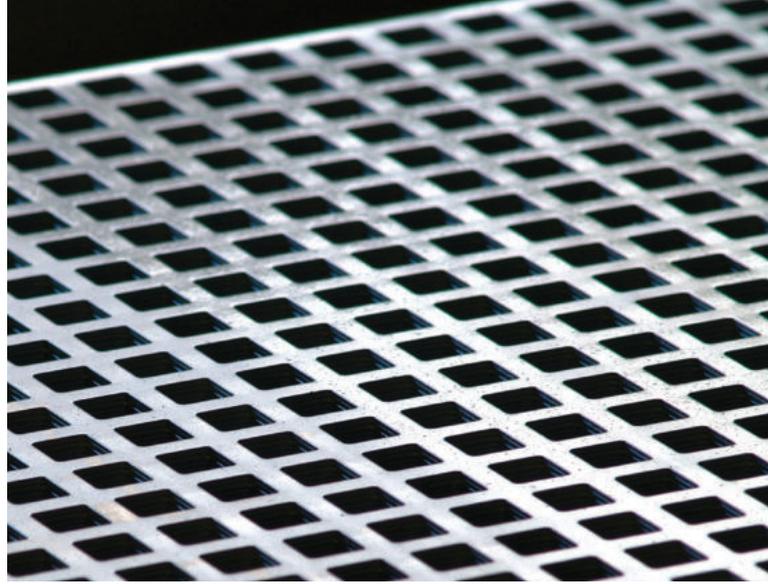


## Anodizing

Anodizing is an electrolytic process which quickly leads to the formation of a coat of oxide on the surface of aluminum sheets. The treatment improves surface appearance and increases resistance to corrosion. The sheets are dipped in an acid bath and electric current causes the formation of anodic oxides which are deposited on the surface of the metal. The most popular colours are natural, bronze and gold.

For further technical details on our processings it is possible to download the relative Perforated sheet technical information catalogue.

For further information on raw materials it is possible to download the relative Perforated sheet raw materials catalogue.



## SECTORS AND APPLICATIONS

SCHIAVETTI perforated metal sheets can be used in many market sectors and allow the exaltation of any application thanks to the versatility of the production and the use of selected high quality raw materials.



## Architecture

Metallic coatings are widely used in contemporary architecture. Materials mainly chosen are aluminium, stainless steel and corten. The use of perforated sheets gives a different perception of the volumes behind. The uses concern, for example, facades, balustrades, steps, sun screens, ceilings.

## Soundproofing

Perforated sheets applied to the soundproofing sector contribute to solving acoustic problems both in the external urban environment and in the internal environment. The sound-absorbing panel helps to create acoustic insulation with applications ranging from architecture (highway) to industry (soundproofing of technological production equipment).

## Filtration

Perforated metal sheets are fundamental components of the filtration systems, being the core of the filtering supports. Filters made with perforated sheets are used for the filtration of air, water, industrial liquids and are applied for example in productive plants in the food sector, in the industrial processings of different sectors, ecological and water purification plants.

## Switchboards

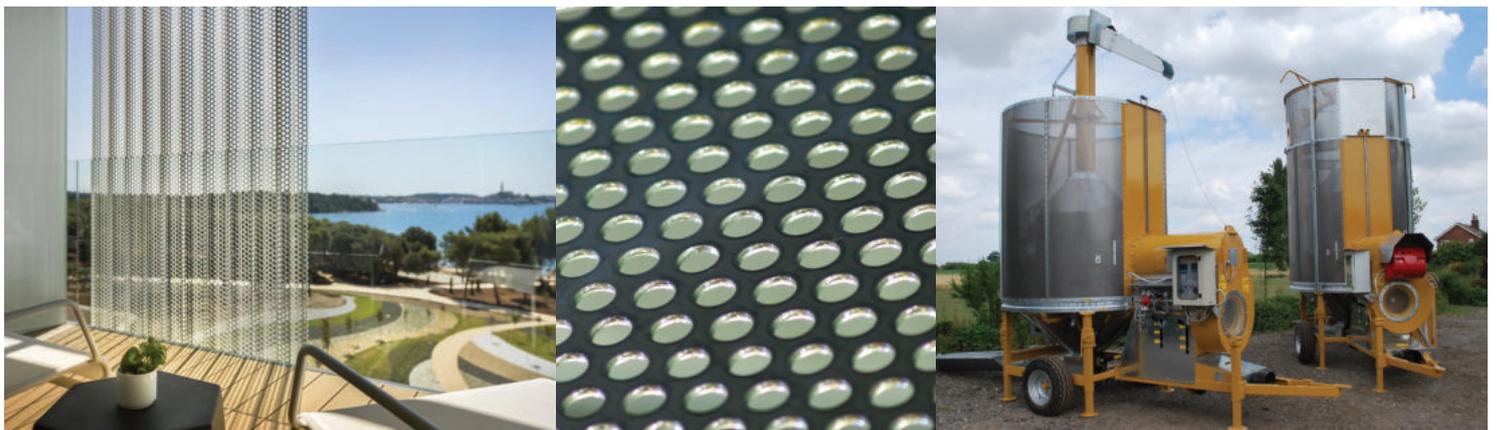
Perforated sheets are frequently used in the electrical sector for the construction of control units, cabins and electrical panels. Perforated sheets allow the electrical apparatus to be appropriately ventilated in consideration of the ratio between the diameter of the hole and their pitch (open area).

## Industrial processings

Industrial processings give endless possibilities for the use of perforated sheets. Machines and equipments for food, wine, dairy, chemical, pharmaceutical, biomedical sectors largely request the use of perforated stainless steel sheets. Other sectors such as electrotechnical, plant engineering and thermal make extensive use of perforated sheets in the most different materials, thicknesses and arrangements.

## Lighting

The combination of light and shade, the transparency offered and the countless design possibilities allow perforated sheets to be highly appreciated and used in the lighting industry. Perforated sheets are used for the construction of lamps, chandeliers, ceiling lights, furnishing components, light points in both residential and industrial settings.



## Agriculture

Thanks to the ventilation capacity of the perforated sheets, they are largely used in agricultural sector. The perforated sheet is normally bent, shaped and painted to meet the substantial needs (heat exchange, drying processes or tractor masks) and aesthetic demands of the market. The perforated sheet is mainly used for agricultural machinery, masks for tractors, dryers, sieves, beekeeping.

## Urban and naval furniture

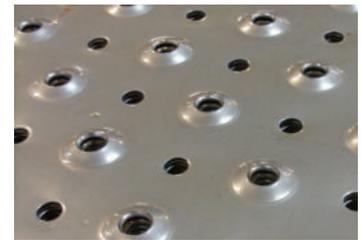
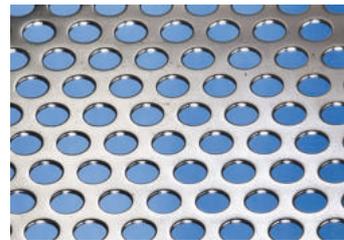
Perforated sheets are used for architectural applications or for urban furnishing of outdoor environments also in the naval sector. Perforated sheets are used both for new structures and for the recovery or restyling of existing ones, allowing to radically modify the aesthetics of the environment in which they are applied. Perforated sheets are used, for example, for the construction of benches, baskets, tiers, planters.

## Acoustics

The use of perforated sheets in the acoustic sector contributes to the improvement of both the sound diffusion and the aesthetics of the object to which it is applied. The perforated sheet is used as an external protective support, and can be adapted to the most different and original designs for loudspeakers and microphones.

## Doors, shutters, gates

Perforated sheets improve the aesthetic aspect of doors, shutters or gates. They also give resistance and protection according to the different materials used. The endless possibilities of realization and workability of the perforated sheets contribute to make practically unlimited the application areas.



## Commercial furniture

By combining aesthetical with functional aspects, perforated sheets are also widely used as furnishing components for commercial furniture in shops, showrooms and sales points. Perforated sheet are widely used for chairs, partitions, tables, bookcases, storage boxes, shelves, trolleys, refrigerated counters and display panels.

## Indoor furniture

Perforated sheets combine transparency, solidity and economy in contemporary indoor architecture. Thanks to the extreme workability and easyness of installation of the perforated sheets, the aesthetic aspects are enhanced without neglecting the structural and functional aspects. For example, perforated sheets are used for the construction of chairs, partitions, tables, bookcases, shelves and trolleys.

## Painting booths

Painting booths are part of the industrial sector, and widely use perforated sheets from filtration systems to suction tables, from grills to supports and trolleys. The filtration capacity and the open area ratio of the perforated sheets ensure compliance with the functional parameters in the painting process.

## Household appliances

In the household appliances industrial sector, perforated sheets are mainly made of stainless steel. By combining functional to aesthetic aspects, they allow the creation of items with excellent design. Perforated sheets are used for refrigerators, suction hoods, washing machine baskets, dishwasher filters, ovens, microwaves and mincers.

## Automotive

The automotive industry requires design and functionality. Perforated sheets are used for loudspeakers, components for the air conditioning and ventilation systems, components for the airbag, front panels for tractors and silencers. They all require precision and quality. The combination of aesthetic and functional aspects make perforated sheets an important component of the automotive industry.

## Air and water treatment

Perforated sheets, thanks to their functional characteristics, are very appreciated in the air and water treatment sector. They are used in the suction grids and in the filtration systems helping to improve the environmental comfort. The items that require perforated sheets are stoves, radiators, air conditioners and fans.



# NOTES

SCHIAVETTI Lamiera forate srl offers three kinds of products:

1. **Products on stock**, always available in our warehouse without any minimum order quantity (indicated with ●)
2. **Products available upon request** with a minimum order quantity (indicated with ▲)
3. **Customized products**, including a wide range of products based on the specifics given by the Customer for material, thickness, hole and size.

Our catalogue refers to the products identified with ● and ▲ available in the following sizes and materials:

MATERIAL	1000 x 2000	1250 x 2500	1500 x 3000
Mild steel	● ▲	● ▲	● ▲
Galvanized (Sendzmir)	● ▲	● ▲	● ▲
Stainless steel (AISI 304 – 316)	● ▲	● ▲	● ▲
Aluminium	● ▲	● ▲	● ▲

## STANDARDS

The following table gives the designations for the raw material and the types of perforation.

MATERIAL	STANDARDS REFERRING TO PERFORATED SHEETS
Mild steel	EN 10130, EN 10131, EN 10111, EN 10051, EN 10025, EN 10029
Galvanized (Sendzmir)	EN 10346, EN 10143
Stainless steel (AISI 304 – 316)	EN 10088-1/2, EN 10051, EN 10029, EN ISO 9445
Aluminium (EN AW 1050 A)	ISO 10630-7805/1-2

Standard perforated plates available as stock ● and ▲ comply to the following specifications:

- Margins on long sides: minimum (or commercial in case of sectional perforation)
- Margins on short sides: no margins (or commercial in case of sectional perforation)
- Flatness: according to commercial standard
- Tolerances on length: -0 +10 ÷15 mm
- Tolerances on width: according to EN raw material standard

Specific unperforated margins and/or unperforated areas as well as specific flatness and/or sizes tolerances must be specified upon request.

SCHIAVETTI is also able to supply additional fabrication works, such as bending, cutting, coating and others on request. For any further information on our products, please do not hesitate to contact our customer service.

# ROUND HOLES

## Perforated Sheets 1000 x 2000 mm

ROUND HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)					STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE					
R	T	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2				
0,5	1,25	•																																15%	18	
0,5	1,5																	•																10%	18	
0,6	1,5																	•																15%	19	
0,8	1,5	•																•																26%	19	
0,8	2		•																•															15%	20	
1	2	•	•	•															•	•								▲					23%	20		
1	2,2																				•													19%	21	
1,2	2,5																				•													21%	21	
1,25	2,3	▲		•																														27%	22	
1,5	2,5	•	•	•	•													•		•								▲						33%	22	
1,5	2,6																		▲															30%	22	
1,5	3			▲	•														▲	•	•						▲							23%	23	
1,75	3				▲																													31%	23	
2	2,5			▲																														58%	24	
2	3			•	▲	•													▲		▲							▲						40%	24	
2	3,5	•	•	•	•	•												•		•	•	•					•	▲						30%	25	
2	4				▲	•																													23%	26
2	4,5																					•													18%	26
2,2	2,8		▲																																56%	27
2,5	3,5					•														▲															46%	27
2,5	4			•	•	•															•	▲													35%	28
3	4		•	•	▲	•	▲												▲		▲														51%	28
3	5	▲	•	•	•	•	•											•		•	•	•	•				▲		▲					33%	29	
3	6																								•										23%	30
3,5	5					•	▲																												44%	30
4	5				▲																														58%	31
4	5,2																																		54%	31
4	6	▲	•	•	•	•	•											▲		•	•	•	•	•				▲						40%	32	
4	7																						▲	•											30%	33
4	7,7								•																										24%	33
5	6			▲																▲															63%	34
5	7			•	•	▲														•			▲	▲					▲						46%	35
5	7,5	▲																▲	▲																40%	34
5	8		•	•	•	•	•	•										•	▲	•	•	•	•	•			▲	•	•	•	▲			35%	36	
5	10									▲																									23%	37
5	U25			▲																															3%	37
6	8																				▲														51%	39
6	9		▲	•	•	•	•													•	•	•							▲					40%	38	
6	10									▲																									33%	39
6	12																					•	▲												23%	40

# ROUND HOLES

## Perforated Sheets 1000 x 2000 mm

ROUND HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)						STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE						
R	T	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2						
6,5	8												▲																								60%	41
7	9					▲																▲															55%	41
7	10			•																																	44%	42
8	9,5														▲																						64%	42
8	10																					▲															58%	43
8	11			•	•	▲									▲							▲															48%	43
8	12			▲	•	•	•	•	•	•					•	•	•				▲	•	•	•			▲				▲						40%	44
8	14									•																											30%	45
8	15										▲																										26%	45
10	14			•	•	•									▲	•	▲																				46%	47
10	15			•	•	•	•	•	•						•	•	•					•	•	•			▲	▲	▲		▲						40%	46
10	16										▲																										35%	47
10	17										•																										31%	48
10	20											•																									23%	48
12	16			•	•	•	•															•	▲														51%	49
12	18				▲			▲	▲	▲																											40%	49
12	20										▲	▲																									33%	50
15	20			•	•	•	•										▲	▲					•	▲													51%	50
15	23							•	•																												39%	51
20	28			▲	•	•	•	•	•								▲	▲					•	▲							▲						46%	52
20	30										▲																										40%	51
25	35					•																	▲														46%	53
30	40					•																	▲														51%	53

### Legenda

- Products on stock
- ▲ Products upon request
- ▲ Products upon request for kind of material

# ROUND HOLES

## Perforated Sheets 1250 x 2500 mm

ROUND HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)					STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE																									
R	T	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2																								
1,5	2,5			▲																																																			33%	22
2	3,5			•	▲											▲																																▲							30%	25
3	5			•	•	•							•	▲	•	•	▲																															▲	▲	▲					33%	29
4	6			•	•	▲	▲									•	•																															▲							40%	32
5	7			▲												▲																																							46%	35
5	8			•	•	•	•								•	▲	•	•																														▲	▲	▲					35%	36
6	8															▲																																							51%	39
6	9			▲	•	•	▲									•	•	•																																					40%	38
6	15,6																																																						13%	40
7	9					▲																																																	55%	41
8	12			•	•	•	▲										•	•																																					40%	44
10	14				▲	▲											▲	▲																																					46%	47
10	15			•	•	•	•									•	•	•																																					40%	46
12	16				▲																																																		51%	49
15	20				▲	•																																																	51%	50
20	28				▲	•																																																	46%	52

## Perforated Sheets 1500 x 3000 mm

ROUND HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)					STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE																									
R	T	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2																								
2	3,5															▲																																							30%	25
3	5			▲	▲	▲										•	•																																						33%	29
4	6			•	•											▲																																							40%	32
5	7															•	▲																																						46%	35
5	8			•	•	•										•	•	•																																					35%	36
6	9				▲	▲											▲	▲																																					40%	38
8	12				▲	▲										▲	▲																																						40%	44
10	14				▲																																																		46%	47
10	15				•	•										▲	•	•																																					40%	46
12	16				▲																																																		51%	49
20	28					▲																																																	46%	52

### Legenda

- Products on stock
- ▲ Products upon request
- ▲ Products upon request for kind of material

# SQUARE HOLES

## Perforated Sheets 1000 x 2000 mm

SQUARE HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)						STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE			
C	U	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2			
5	7	▲		•	•															•	•												51%	55	
5	7,5			▲																	▲								▲	▲			44%	55	
5	8			•	•																▲												39%	56	
8	10			•	•																▲												64%	56	
8	12			•	•	•																▲	▲										44%	57	
10	12			•	•	▲																•	•	▲					▲				69%	58	
10	12,5																																64%	57	
10	14			•	•																	•												51%	60
10	15			•	•	•	▲															•	•						▲				44%	59	
15	20				•	▲																											56%	60	
20	25				▲																													64%	61
20	40				•																													25%	61
30	60				•																													25%	62
40	80				•																													25%	62

## Perforated Sheets 1250 x 2500 mm

SQUARE HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)						STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE				
C	U	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2				
5	7			▲																														51%	55	
5	8				▲																														39%	56
8	10			▲																															64%	56
8	12			▲	▲	•																•													44%	57
10	12				▲	▲																•	▲												69%	58
10	14				▲																														51%	60
10	15			▲	•	•	▲																▲	•	•										44%	59
15	20				▲																														56%	60

## Perforated Sheets 1500 x 3000 mm

SQUARE HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)						STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE					
C	U	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2					
10	15				•	▲																														44%	59

# SLOT HOLES

## Perforated Sheets 1000 x 2000 mm

SLOT HOLES		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)				STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE												
LR	Z	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2										
4x20	16x25			•																																					38%	64
5x20	20x25				▲																												38%	64								

# DECORATIVE – FORTOP HOLES

## Perforated Sheets 1000 x 2000 mm

DECORATIVE FORTOP		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)				STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE												
FS	U	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2										
8	9			•																													•								37%	66
9	16	▲		•																																					34%	66
9	Z17																																▲								38%	67
19	15																																▲								41%	67
45	20			•																													▲	▲	▲						44%	68
FR	LL				▲																																				18%	69
FR	LC			•																																					18%	69

# ADERSTOP

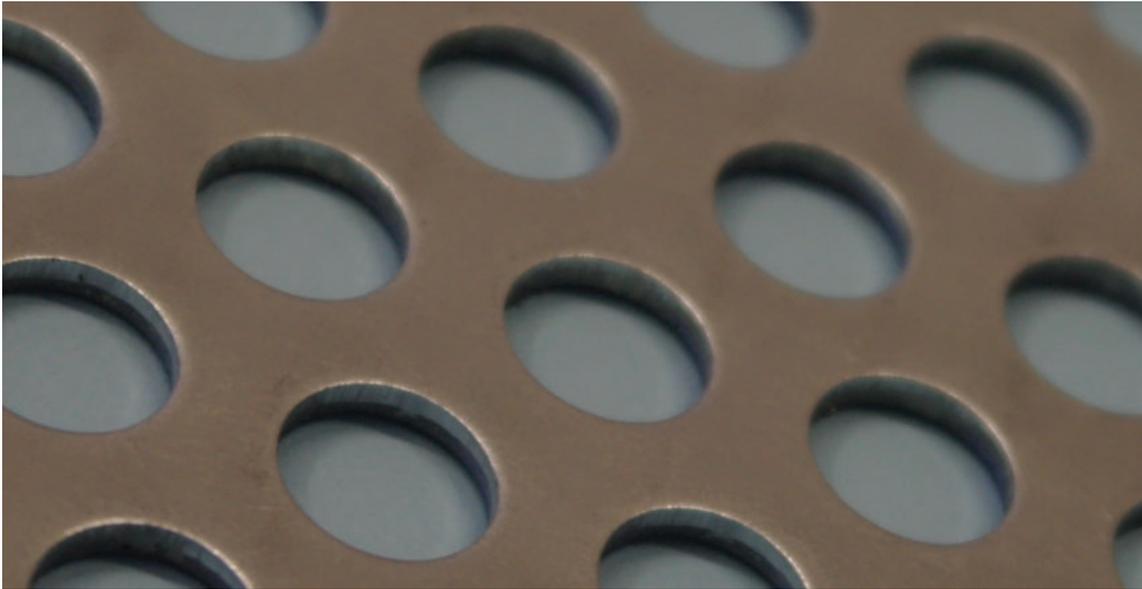
## Perforated Sheets 1000 x 2000 mm

ADERSTOP		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)				STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE																				
R	U	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2																		
8	30						•																	•																									5%	71

## Perforated Sheets 1250 x 2500 mm

ADERSTOP		MILD STEEL										GALVANIZED (Sendzimir)					STAINLESS STEEL (AISI 304)				STAINLESS STEEL (AISI 316)				ALUMINIUM				OPEN AREA	PAGE																				
R	U	0,5	0,75	1	1,5	2	3	4	5	6	8	10	0,5	0,75	1	1,5	2	0,5	0,6	0,8	1	1,5	2	3	0,8	1	1,5	2	0,8	1	1,5	2																		
8	30						•																																										5%	71

# ROUND HOLES

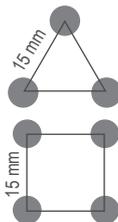


## Shape and size of holes



**R 10 – Round** - Symbol **R** followed by diameter of hole

## Arrangement and pitch of holes



**T 15 – 60° Staggered pitch** - Symbol **T** followed by pitch = 15 mm

**U 15 – 90° Square pitch** - Symbol **U** followed by pitch = 15 mm

Round holes are usually ordered with arrangement 60° staggered pitch, since it is characterised by a high rigidity of the perforated metal even with a tolerable open area.

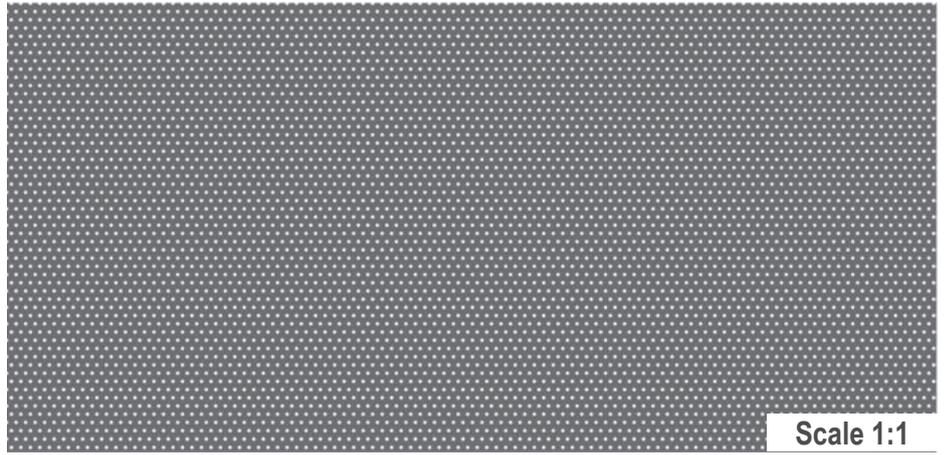
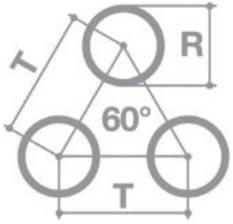
It is available upon request the arrangement with square pitch, usually indicated for commercial furniture, exhibitor panels and aesthetic uses (false ceilings, building facades, etc.)

**Perforated sheets with round holes** are the most used among the perforated products both for their functionality and for aesthetic use. Round holes are usually very resistant.

They can be produced in the most common metallic materials, starting from 0,5 mm diameter.

# R 0,5

## T 1,25



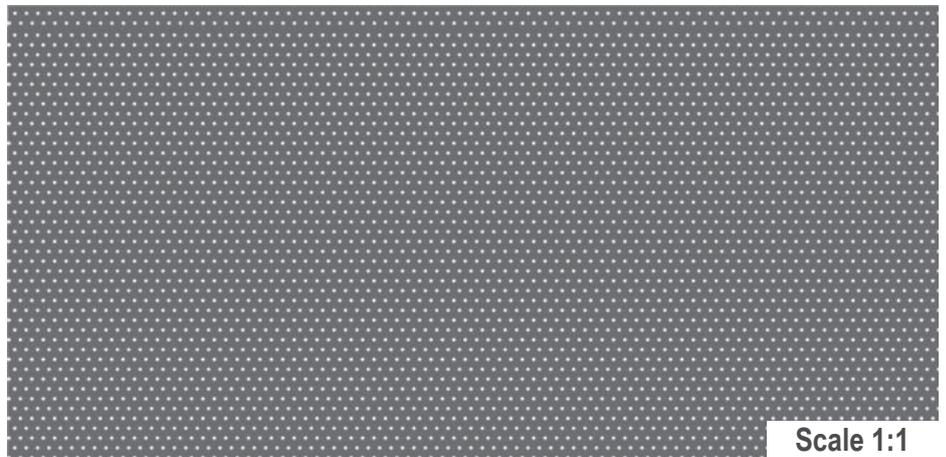
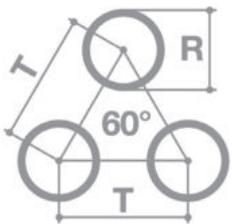
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 15%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,5

# R 0,5

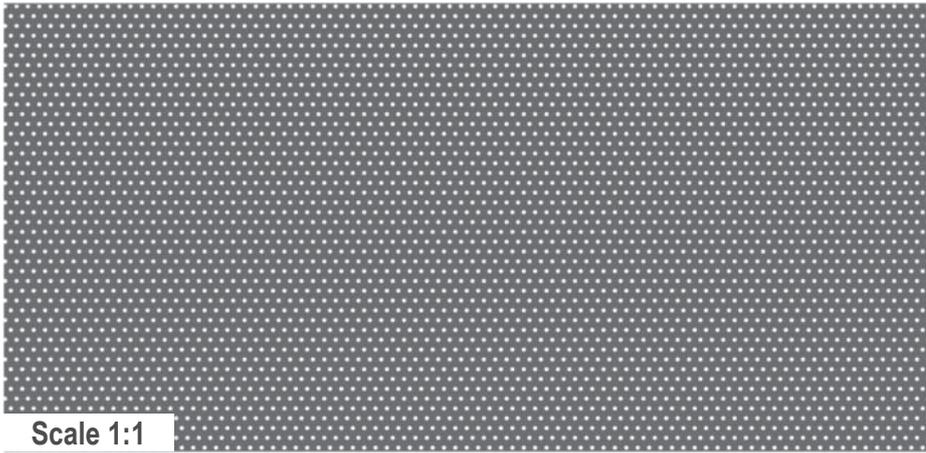
## T 1,5



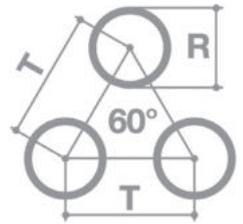
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 10%

Materials	Size (mm)	Thickness (mm)
Stainless steel (AISI 304)	1000 x 2000	0,5

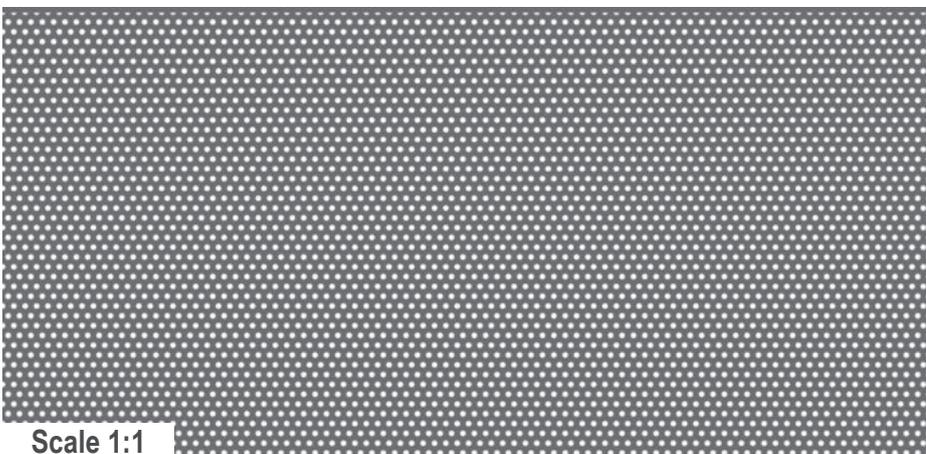


**R 0,6**  
**T 1,5**

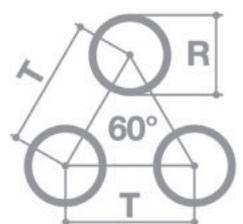


**ROUND HOLES STAGGERED 60° - OPEN AREA 15%**

Materials	Size (mm)	Thickness (mm)
Stainless steel (AISI 304)	1000 x 2000	0,5



**R 0,8**  
**T 1,5**

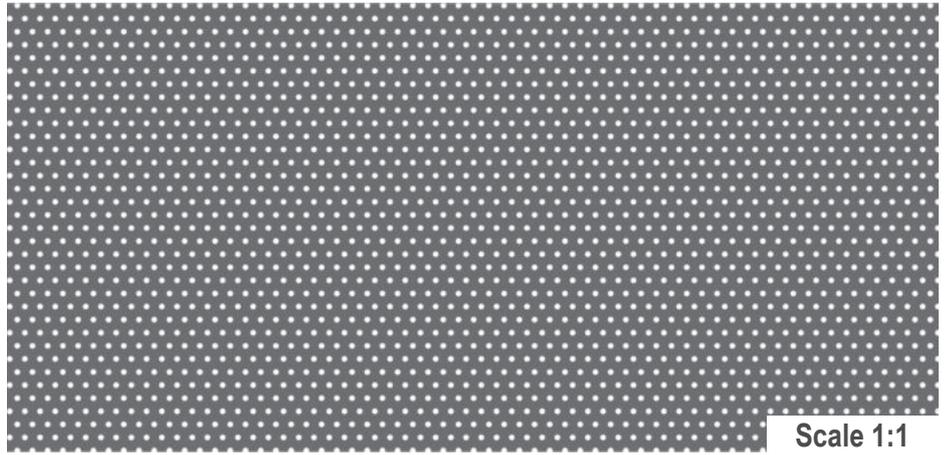
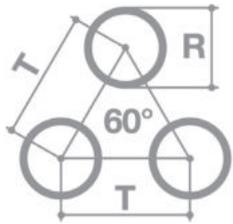


**ROUND HOLES STAGGERED 60° - OPEN AREA 26%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,5
Stainless steel (AISI 304)	1000 x 2000	0,5

# R 0,8

## T 2



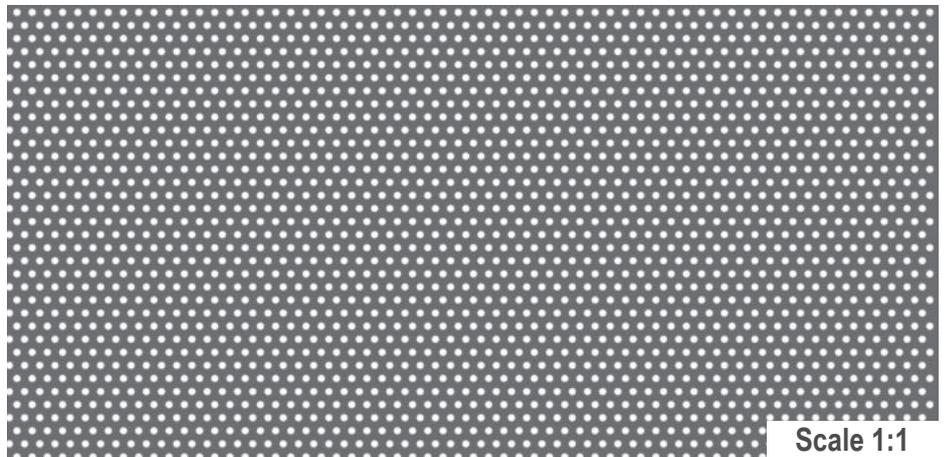
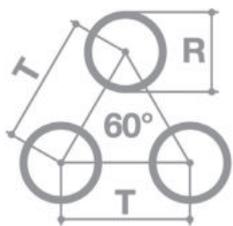
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 15%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,75
Stainless steel (AISI 304)	1000 x 2000	0,8

# R 1

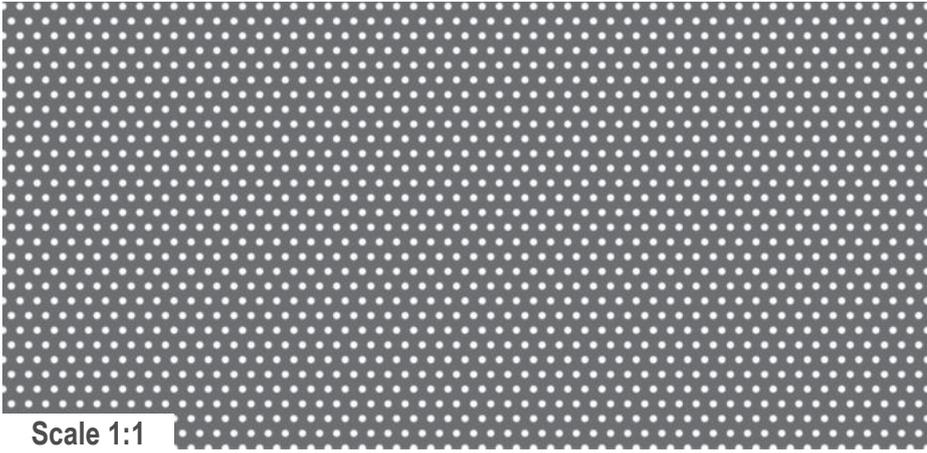
## T 2



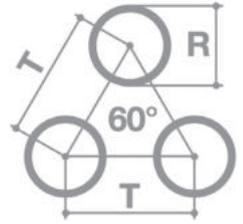
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 23%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,5 - 0,75 - 1
▲ Galvanized (Sendzimir)	1000 x 2000	1
Stainless steel (AISI 304)	1000 x 2000	0,5 - 0,8
▲ Aluminium	1000 x 2000	1

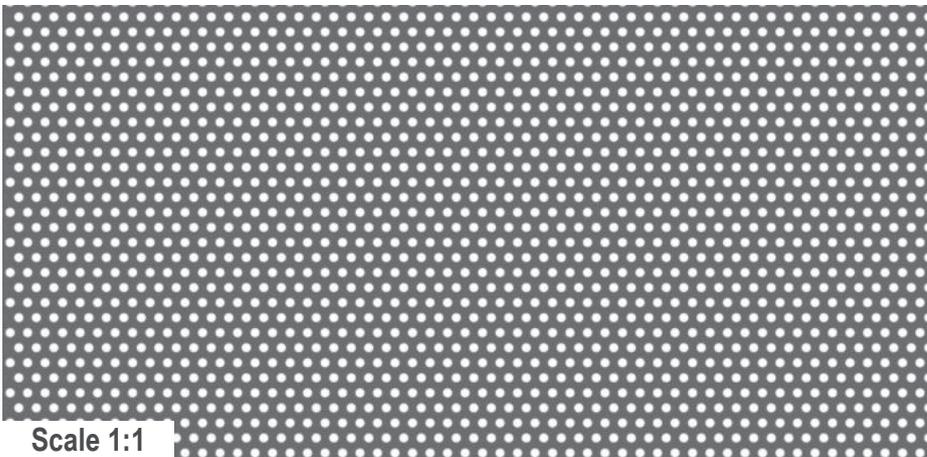


R 1  
T 2,2

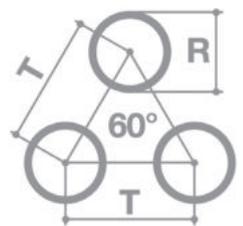


**ROUND HOLES STAGGERED 60° - OPEN AREA 19%**

Materials	Size (mm)	Thickness (mm)
Stainless steel (AISI 304)	1000 x 2000	1



R 1,2  
T 2,5

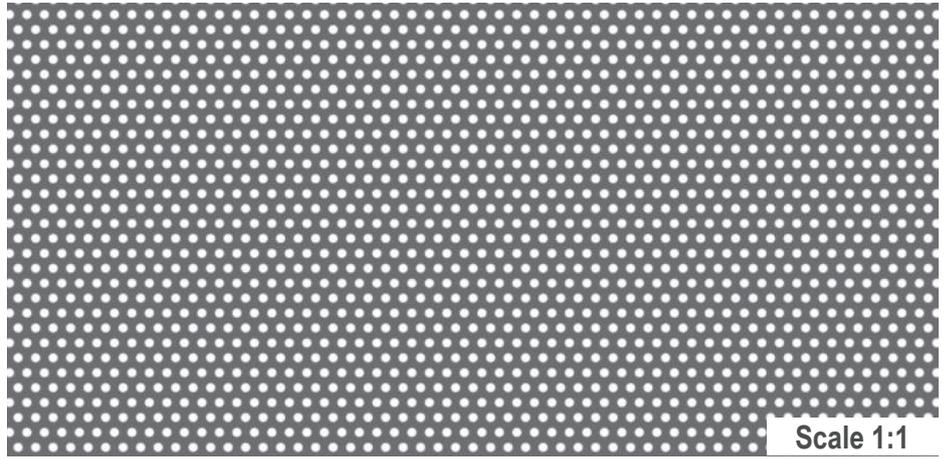
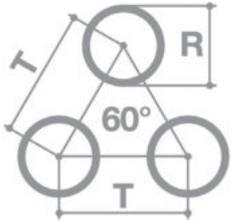


**ROUND HOLES STAGGERED 60° - OPEN AREA 21%**

Materials	Size (mm)	Thickness (mm)
Stainless steel (AISI 304)	1000 x 2000	1

# R 1,25

## T 2,3

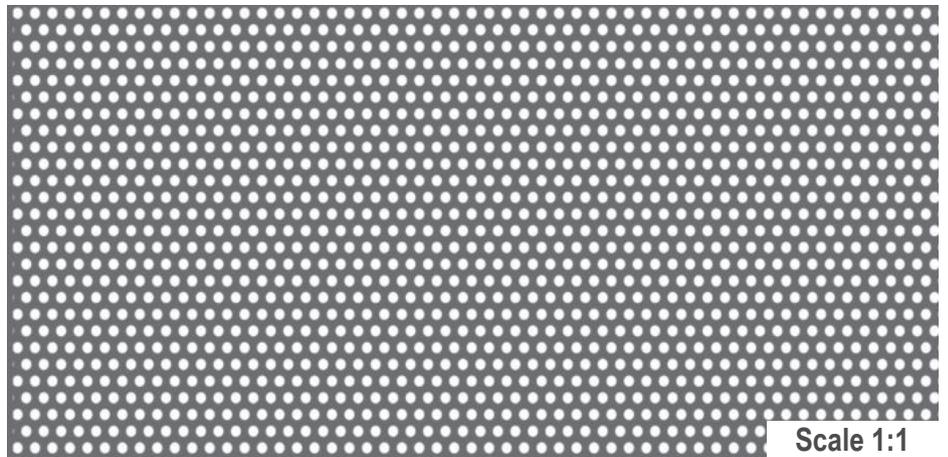
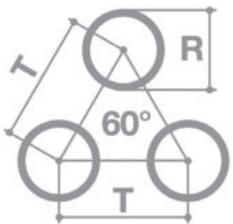


### ROUND HOLES STAGGERED 60° - OPEN AREA 27%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,5
Mild steel	1000 x 2000	1

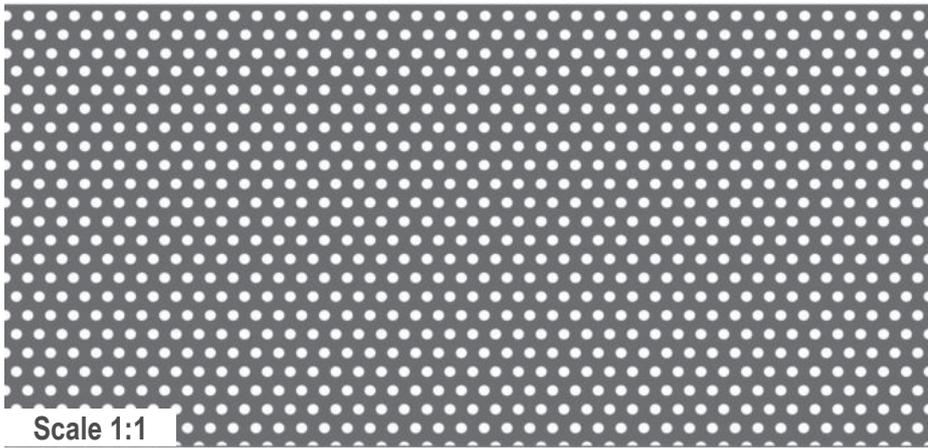
# R 1,5

## T 2,5 – T 2,6

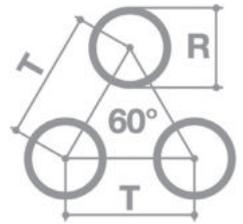


### ROUND HOLES STAGGERED 60° - OPEN AREA 33%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,5 – 0,75 – 1 – 1,5
▲ Mild steel	1250 x 2500	1
Stainless steel (AISI 304)	1000 x 2000	0,5 – 1
▲ Aluminium	1000 x 2000	1
▲ Stainless steel (AISI 304) T 2,6	1000 x 2000	0,8
▲ Stainless steel (AISI 316) T 2,6	1000 x 2000	0,8

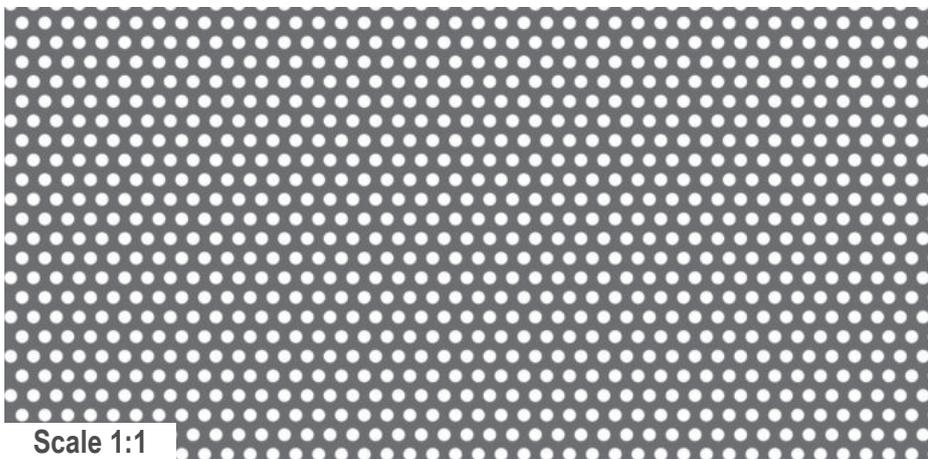


R 1,5  
T 3

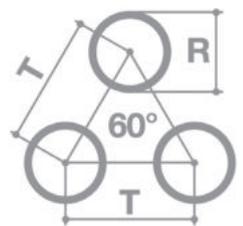


**ROUND HOLES STAGGERED 60° - OPEN AREA 23%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1
Mild steel	1000 x 2000	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	0,8
Stainless steel (AISI 304)	1000 x 2000	1 – 1,5
▲ Aluminium	1000 x 2000	0,8



R 1,75  
T 3

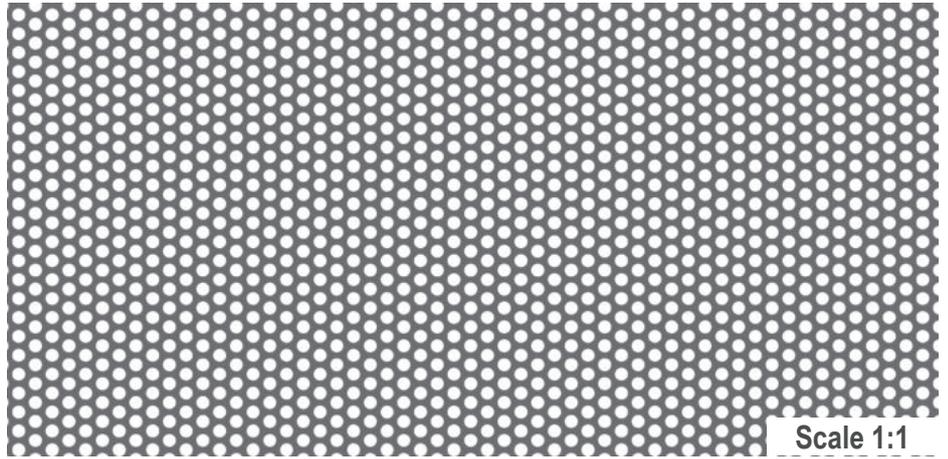
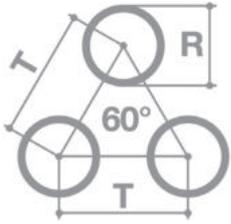


**ROUND HOLES STAGGERED 60° - OPEN AREA 31%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1,5

# R 2

## T 2,5

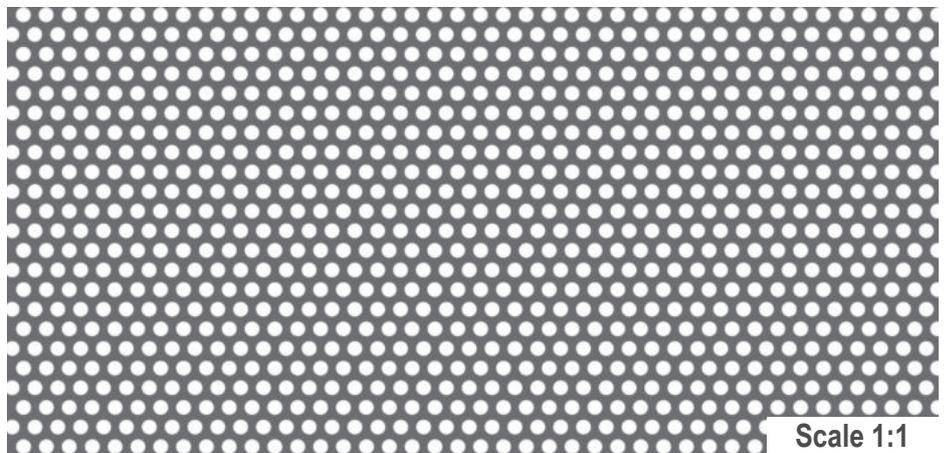
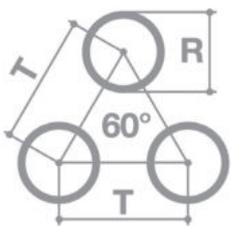


### ROUND HOLES STAGGERED 60° - OPEN AREA 58%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1

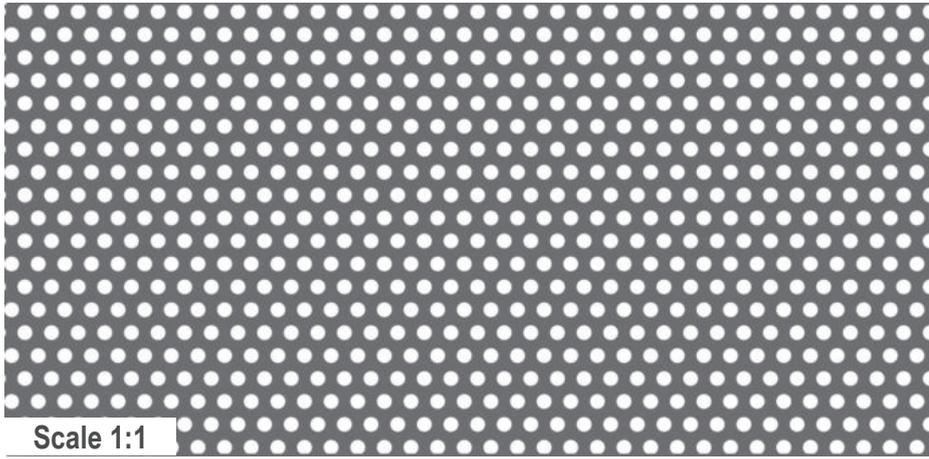
# R 2

## T 3

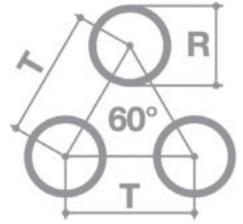


### ROUND HOLES STAGGERED 60° - OPEN AREA 40%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 2
▲ Mild steel	1000 x 2000	1,5
▲ Galvanized (Sendzimir)	1000 x 2000	1
▲ Stainless steel (AISI 304)	1000 x 2000	1
▲ Aluminium	1000 x 2000	1



R 2  
T 3,5

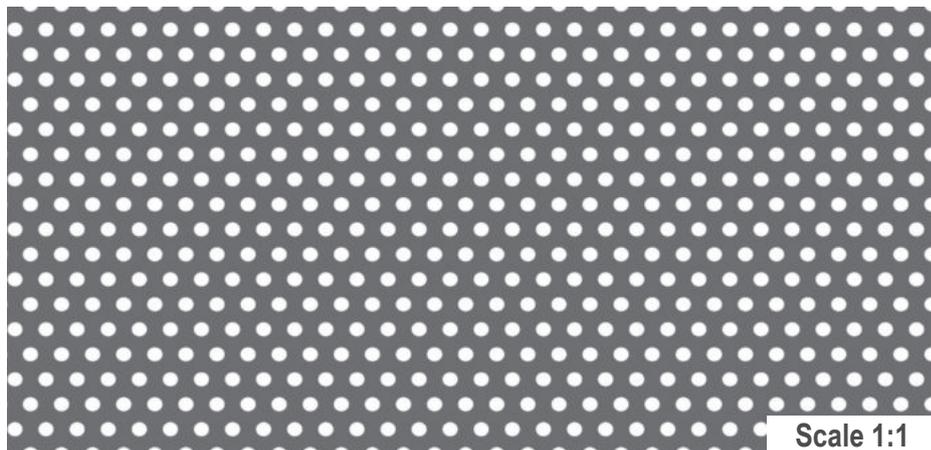
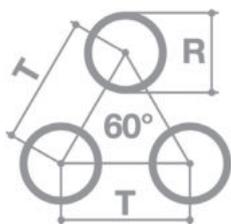


## ROUND HOLES STAGGERED 60° - OPEN AREA 30%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,5 – 0,75 – 1 – 1,5 – 2
Mild steel	1250 x 2500	1
▲ Mild steel	1250 x 2500	1,5
Galvanized (Sendzimir)	1000 x 2000	1
▲ Galvanized (Sendzimir)	1000 x 2000	1,5
▲ Galvanized (Sendzimir)	1500 x 3000	1
▲ Galvanized (Sendzimir) Z275	1250 x 2500	1,5
Stainless steel (AISI 304)	1000 x 2000	0,5 – 0,8 – 1 – 1,5
▲ Stainless steel (AISI 304)	1250 x 2500	1
Aluminium	1000 x 2000	1
▲ Aluminium	1000 x 2000	1,5
▲ Aluminium	1250 x 2500	1

# R 2

## T 4



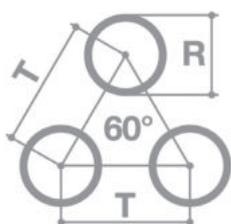
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 23%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1,5
Mild steel	1000 x 2000	2

# R 2

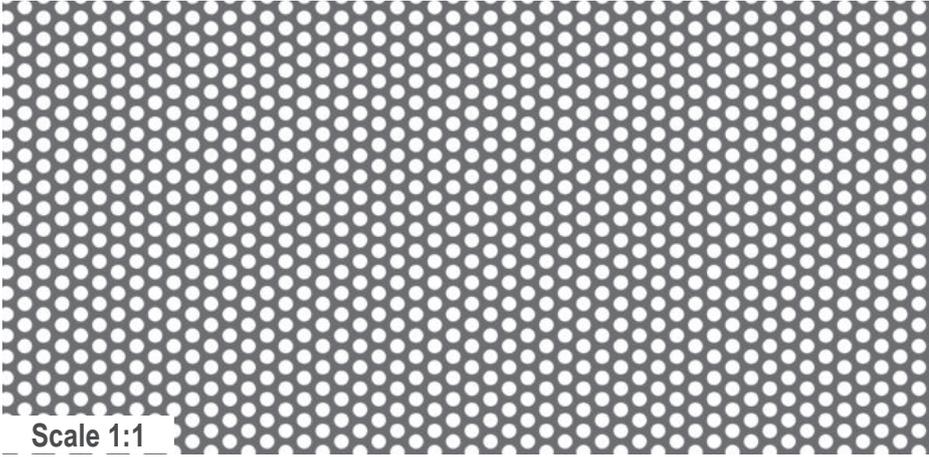
## T 4,5



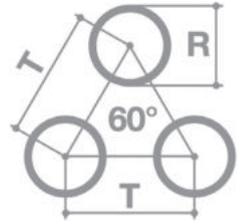
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 18%

Materials	Size (mm)	Thickness (mm)
Stainless steel (AISI 304)	1000 x 2000	2

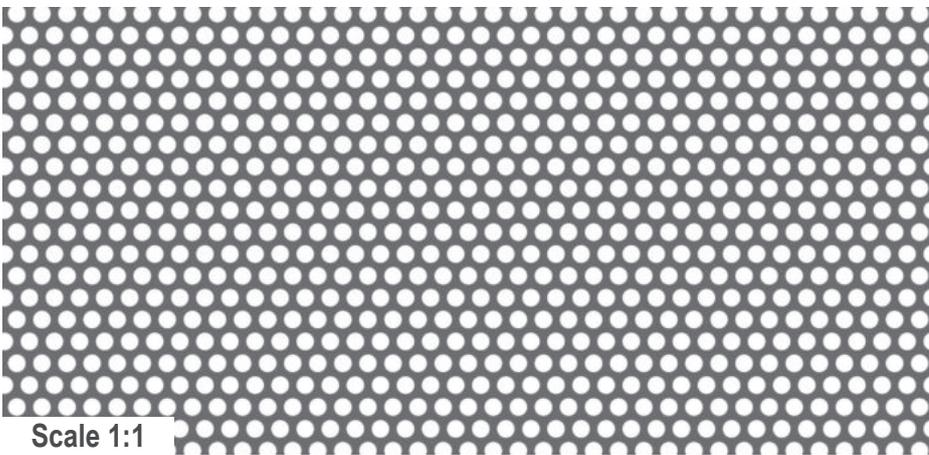


**R 2,2**  
**T 2,8**

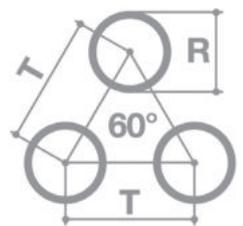


**ROUND HOLES STAGGERED 60° - OPEN AREA 56%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,75



**R 2,5**  
**T 3,5**

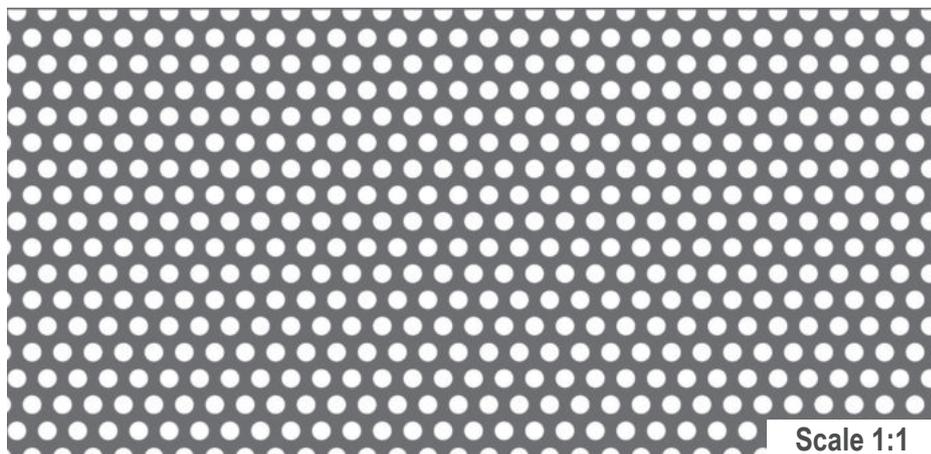
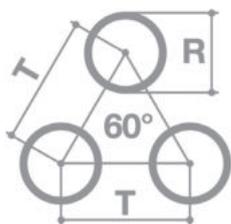


**ROUND HOLES STAGGERED 60° - OPEN AREA 46%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	2
▲ Stainless steel (AISI 304)	1000 x 2000	0,8

# R 2,5

## T 4

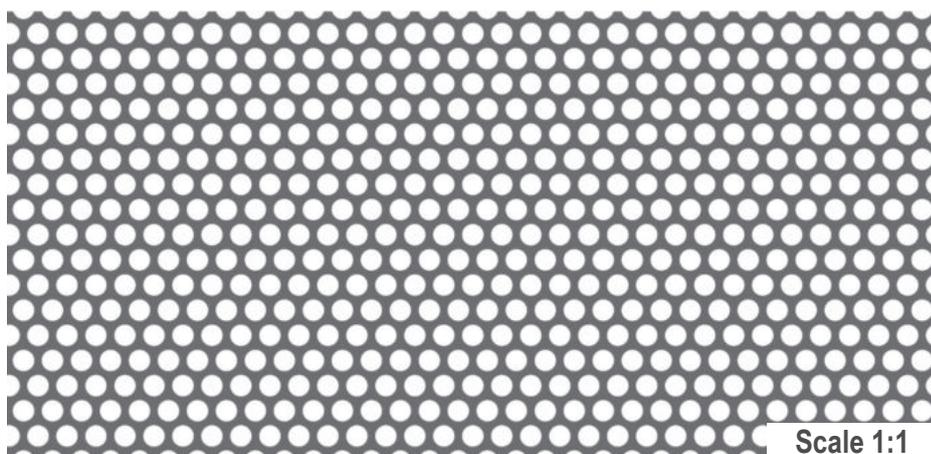
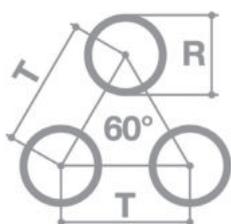


### ROUND HOLES STAGGERED 60° - OPEN AREA 35%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2
Stainless steel (AISI 304)	1000 x 2000	1
▲ Stainless steel (AISI 304)	1000 x 2000	1,5

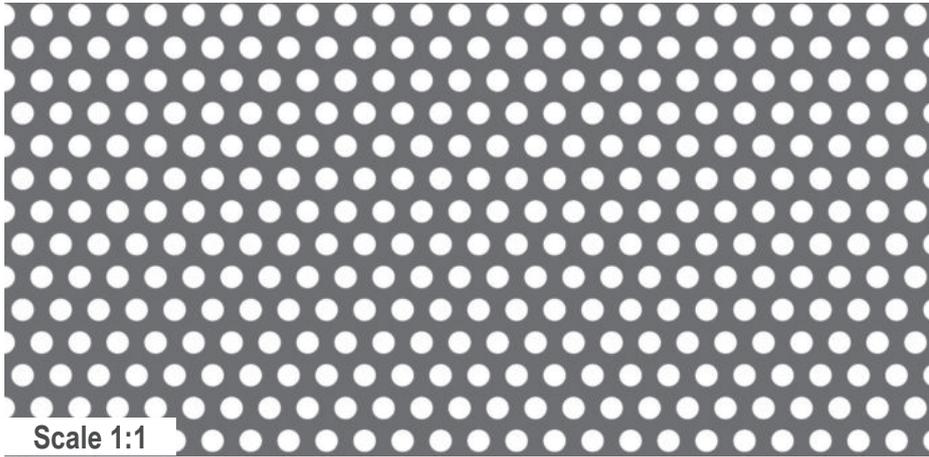
# R 3

## T 4



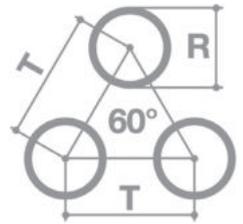
### ROUND HOLES STAGGERED 60° - OPEN AREA 51%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,75 – 1 – 2
▲ Mild steel	1000 x 2000	3
▲ Mild steel DC04	1000 x 2000	1
▲ Stainless steel (AISI 304)	1000 x 2000	0,5 – 1



# R 3

## T 5

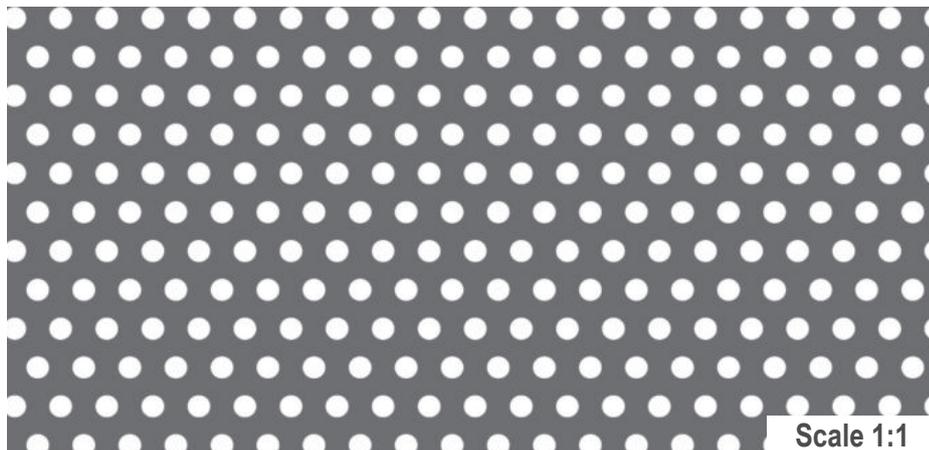
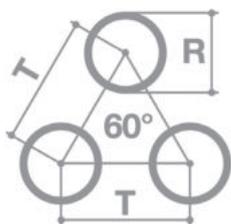


### ROUND HOLES STAGGERED 60° - OPEN AREA 33%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,5
Mild steel	1000 x 2000	0,75 - 1 - 1,5 - 2 - 3
Mild steel	1250 x 2500	1 - 1,5 - 2
▲ Mild steel	1500 x 3000	1 - 1,5 - 2
Galvanized (Sendzimir)	1000 x 2000	0,5 - 0,75 - 1 - 1,5 - 2
Galvanized (Sendzimir)	1250 x 2500	0,75 - 1 - 1,5
▲ Galvanized (Sendzimir) Z275	1250 x 2500	0,75
▲ Galvanized (Sendzimir)	1250 x 2500	2
Galvanized (Sendzimir)	1500 x 3000	1 - 1,5
Stainless steel (AISI 304)	1000 x 2000	0,5 - 0,8 - 1 - 1,5 - 2
Stainless steel (AISI 304)	1250 x 2500	1 - 1,5
▲ Stainless steel (AISI 304)	1500 x 3000	1 - 1,5
▲ Stainless steel (AISI 316)	1000 x 2000	0,8 - 2
▲ Stainless steel (AISI 430)	1250 x 2500	0,8
Aluminium	1000 x 2000	1 - 1,5
▲ Aluminium	1000 x 2000	2
▲ Aluminium	1250 x 2500	1 - 1,5 - 2

# R 3

## T 6

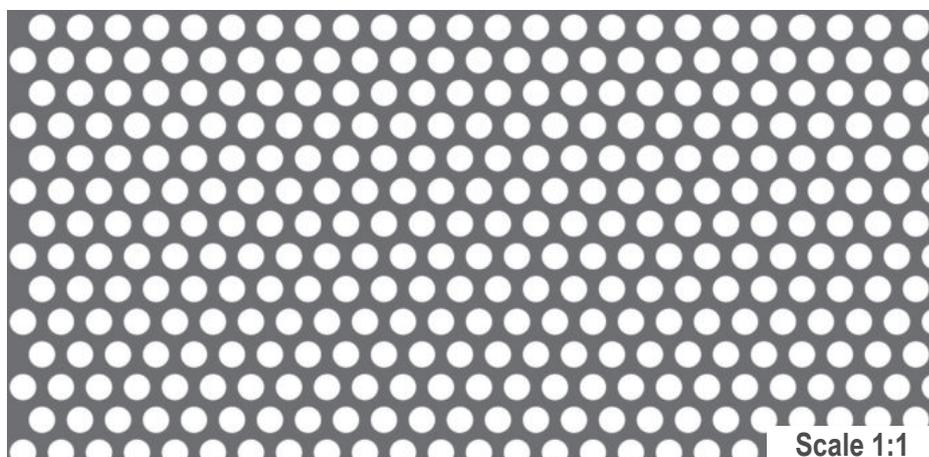
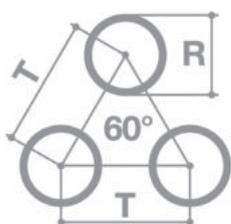


### ROUND HOLES STAGGERED 60° - OPEN AREA 23%

Materials	Size (mm)	Thickness (mm)
Stainless steel (AISI 304)	1000 x 2000	3

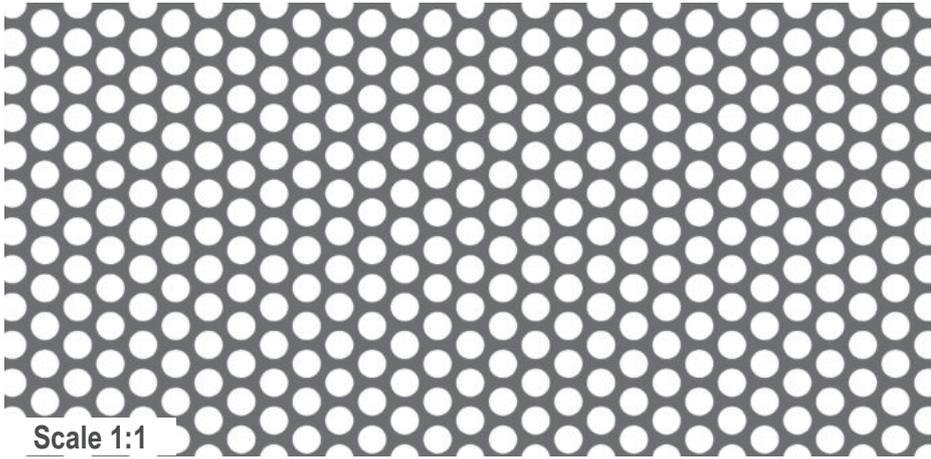
# R 3,5

## T 5

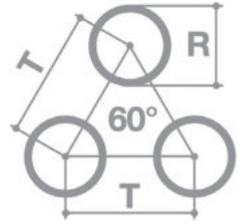


### ROUND HOLES STAGGERED 60° - OPEN AREA 44%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	2
▲ Mild steel	1000 x 2000	3

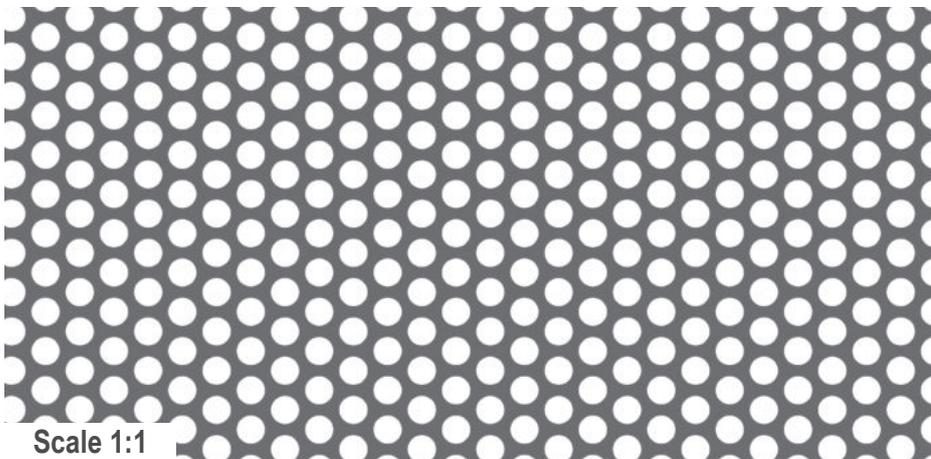


R 4  
T 5

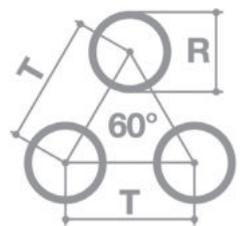


**ROUND HOLES STAGGERED 60° - OPEN AREA 58%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1,5
▲ Mild steel DC04	1000 x 2000	1,5



R 4  
T 5,2

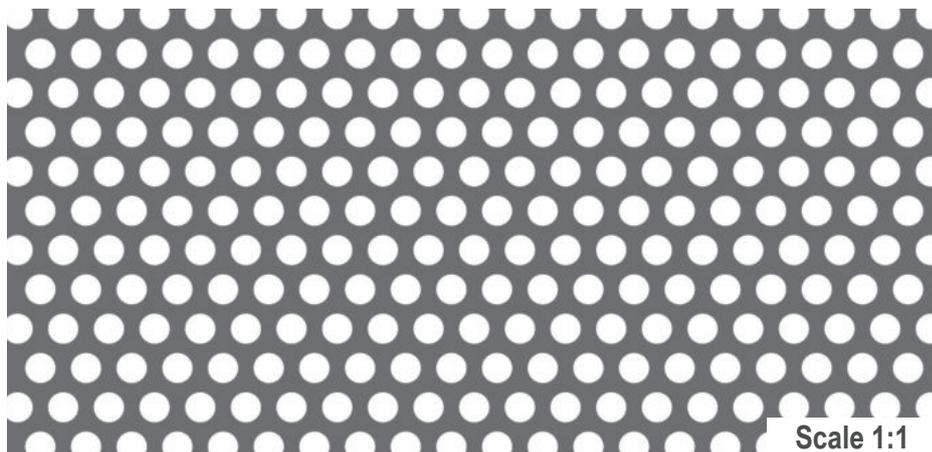
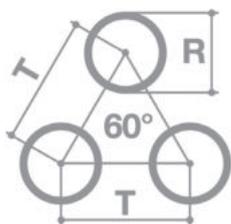


**ROUND HOLES STAGGERED 60° - OPEN AREA 54%**

Materials	Size (mm)	Thickness (mm)
▲ Aluminium	1000 x 2000	1

# R 4

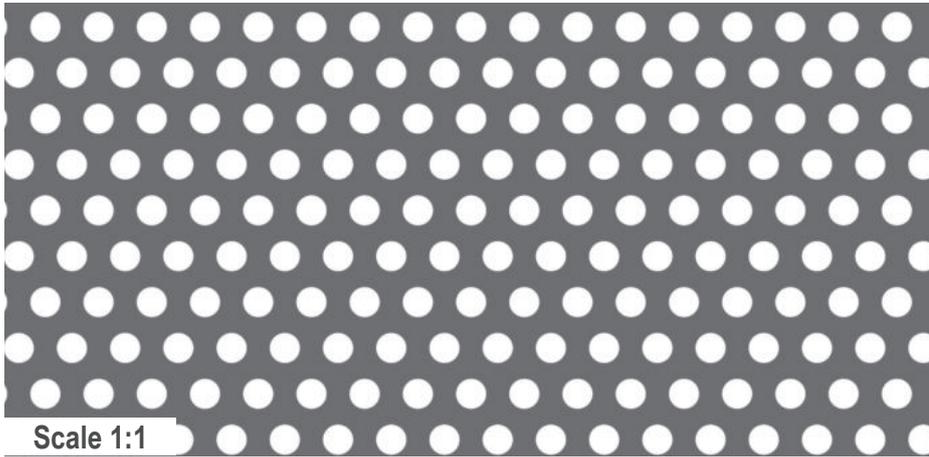
# T 6



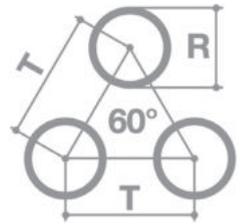
Scale 1:1

## ROUND HOLES STAGGERED 60° - OPEN AREA 40%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,5
Mild steel	1000 x 2000	0,75 – 1 – 1,5 – 2 – 3
Mild steel	1250 x 2500	1 – 1,5
▲ Mild steel	1250 x 2500	2 – 3
Mild steel	1500 x 3000	1 – 1,5
▲ Galvanized (Sendzimir)	1000 x 2000	0,5
Galvanized (Sendzimir)	1000 x 2000	0,75 – 1 – 1,5 – 2
Galvanized (Sendzimir)	1250 x 2500	1 – 1,5
▲ Galvanized (Sendzimir)	1500 x 3000	1
Stainless steel (AISI 304)	1000 x 2000	0,5 – 0,8 – 1 – 1,5 – 2
▲ Stainless steel (AISI 304)	1250 x 2500	1
▲ Stainless steel (AISI 316)	1000 x 2000	1,5
Aluminium	1000 x 2000	1
▲ Aluminium	1000 x 2000	2
▲ Aluminium	1250 x 2500	1

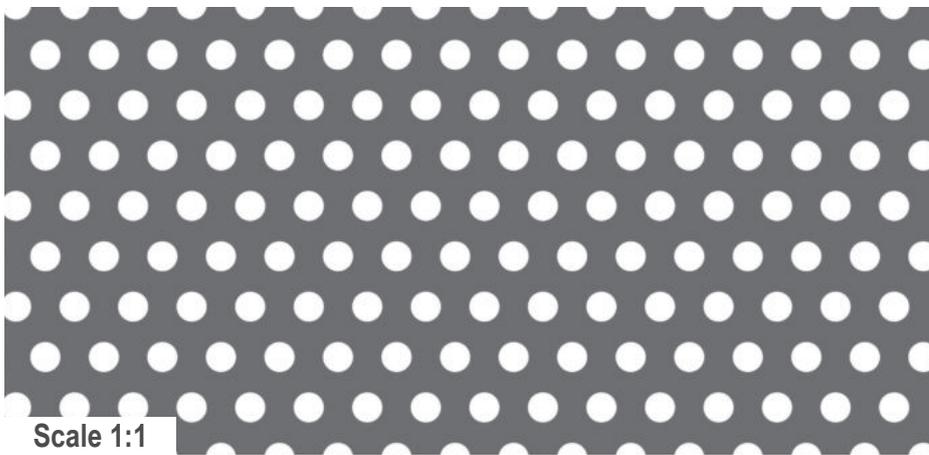


R 4  
T 7

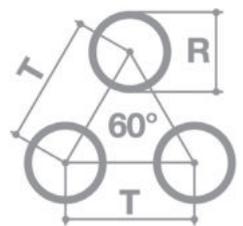


**ROUND HOLES STAGGERED 60° - OPEN AREA 30%**

Materials	Size (mm)	Thickness (mm)
▲ Stainless steel (AISI 304)	1000 x 2000	2
Stainless steel (AISI 304)	1000 x 2000	3



R 4  
T 7,7

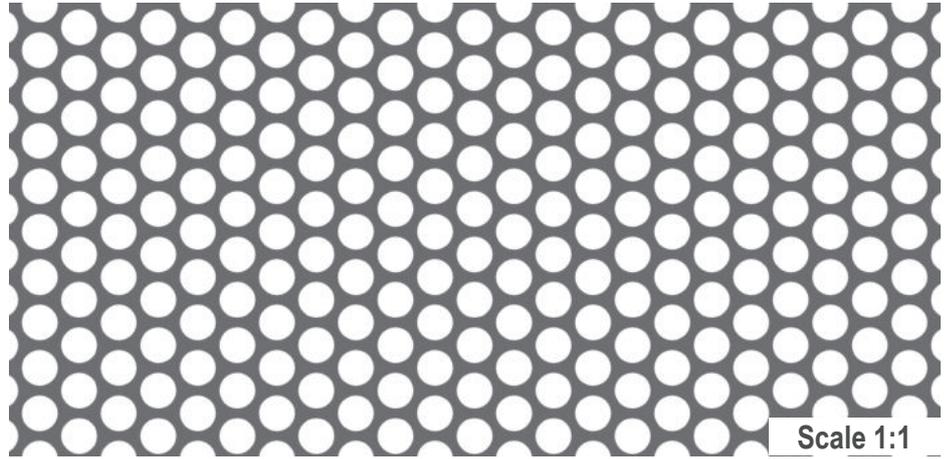
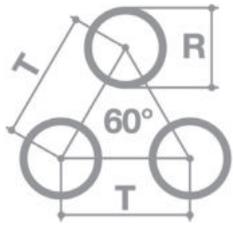


**ROUND HOLES STAGGERED 60° - OPEN AREA 24%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	4

# R 5

## T 6

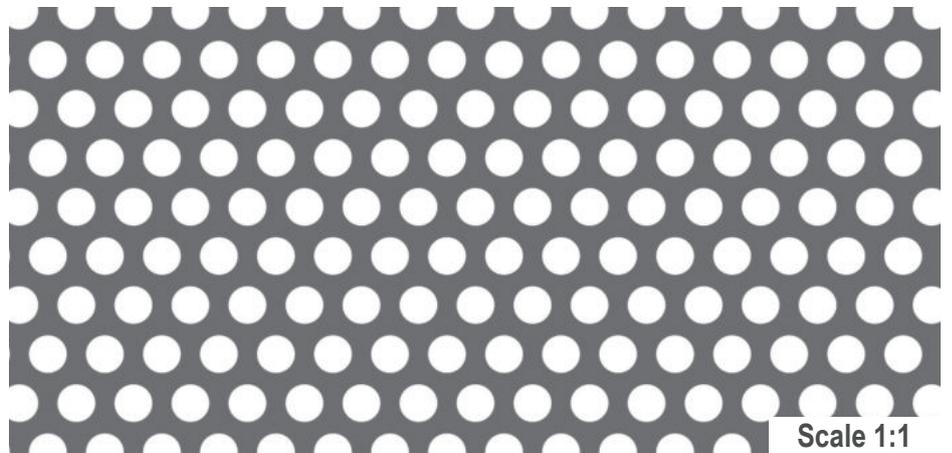
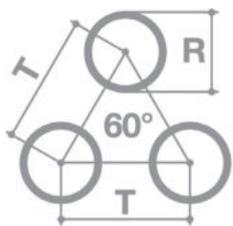


### ROUND HOLES STAGGERED 60° - OPEN AREA 63%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1
▲ Galvanized (Sendzimir)	1000 x 2000	1

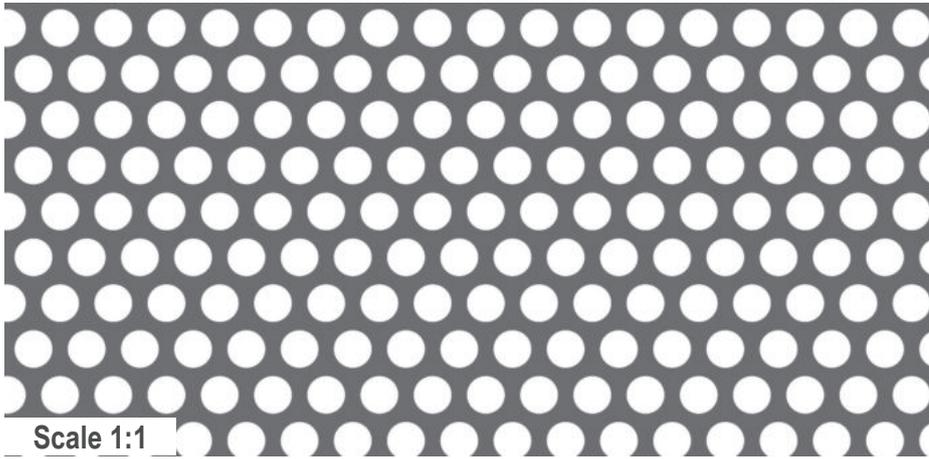
# R 5

## T 7,5

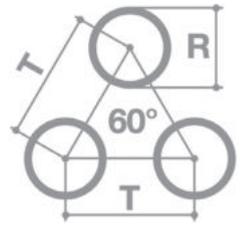


### ROUND HOLES STAGGERED 60° - OPEN AREA 40%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,5
▲ Galvanized (Sendzimir)	1000 x 2000	0,5
▲ Stainless steel (AISI 304)	1000 x 2000	0,5 – 0,6



R 5  
T 7

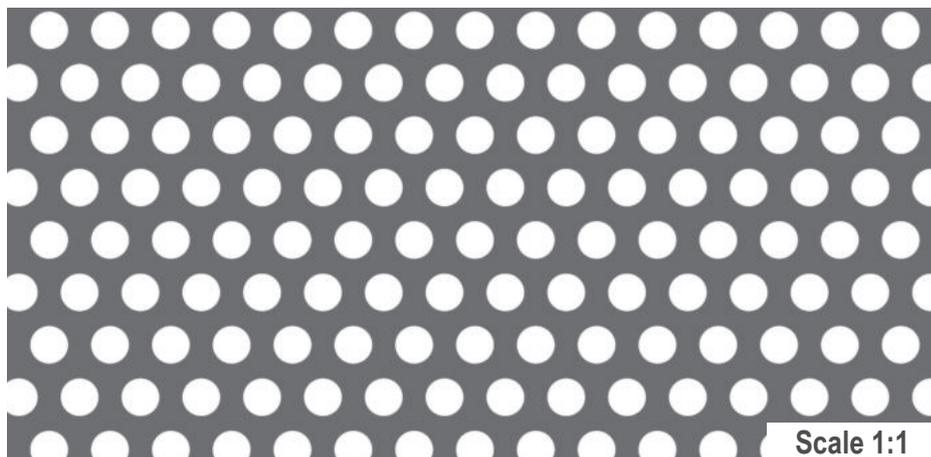
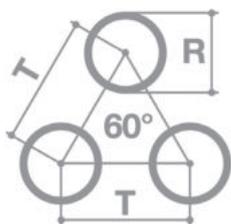


## ROUND HOLES STAGGERED 60° - OPEN AREA 46%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1000 x 2000	2
▲ Mild steel	1250 x 2500	1
Galvanized (Sendzimir)	1000 x 2000	1
▲ Galvanized (Sendzimir)	1250 x 2500	1
Galvanized (Sendzimir)	1500 x 3000	1
▲ Galvanized (Sendzimir)	1500 x 3000	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	1 – 1,5
▲ Aluminium	1000 x 2000	1

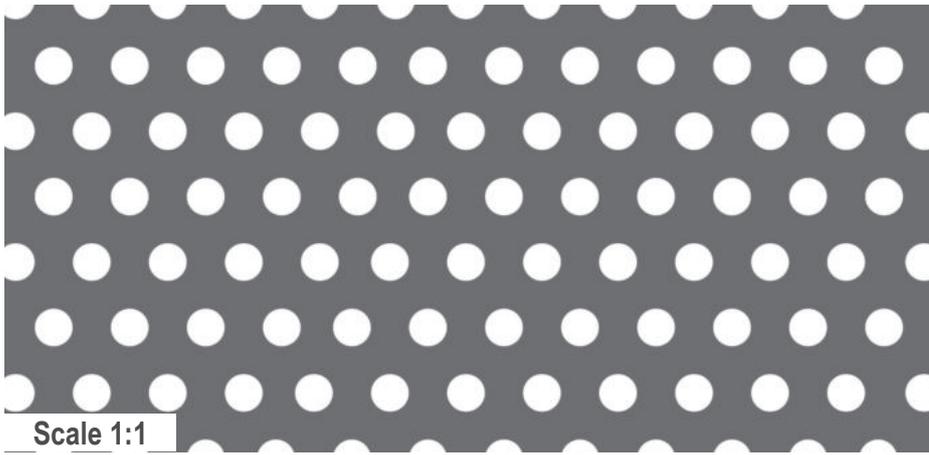
# R 5

# T 8



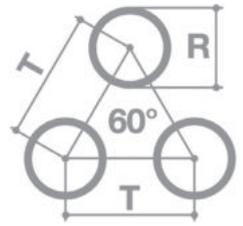
## ROUND HOLES STAGGERED 60° - OPEN AREA 35%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,75 – 1 – 1,5 – 2 – 3 – 4
Mild steel	1250 x 2500	1 – 1,5 – 2 – 3
Mild steel	1500 x 3000	1 – 1,5 – 2
Galvanized (Sendzimir)	1000 x 2000	0,75 – 1 – 1,5 – 2
▲ Galvanized (Sendzimir) Z275	1000 x 2000	0,75 – 1
Galvanized (Sendzimir)	1250 x 2500	0,75 – 1 – 1,5 – 2
Galvanized (Sendzimir)	1500 x 3000	1 – 1,5 – 2
Stainless steel (AISI 304)	1000 x 2000	0,8 – 1 – 1,5 – 2 – 3
Stainless steel (AISI 304)	1250 x 2500	1 – 1,5
▲ Stainless steel (AISI 304)	1500 x 3000	1 – 1,5
▲ Stainless steel (AISI 316)	1000 x 2000	0,8
Stainless steel (AISI 316)	1000 x 2000	1 – 1,5
▲ Aluminium	1000 x 2000	0,8 – 2
Aluminium	1000 x 2000	1 – 1,5
▲ Aluminium	1250 x 2500	1 – 1,5 – 2



R 5

T 10



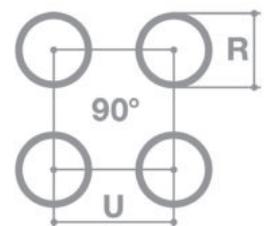
**ROUND HOLES STAGGERED 60° - OPEN AREA 23%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	5



R 5

U 25

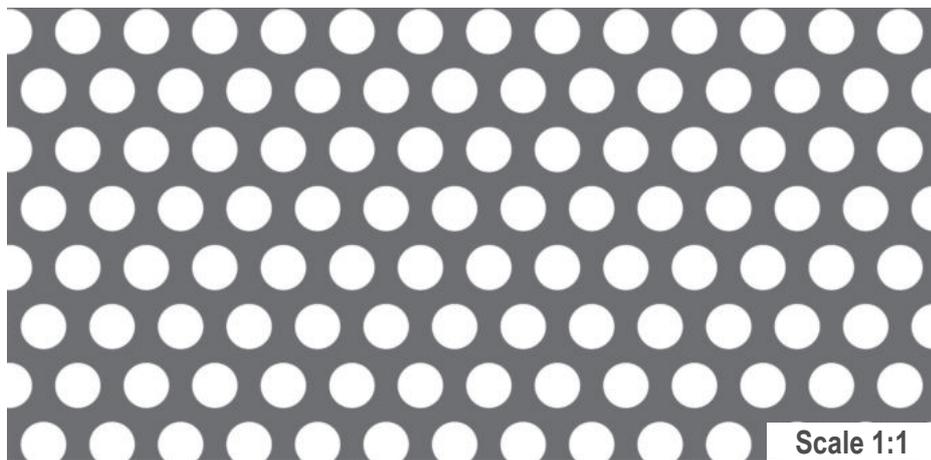
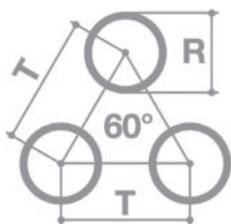


**ROUND HOLES SQUARED 90° - OPEN AREA 3%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1

# R 6

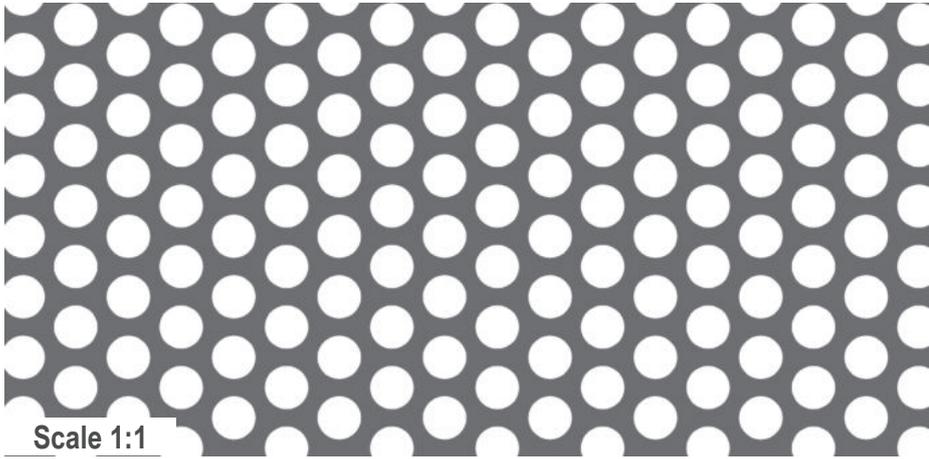
# T 9



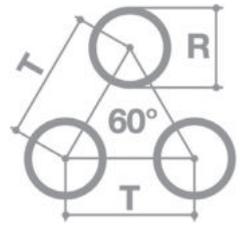
Scale 1:1

## ROUND HOLES STAGGERED 60° - OPEN AREA 40%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,75
Mild steel	1000 x 2000	1 – 1,5 – 2 – 3
▲ Mild steel	1250 x 2500	1 – 3
Mild steel	1250 x 2500	1,5 – 2
▲ Mild steel	1500 x 3000	1,5 – 2
Galvanized (Sendzimir)	1000 x 2000	1 – 1,5 – 2
Galvanized (Sendzimir)	1250 x 2500	1 – 1,5 – 2
▲ Galvanized (Sendzimir)	1500 x 3000	1,5 - 2
Stainless steel (AISI 304)	1000 x 2000	0,8 – 1 – 1,5 – 2
▲ Stainless steel (AISI 304)	1250 x 2500	1,5
▲ Aluminium	1000 x 2000	1,5

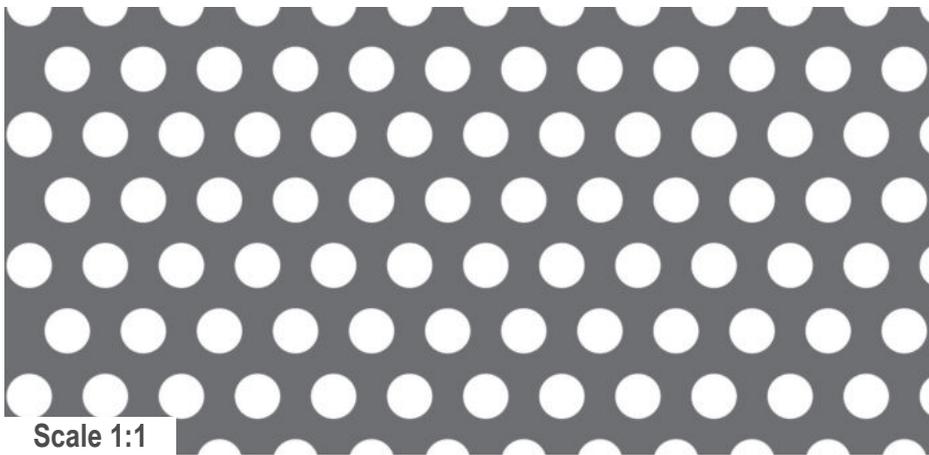


**R 6**  
**T 8**

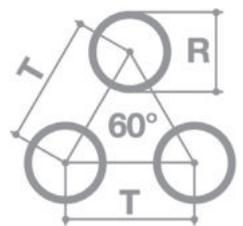


**ROUND HOLES STAGGERED 60° - OPEN AREA 51%**

Materials	Size (mm)	Thickness (mm)
▲ Galvanized (Sendzimir)	1000 x 2000	1,5
▲ Galvanized (Sendzimir)	1250 x 2500	1
▲ Stainless steel (AISI 304)	1000 x 2000	0,5
▲ Stainless steel (AISI 304)	1250 x 2500	1,5
▲ Aluminium	1250 x 2500	1,5



**R 6**  
**T 10**

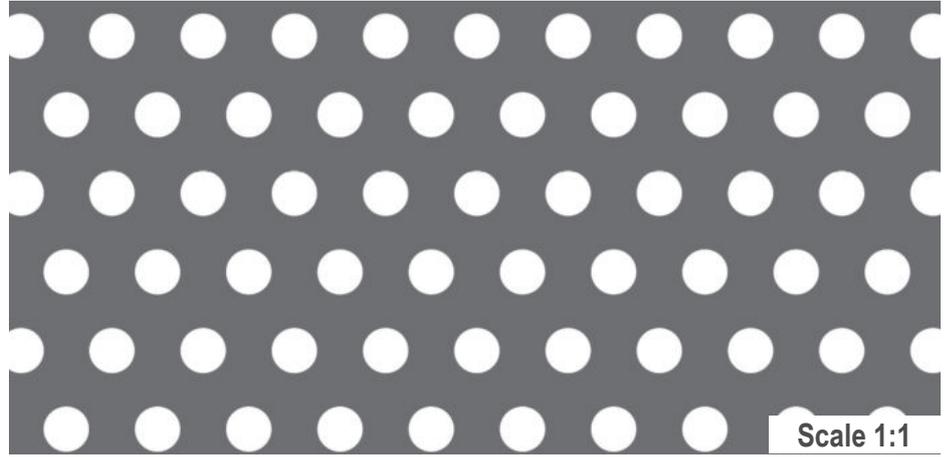
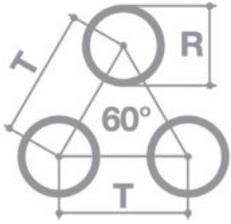


**ROUND HOLES STAGGERED 60° - OPEN AREA 33%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	4
Stainless steel (AISI 304)	1000 x 2000	3

# R 6

## T 12

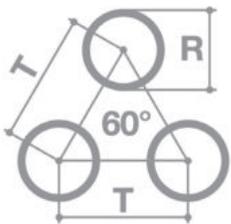


### ROUND HOLES STAGGERED 60° - OPEN AREA 23%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	5
▲ Mild steel	1000 x 2000	6

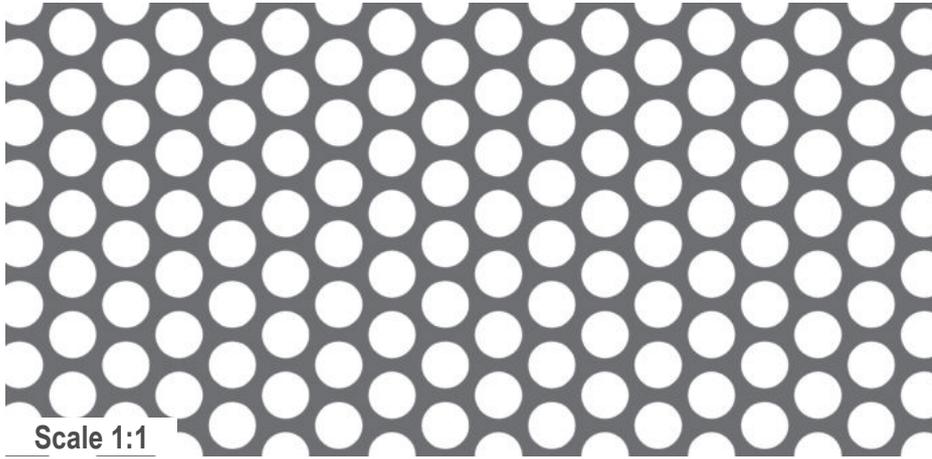
# R 6

## T 15,6

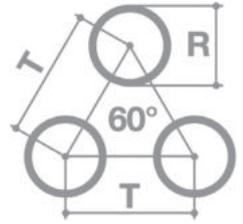


### ROUND HOLES STAGGERED 60° - OPEN AREA 13%

Materials	Size (mm)	Thickness (mm)
▲ Aluminium	1250 x 2500	1,5

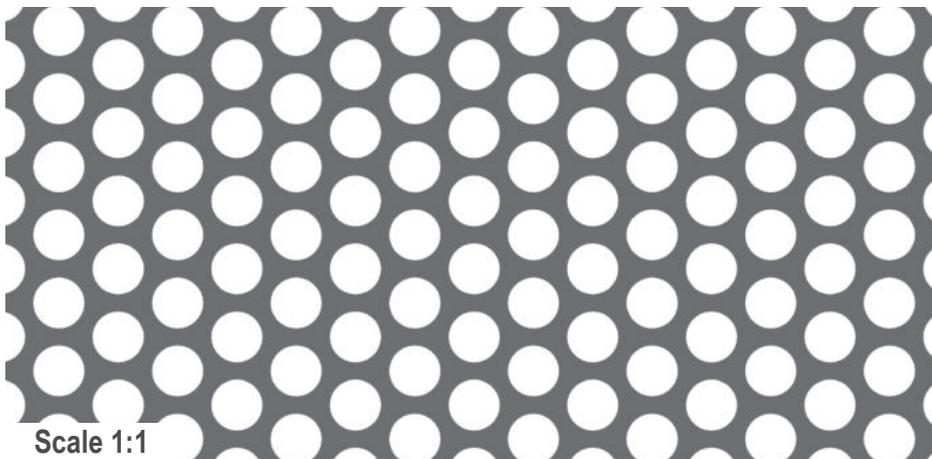


**R 6,5**  
**T 8**

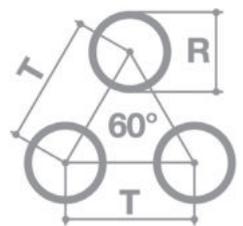


**ROUND HOLES STAGGERED 60° - OPEN AREA 60%**

Materials	Size (mm)	Thickness (mm)
▲ Galvanized (Sendzimir)	1000 x 2000	0,5



**R 7**  
**T 9**

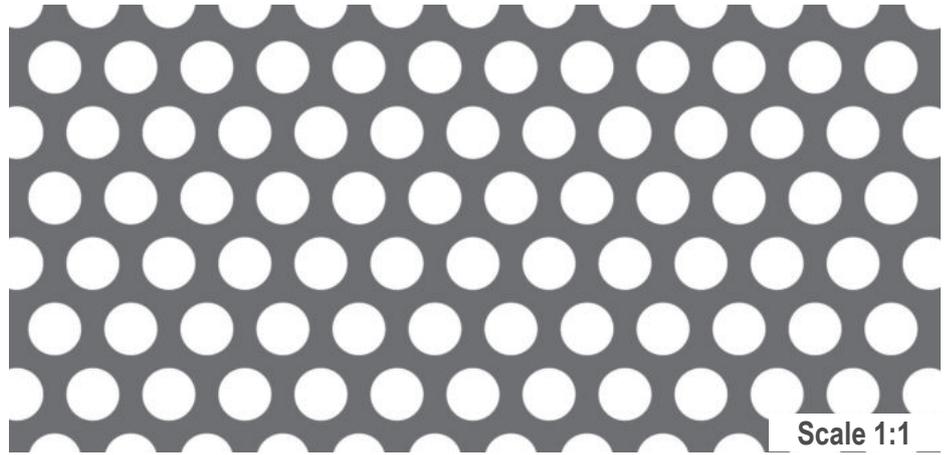
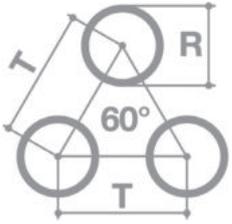


**ROUND HOLES STAGGERED 60° - OPEN AREA 55%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	2
▲ Mild steel	1250 x 2500	2
▲ Stainless steel (AISI 304)	1000 x 2000	1,5

# R 7

## T 10

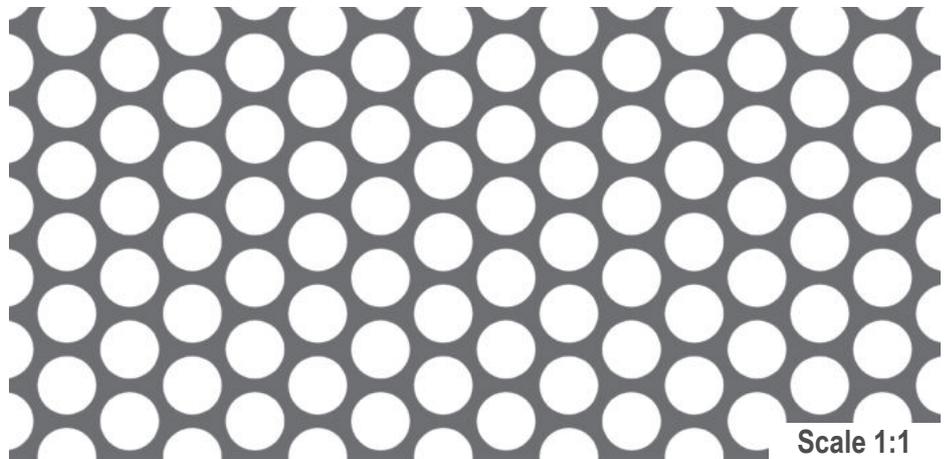
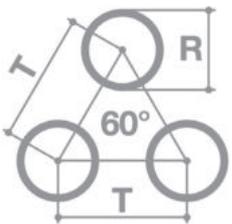


**ROUND HOLES STAGGERED 60° - OPEN AREA 44%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1

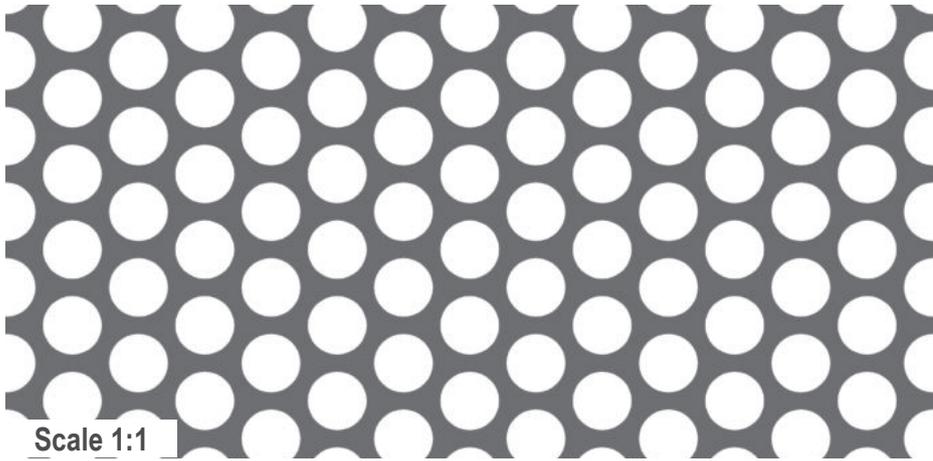
# R 8

## T 9,5



**ROUND HOLES STAGGERED 60° - OPEN AREA 64%**

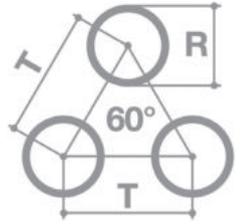
Materials	Size (mm)	Thickness (mm)
▲ Galvanized (Senzimir)	1000 x 2000	1



Scale 1:1

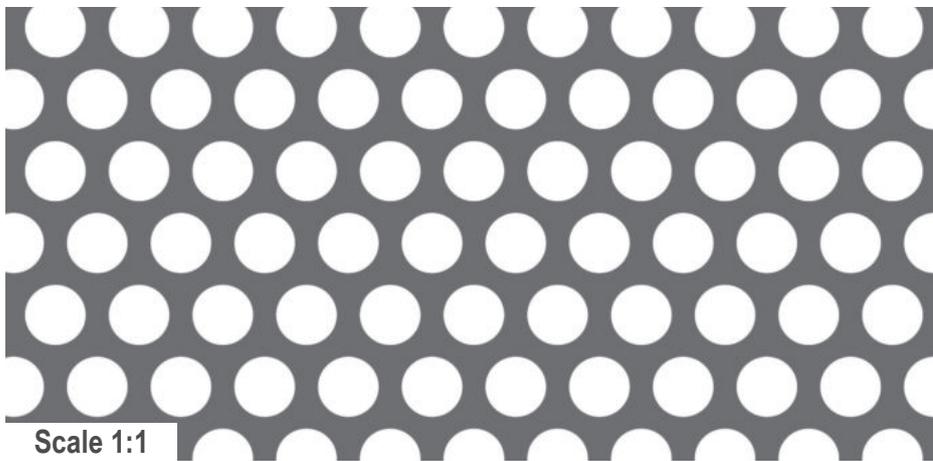
R 8

T 10



**ROUND HOLES STAGGERED 60° - OPEN AREA 58%**

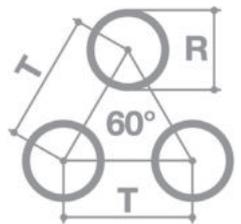
Materials	Size (mm)	Thickness (mm)
▲ Stainless steel (AISI 304)	1000 x 2000	1



Scale 1:1

R 8

T 11

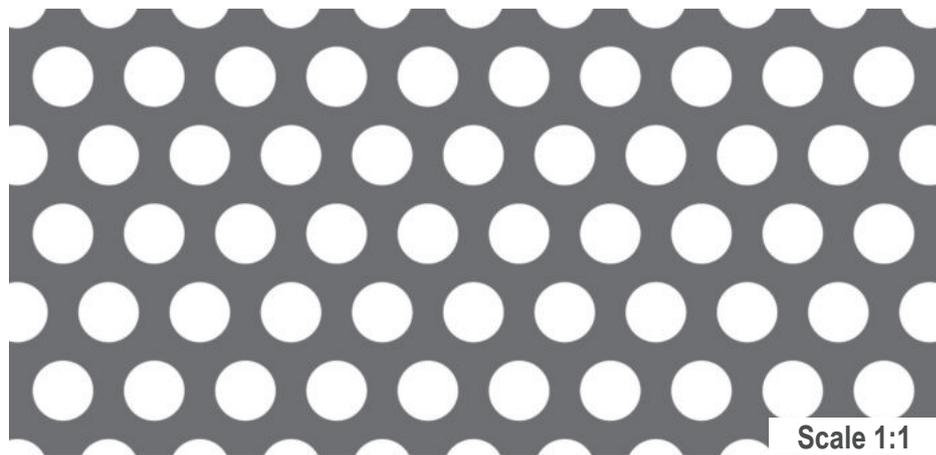
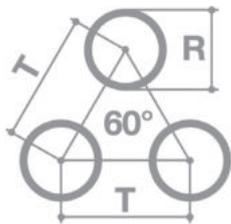


**ROUND HOLES STAGGERED 60° - OPEN AREA 48%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1000 x 2000	2
▲ Galvanized (Sendzimir)	1000 x 2000	1
▲ Stainless steel (AISI 304)	1000 x 2000	1

# R 8

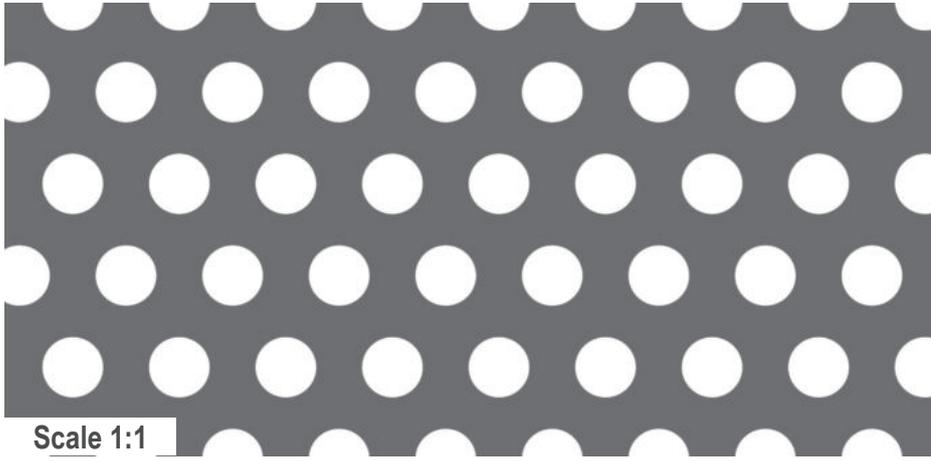
# T 12



Scale 1:1

## ROUND HOLES STAGGERED 60° - OPEN AREA 40%

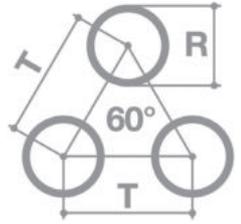
Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,75
Mild steel	1000 x 2000	1 – 1,5 – 2 – 3 – 4 – 5
Mild steel	1250 x 2500	1 – 1,5 – 2
▲ Mild steel	1250 x 2500	3
▲ Mild steel	1500 x 3000	1,5 – 2
Galvanized (Sendzimir)	1000 x 2000	1 – 1,5 – 2
Galvanized (Sendzimir)	1250 x 2500	1,5 - 2
▲ Galvanized (Sendzimir)	1500 x 3000	1 – 1,5
▲ Stainless steel (AISI 304)	1000 x 2000	0,8
Stainless steel (AISI 304)	1000 x 2000	1 – 1,5 – 2 – 3
▲ Stainless steel (AISI 304)	1250 x 2500	1 – 1,5
▲ Stainless steel (AISI 304)	1500 x 3000	1,5
▲ Stainless steel (AISI 316)	1000 x 2000	1,5
▲ Aluminium	1000 x 2000	2
▲ Aluminium	1250 x 2500	1,5



Scale 1:1

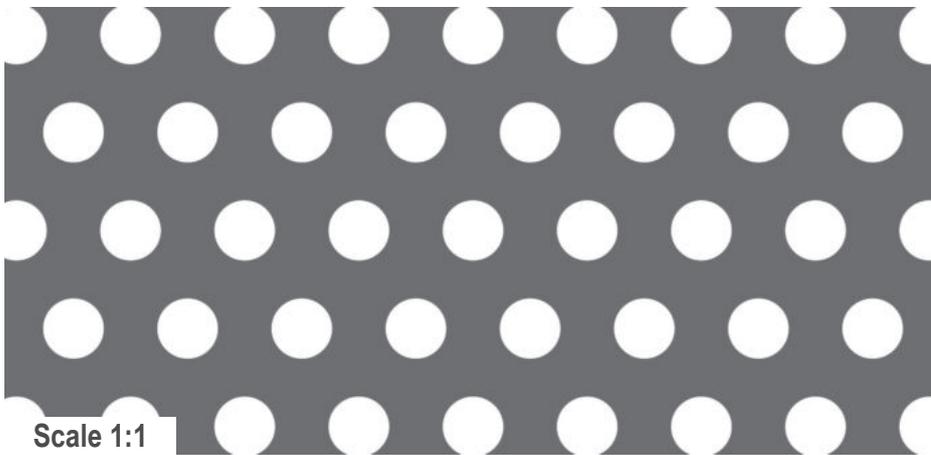
R 8

T 14



**ROUND HOLES STAGGERED 60° - OPEN AREA 30%**

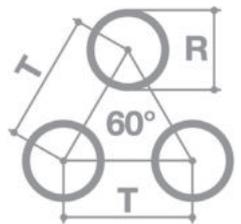
Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	6



Scale 1:1

R 8

T 15

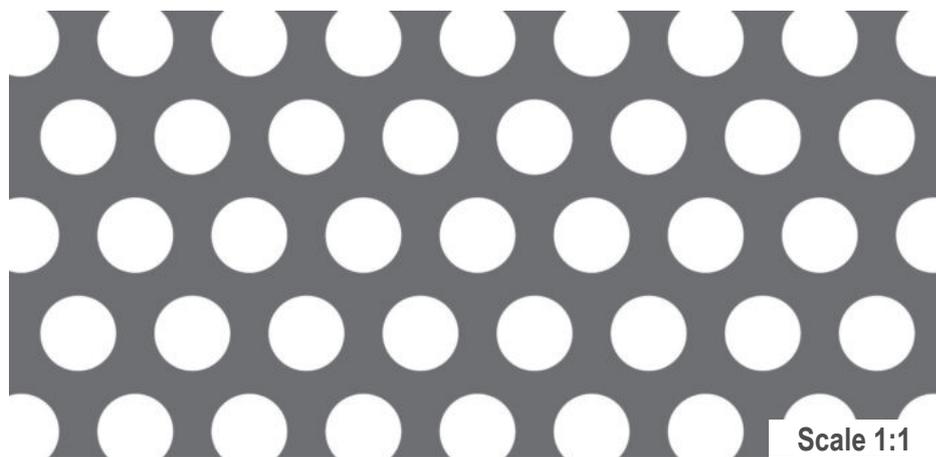
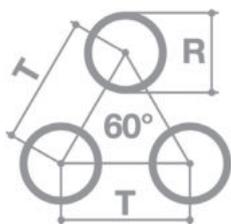


**ROUND HOLES STAGGERED 60° - OPEN AREA 26%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	8

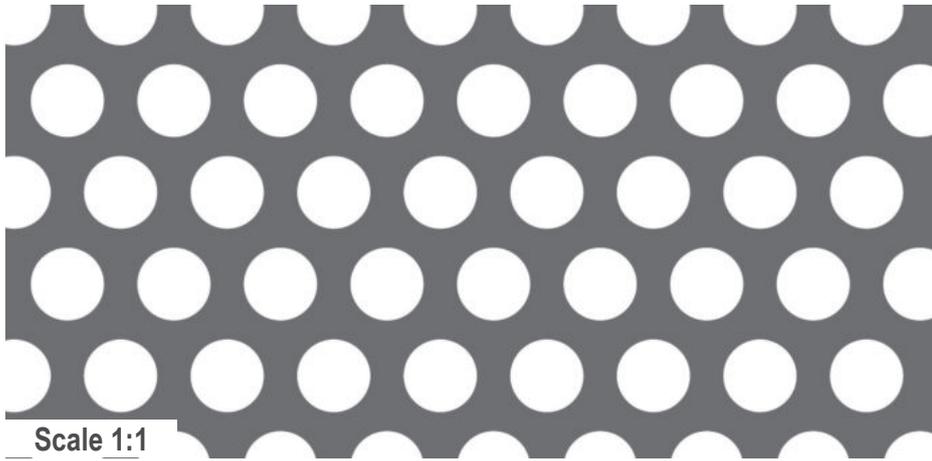
# R 10

## T 15



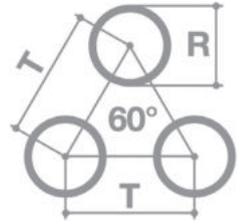
### ROUND HOLES STAGGERED 60° - OPEN AREA 40%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2 – 3 – 4 – 5
Mild steel	1250 x 2500	1 – 1,5 – 2 – 3
Mild steel	1500 x 3000	1,5 – 2
Galvanized (Sendzimir)	1000 x 2000	1 – 1,5 – 2
Galvanized (Sendzimir)	1250 x 2500	1 – 1,5 – 2
▲ Galvanized (Sendzimir)	1500 x 3000	1
Galvanized (Sendzimir)	1500 x 3000	1,5 – 2
Stainless steel (AISI 304)	1000 x 2000	1 – 1,5 – 2 – 3
Stainless steel (AISI 304)	1250 x 2500	1,5
▲ Stainless steel (AISI 316)	1000 x 2000	1 – 1,5 – 2
▲ Aluminium	1000 x 2000	1,5
▲ Aluminium	1250 x 2500	2



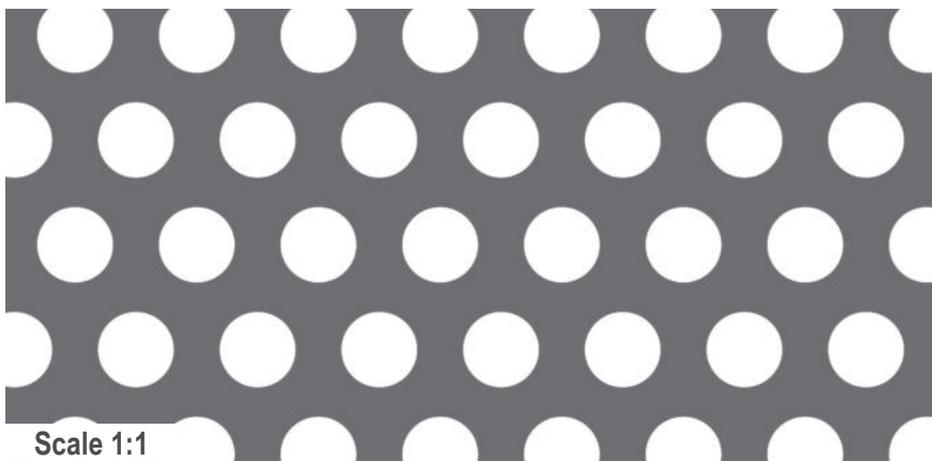
Scale 1:1

R 10  
T 14



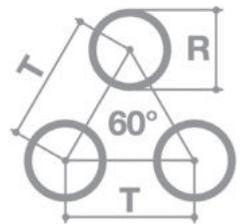
**ROUND HOLES STAGGERED 60° - OPEN AREA 46%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2
▲ Mild steel	1250 x 2500	1,5 – 2
▲ Mild steel	1500 x 3000	1,5
▲ Galvanized (Sendzimir)	1000 x 2000	1 – 2
Galvanized (Sendzimir)	1000 x 2000	1,5
▲ Galvanized (Sendzimir)	1250 x 2500	1,5 – 2
▲ Galvanized (Sendzimir)	1500 x 3000	2



Scale 1:1

R 10  
T 16

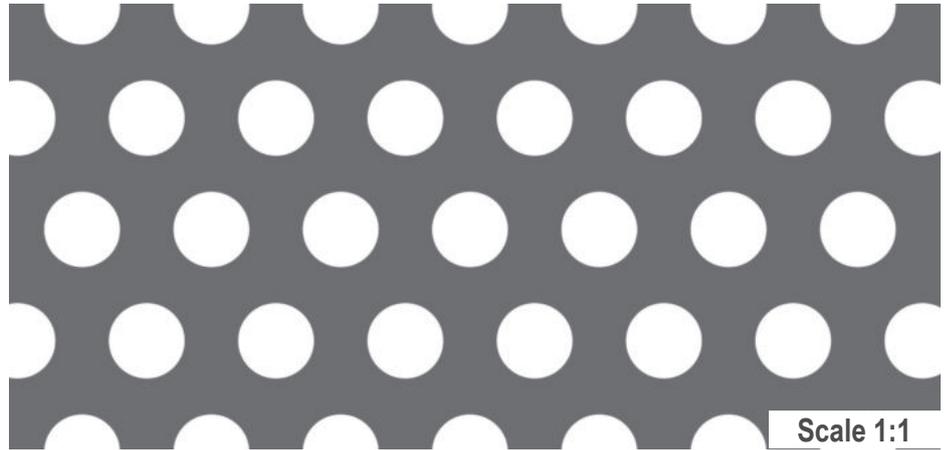
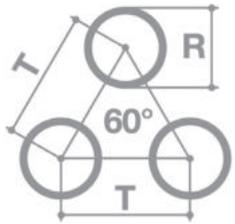


**ROUND HOLES STAGGERED 60° - OPEN AREA 35%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	6

# R 10

## T 17

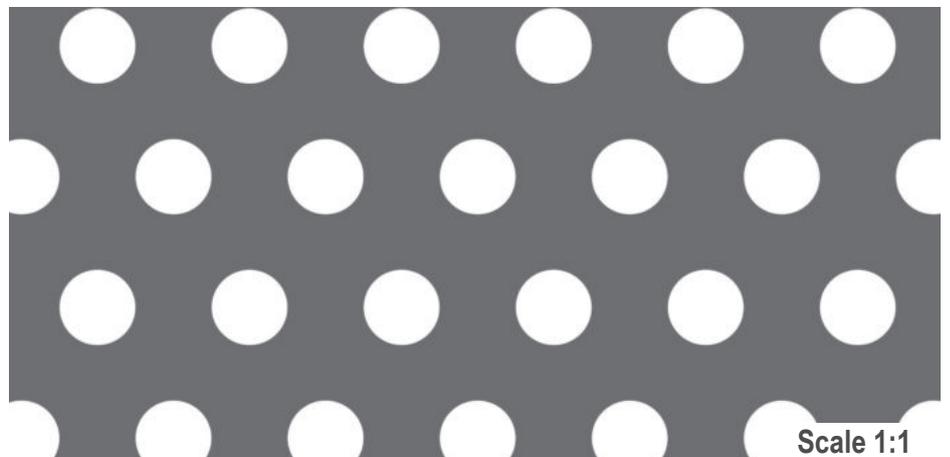
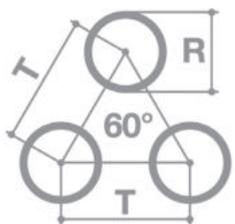


**ROUND HOLES STAGGERED 60° - OPEN AREA 31%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	8

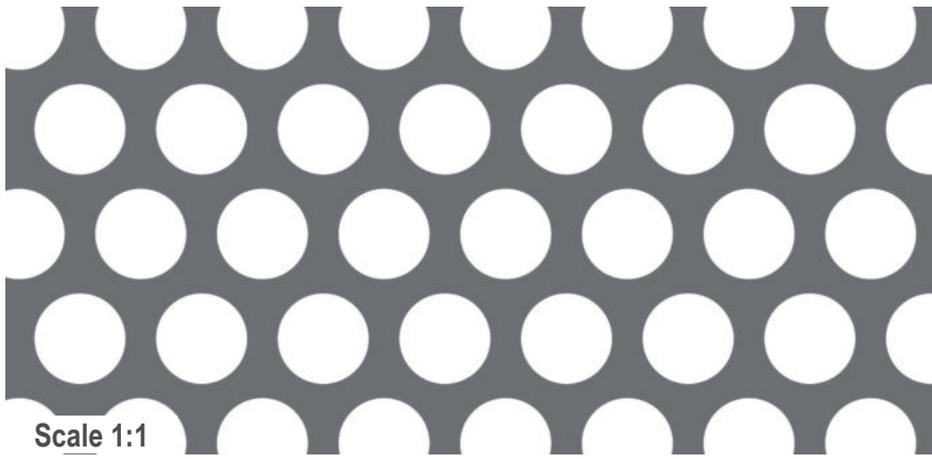
# R 10

## T 20



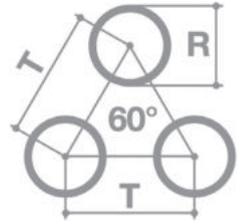
**ROUND HOLES STAGGERED 60° - OPEN AREA 23%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	10



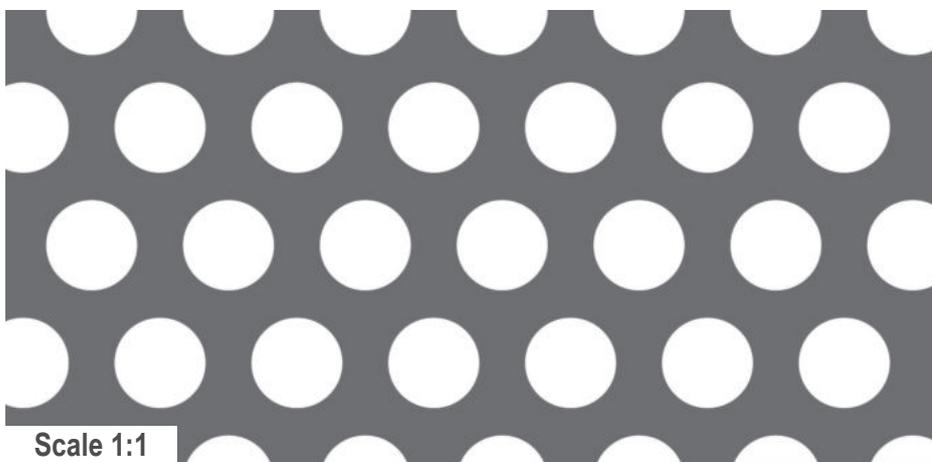
Scale 1:1

R 12  
T 16



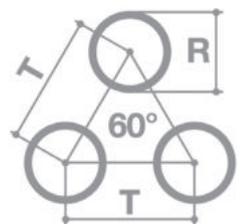
**ROUND HOLES STAGGERED 60° - OPEN AREA 51%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2 – 3
▲ Mild steel	1250 x 2500	1,5
▲ Mild steel	1500 x 3000	1
▲ Galvanized (Sendzimir)	1500 x 3000	1,5
Stainless steel (AISI 304)	1000 x 2000	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	2



Scale 1:1

R 12  
T 18

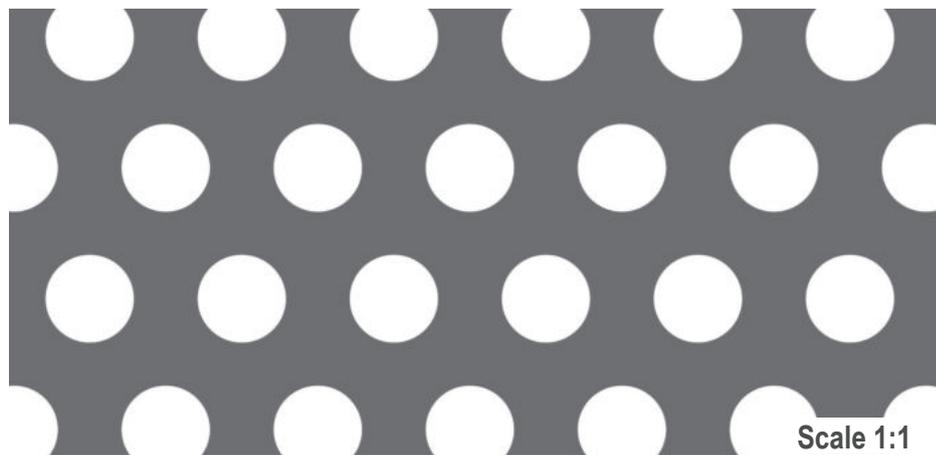
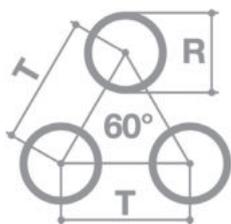


**ROUND HOLES STAGGERED 60° - OPEN AREA 40%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1,5 – 4 – 5 – 6

# R 12

## T 20



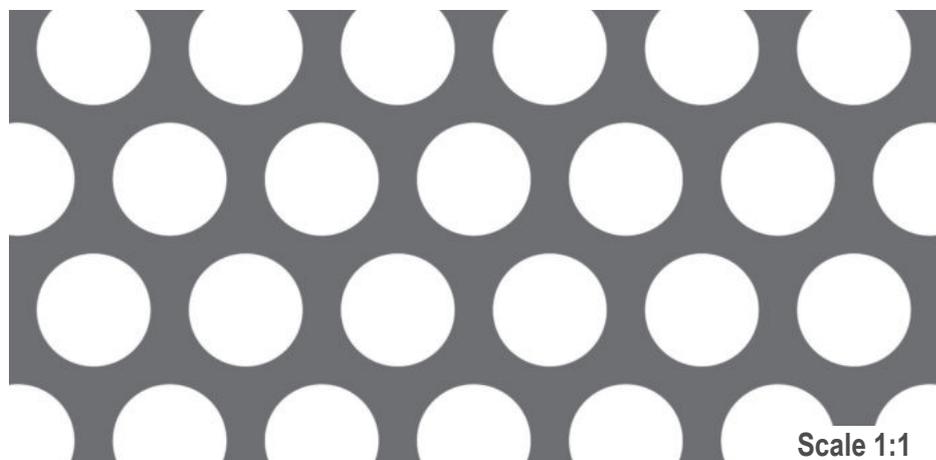
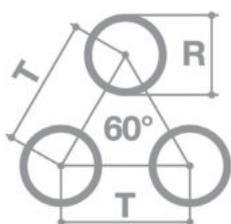
Scale 1:1

**ROUND HOLES STAGGERED 60° - OPEN AREA 33%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	8 – 10

# R 15

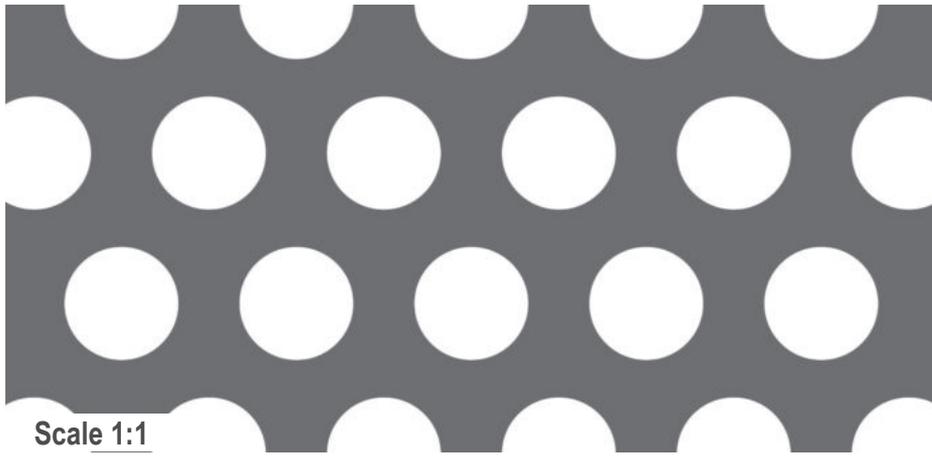
## T 20



Scale 1:1

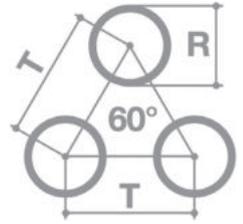
**ROUND HOLES STAGGERED 60° - OPEN AREA 51%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2 – 3
Mild steel	1250 x 2500	1,5 – 2
▲ Galvanized (Sendzimir)	1000 x 2000	1,5 – 2
▲ Galvanized (Sendzimir)	1250 x 2500	2
Stainless steel (AISI 304)	1000 x 2000	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	2



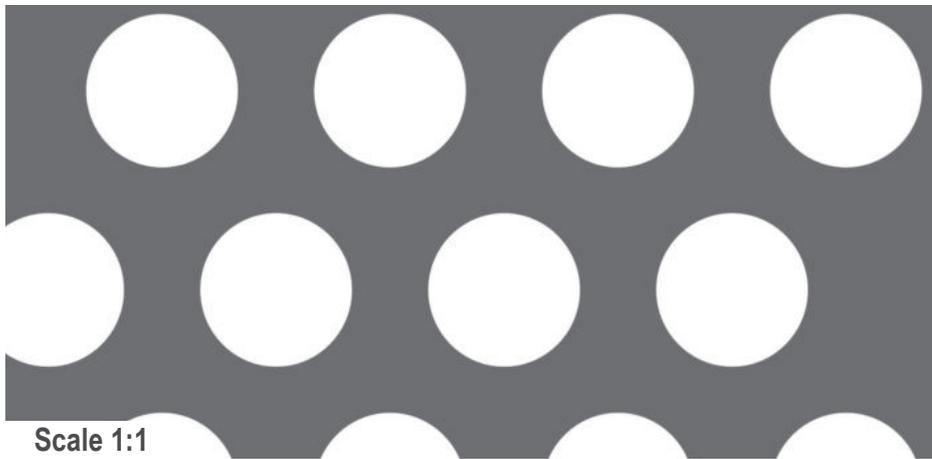
Scale 1:1

**R 15**  
**T 23**



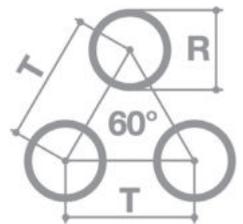
**ROUND HOLES STAGGERED 60° - OPEN AREA 39%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	4 – 5



Scale 1:1

**R 20**  
**T 30**

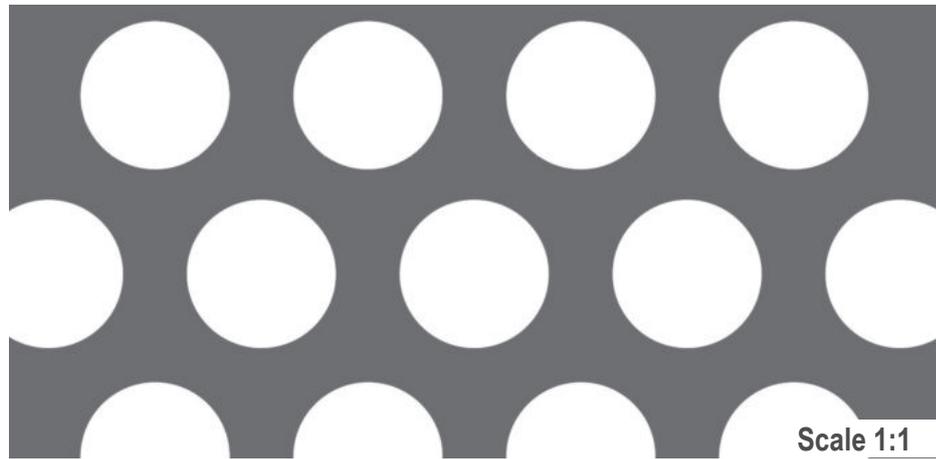
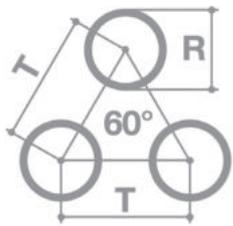


**ROUND HOLES STAGGERED 60° - OPEN AREA 40%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	8

# R 20

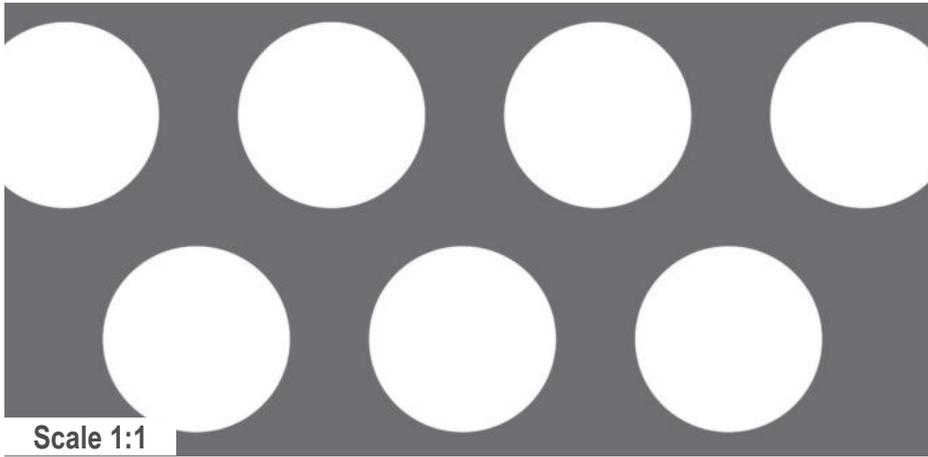
## T 28



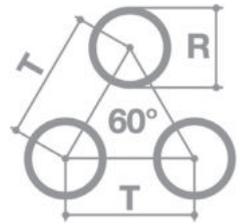
Scale 1:1

### ROUND HOLES STAGGERED 60° - OPEN AREA 46%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1
Mild steel	1000 x 2000	1,5 - 2 - 3 - 4 - 5
▲ Mild steel	1250 x 2500	1,5
Mild steel	1250 x 2500	2
▲ Mild steel	1500 x 3000	2
▲ Galvanized (Sendzimir)	1000 x 2000	1,5 - 2
▲ Galvanized (Sendzimir)	1250 x 2500	2
Stainless steel (AISI 304)	1000 x 2000	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	2
▲ Aluminium	1000 x 2000	2

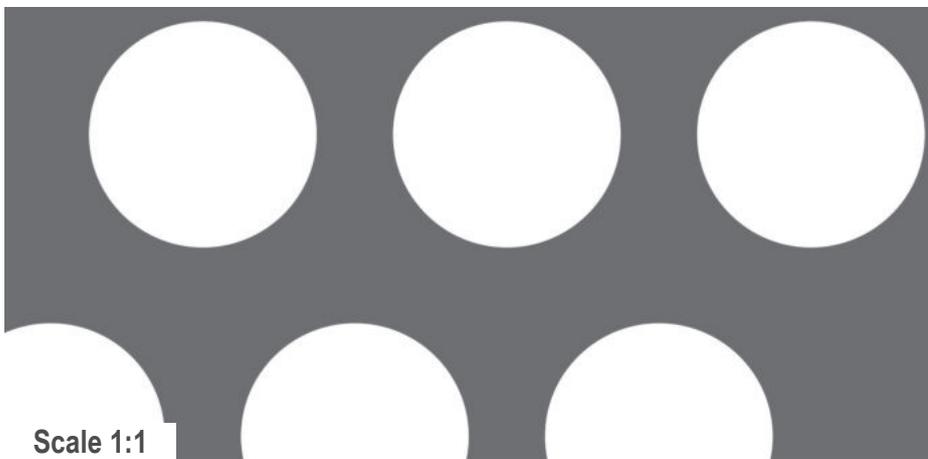


**R 25**  
**T 35**

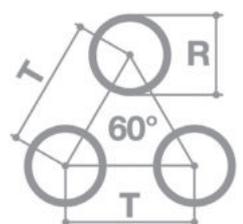


**ROUND HOLES STAGGERED 60° - OPEN AREA 46%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	2
▲ Stainless steel (AISI 304)	1000 x 2000	1,5



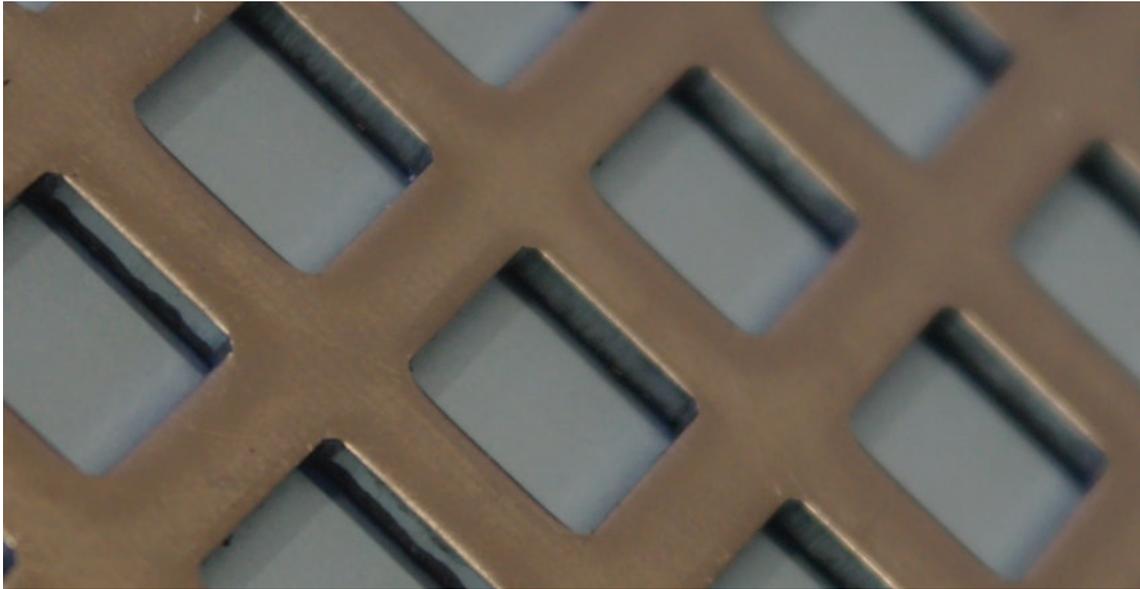
**R 30**  
**T 40**



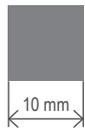
**ROUND HOLES STAGGERED 60° - OPEN AREA 51%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	3
▲ Stainless steel (AISI 304)	1000 x 2000	1,5

# SQUARE HOLES

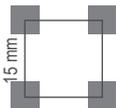


## Shape and size of holes



**C 10 – Square** - Symbol **C** followed by length of side

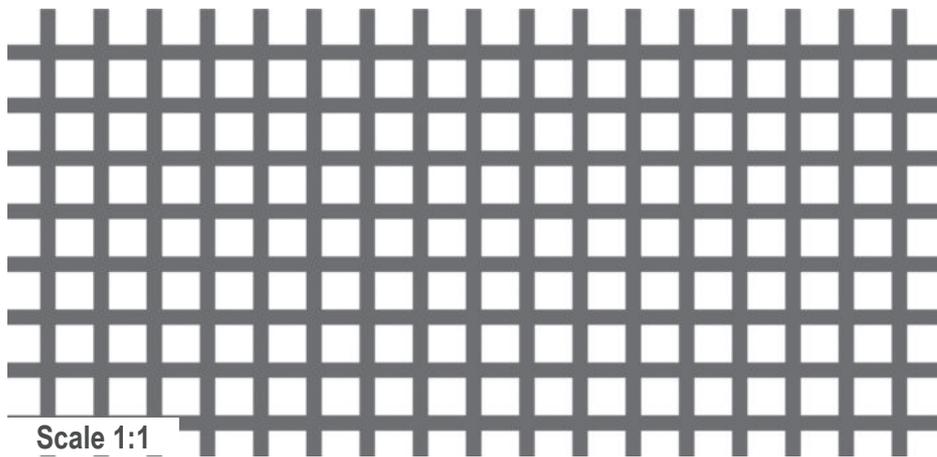
## Arrangement and pitch of holes



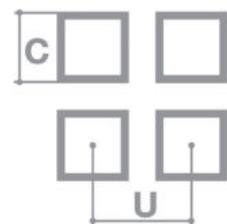
**U 15 – 90° Square pitch** - Symbol **U** followed by pitch = 15 mm

Square holes are usually ordered in parallel lines and are used both for aesthetic use (fences, gates, etc) and for agri-food and mining industry for sieves.

**Perforated sheets with square holes**, such as with round holes, can be used both for structural and for aesthetic use. They can be produced in the most common metallic materials, starting from 5×5 mm.

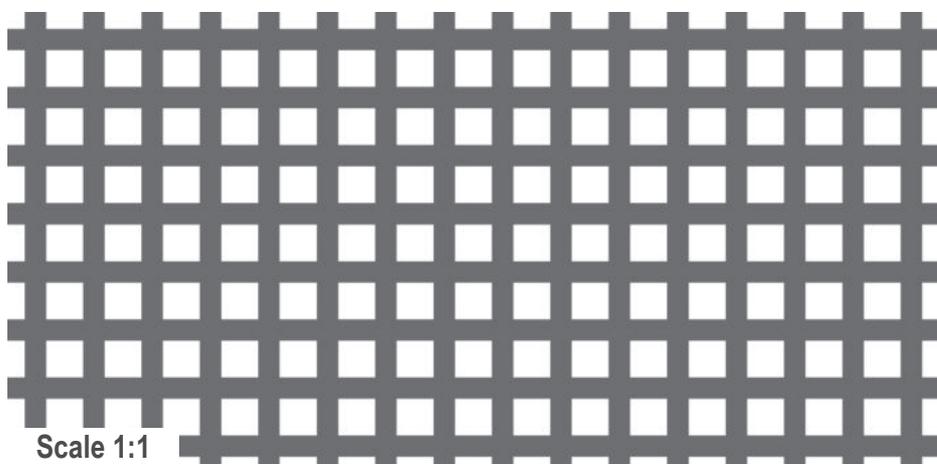


C 5  
U 7

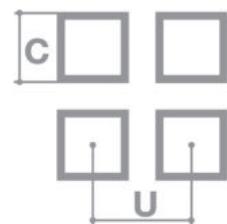


**SQUARE HOLES IN LINE - OPEN AREA 51%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,5
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1250 x 2500	1
Stainless steel (AISI 304)	1000 x 2000	0,8 - 1
▲ Aluminium	1000 x 2000	1



C 5  
U 7,5

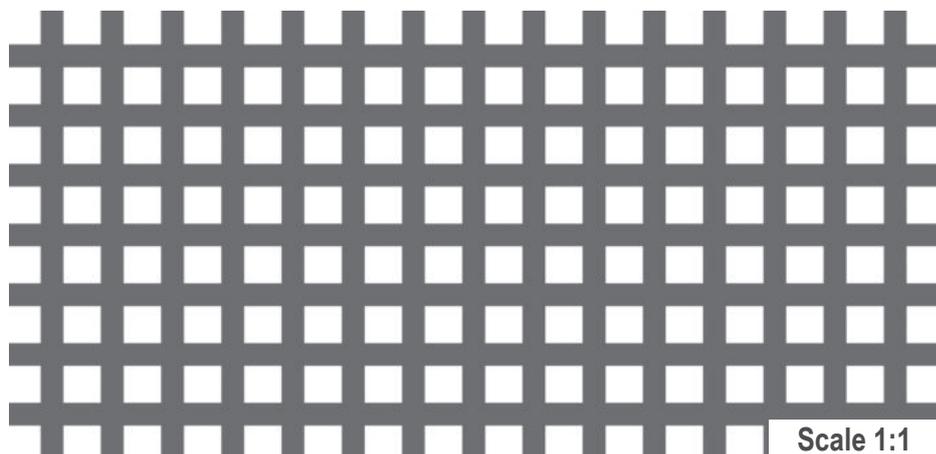
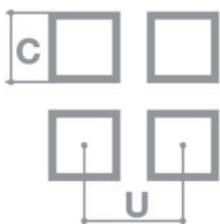


**SQUARE HOLES IN LINE - OPEN AREA 44%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1
▲ Stainless steel (AISI 304)	1000 x 2000	1
▲ Aluminium	1000 x 2000	1,5 – 2

# C 5

## U 8



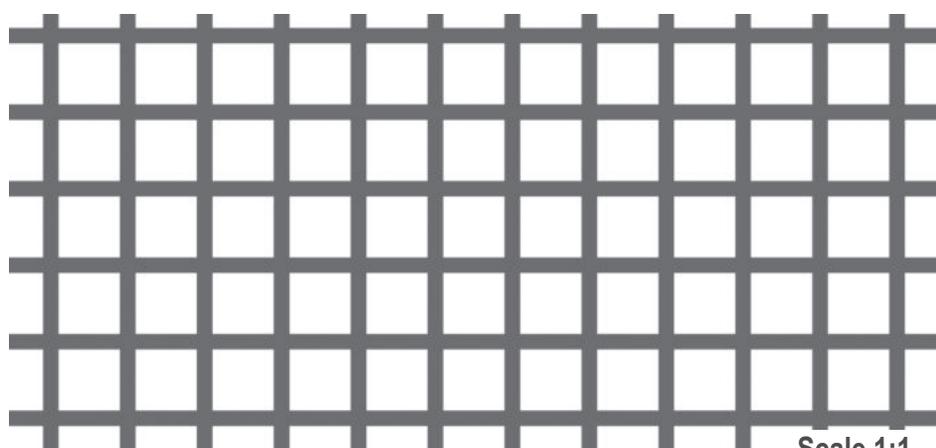
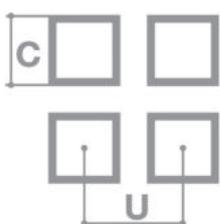
Scale 1:1

### SQUARE HOLES IN LINE - OPEN AREA 39%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1250 x 2500	1,5
▲ Galvanized (Sendzimir)	1000 x 2000	1
▲ Stainless steel (AISI 304)	1000 x 2000	1

# C 8

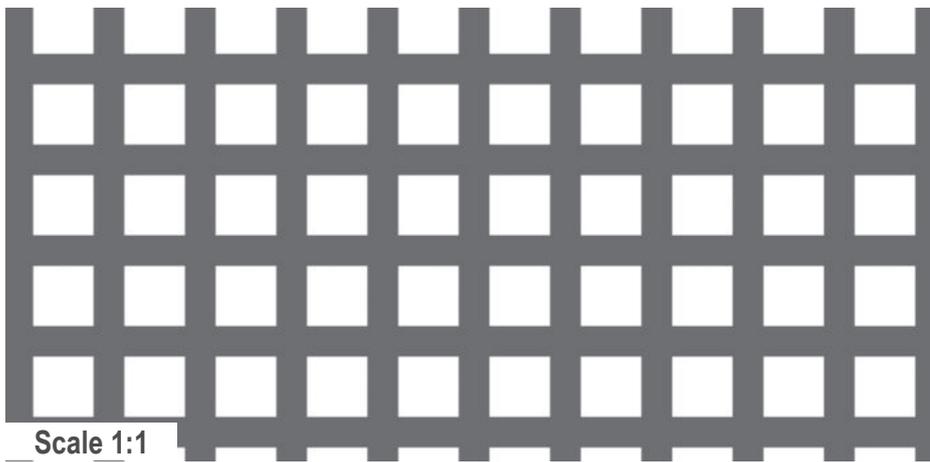
## U 10



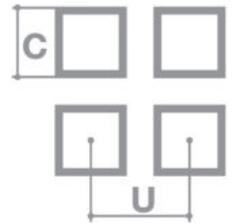
Scale 1:1

### SQUARE HOLES IN LINE - OPEN AREA 64%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1250 x 2500	1
▲ Galvanized (Sendzimir)	1000 x 2000	1
Stainless steel (AISI 304)	1000 x 2000	1

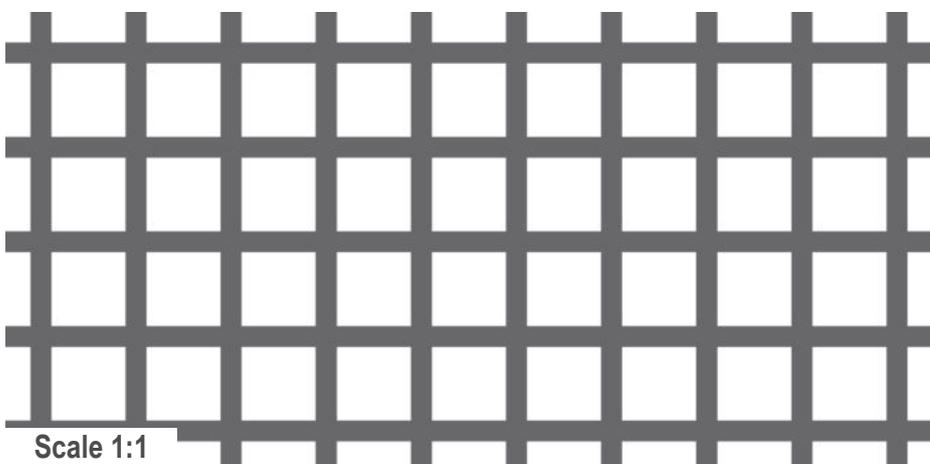


C 8  
U 12

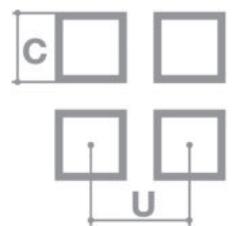


**SQUARE HOLES IN LINE - OPEN AREA 44%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2
▲ Mild steel	1250 x 2500	1 – 1,5
Mild steel	1250 x 2500	2
▲ Galvanized (Sendzimir)	1000 x 2000	1,5 – 2
Galvanized (Sendzimir)	1250 x 2500	1,5
Stainless steel (AISI 304)	1000 x 2000	1 – 1,5



C 10  
U 12,5

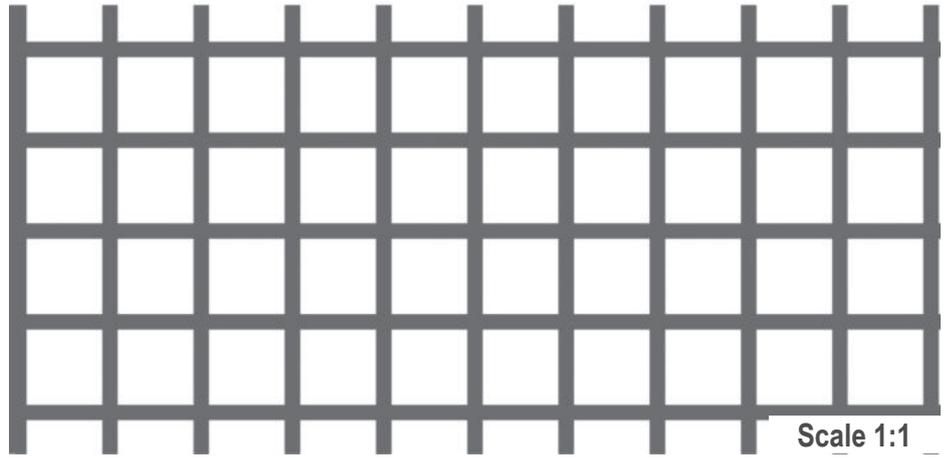
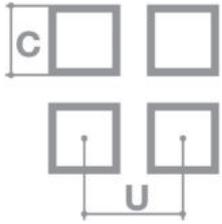


**SQUARE HOLES IN LINE - OPEN AREA 64%**

Materials	Size (mm)	Thickness (mm)
▲ Stainless steel (AISI 304)	1000 x 2000	1,5

# C 10

# U 12



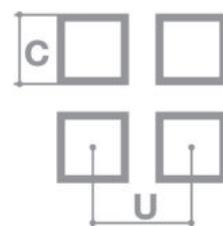
Scale 1:1

## SQUARE HOLES IN LINE - OPEN AREA 69%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1000 x 2000	2
▲ Mild steel	1250 x 2500	1,5 – 2
Galvanized (Sendzimir)	1000 x 2000	1
▲ Galvanized (Sendzimir)	1000 x 2000	1,5 – 2
Galvanized (Sendzimir)	1250 x 2500	1
▲ Galvanized (Sendzimir)	1250 x 2500	1,5
Stainless steel (AISI 304)	1000 x 2000	1 – 1,5
▲ Stainless steel (AISI 304)	1000 x 2000	2
▲ Stainless steel (AISI 304)	1250 x 2500	1 – 1,5
▲ Stainless steel (AISI 316)	1000 x 2000	2
▲ Aluminium	1000 x 2000	2



C 10  
U 15

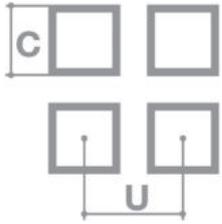


## SQUARE HOLES IN LINE - OPEN AREA 44%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5 – 2
▲ Mild steel	1000 x 2000	3
▲ Mild steel	1250 x 2500	1 – 3
Mild steel	1250 x 2500	1,5 – 2
Mild steel	1500 x 3000	1,5
▲ Mild steel	1500 x 3000	2
Galvanized (Sendzimir)	1000 x 2000	1 – 1,5 – 2
▲ Galvanized (Sendzimir) Z275	1000 x 2000	1
▲ Galvanized (Sendzimir)	1250 x 2500	1
Galvanized (Sendzimir)	1250 x 2500	1,5 – 2
Galvanized (Sendzimir)	1500 x 3000	1,5
▲ Galvanized (Sendzimir)	1500 x 3000	2
Stainless steel (AISI 304)	1000 x 2000	1 – 1,5
▲ Aluminium	1000 x 2000	1 – 2
Aluminium	1000 x 2000	1,5

# C 10

## U 14



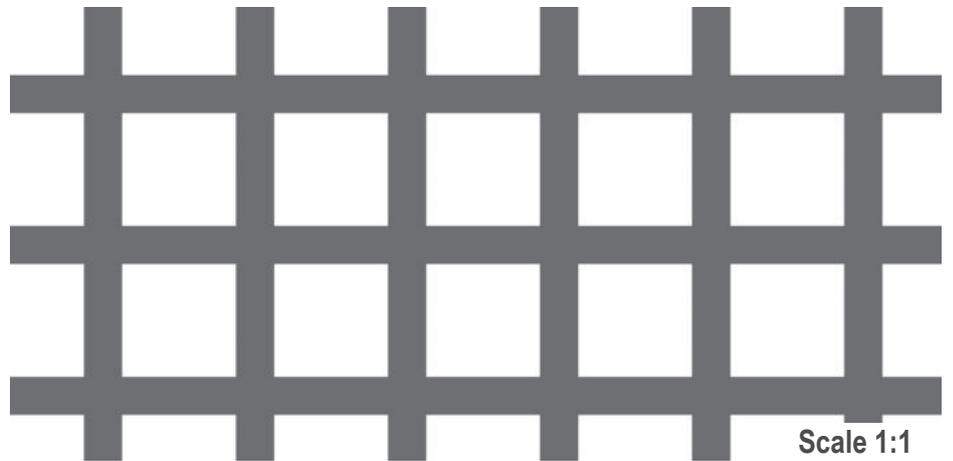
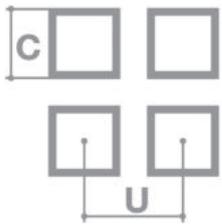
Scale 1:1

### SQUARE HOLES IN LINE - OPEN AREA 51%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1 – 1,5
▲ Mild steel	1250 x 2500	1,5
Galvanized (Sendzimir)	1000 x 2000	1
▲ Galvanized (Sendzimir)	1250 x 2500	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	1 – 1,5 – 2

# C 15

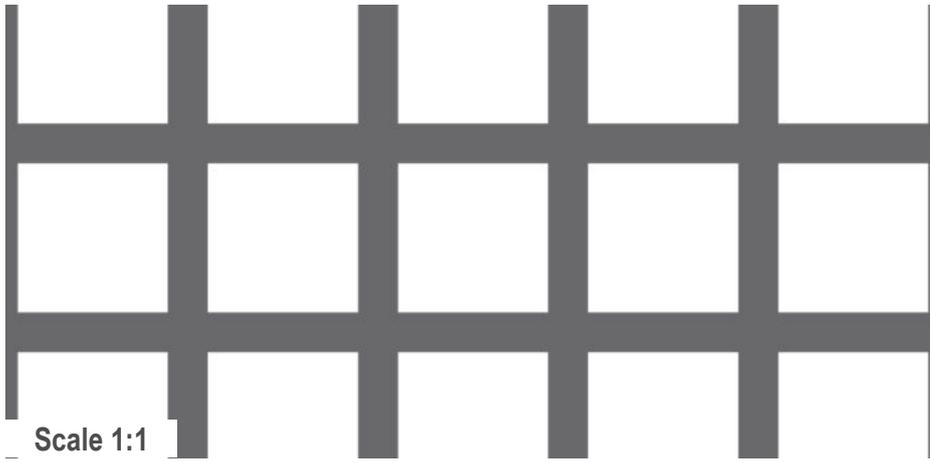
## U 20



Scale 1:1

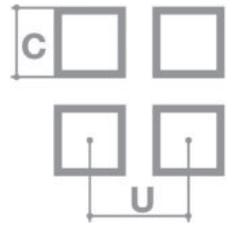
### SQUARE HOLES IN LINE - OPEN AREA 56%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1,5
▲ Mild steel	1000 x 2000	2
▲ Mild steel	1250 x 2500	1,5



C 20

U 25



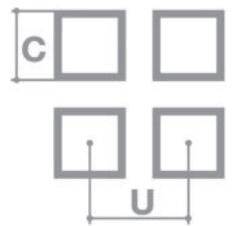
**SQUARE HOLES IN LINE - OPEN AREA 64%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1,5
▲ Stainless steel (AISI 304)	1000 x 2000	2



C 20

U 40

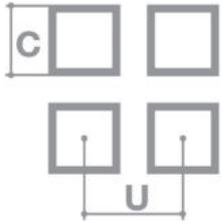


**SQUARE HOLES IN LINE - OPEN AREA 25%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1,5

# C 30

## U 60

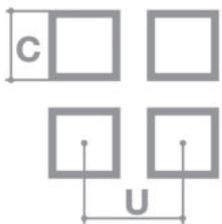


### SQUARE HOLES IN LINE - OPEN AREA 25%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1,5

# C 40

## U 80



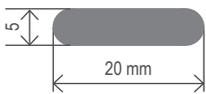
### SQUARE HOLES IN LINE - OPEN AREA 25%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1,5

# SLOT HOLES



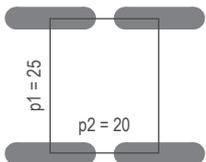
## Shape and size of holes



**LR 5 x 20 Slot with round ends**

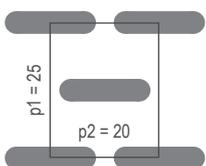
Symbol **LR** followed by length of short and long axis

## Arrangement and pitch of holes



**U 25 x 20 – Straight pitch**

Symbol **U** followed by pitches p1 and p2  
(pitch p1 parallel to the smaller axis of the hole is indicated first)



**Z 25 x 20 – Staggered pitch**

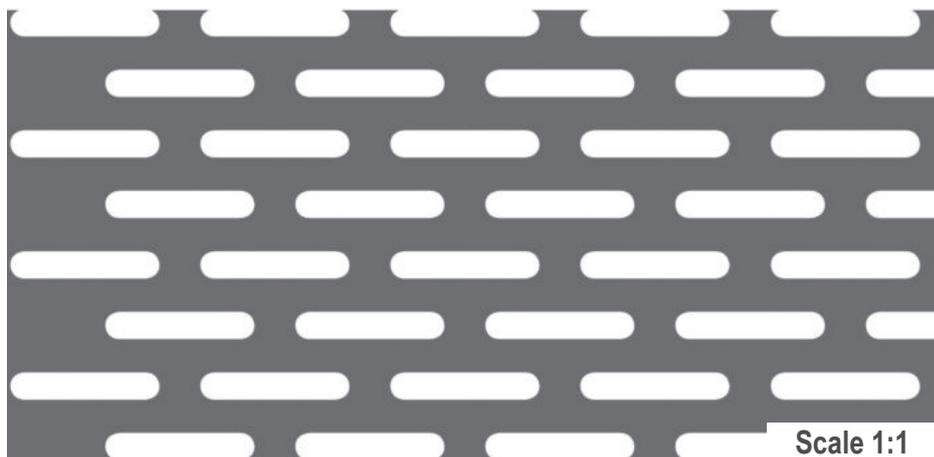
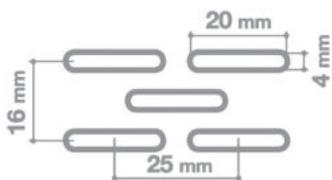
Symbol **Z** followed by pitches p1 and p2  
(pitch p1 parallel to the smaller axis of the hole is indicated first)

Slot with round ends holes are normally used for filtering and separating liquids or solids. Their arrangement is especially important in screening, where the material to be selected must not meet free areas. For this type of application the staggered pitch arrangement is unavoidable. Their use is increasing also for exhibitor panels.

**Perforated sheets with slot holes** are intended for industrial use (mining and agriculture mainly) for sieves and screens. Available in carbon steel and upon request in other metallic materials.

# LR 4x20

Z 16x25 L



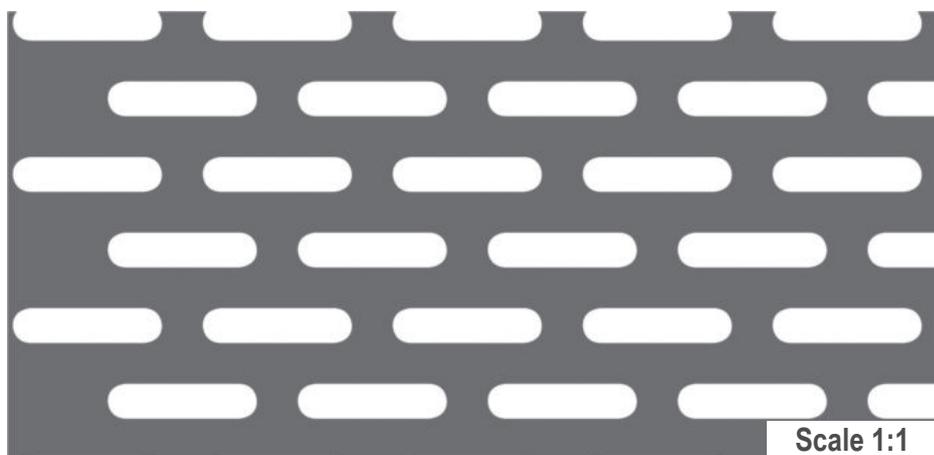
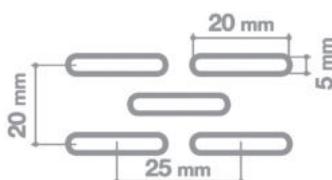
Scale 1:1

**SLOT HOLES STAGGERED - OPEN AREA 38%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1
▲ Aluminium	1000 x 2000	1

# LR 5x20

Z 20x25 L

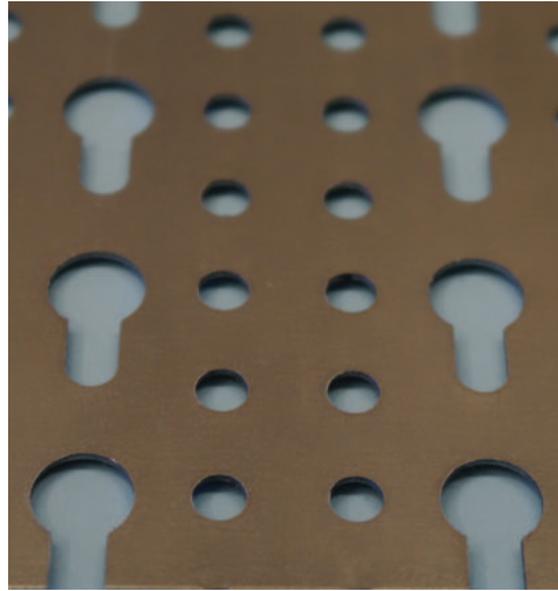
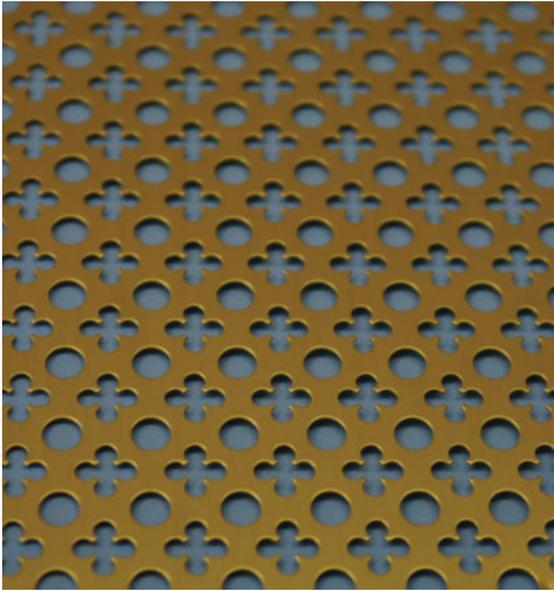


Scale 1:1

**SLOT HOLES STAGGERED - OPEN AREA 38%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1,5
▲ Aluminium	1000 x 2000	1

# DECORATIVE – FORTOP HOLES



## Decorative Holes

Sheets perforated with decorative holes are mainly used for their aesthetic features. The shape of the holes varies and there are often different types of holes in the same sheet. There are no standards referring to decorative holes and each producer uses its own identification codes.

Often, customers buying decorative holes, need also anodized sheets, in order to improve the aesthetic performance of the product, as shown in the above listed selection.

**Perforated sheets with decorative holes** are almost exclusively intended for aesthetic use for radiators and fireplaces protection. Available in mild steel and aluminium, raw, anodized or painted (white).

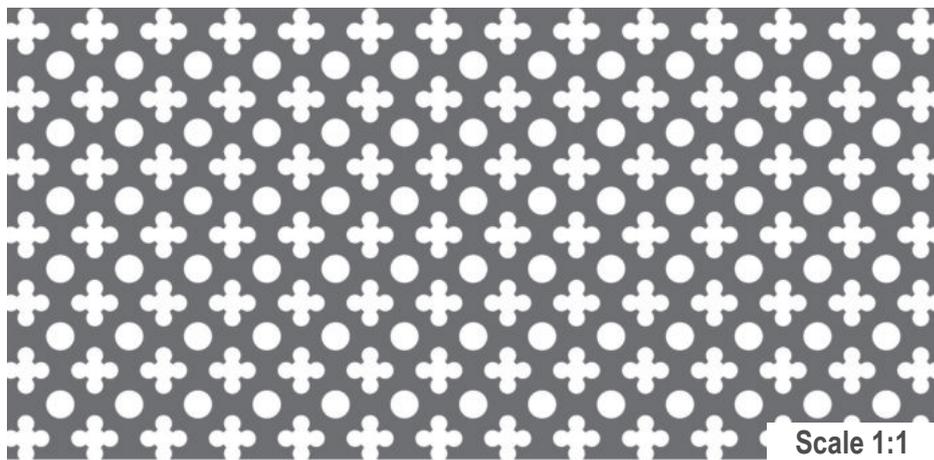
## Fortop

Fortop holes are used almost exclusively for the commercial furnishing sector, mostly in workshops, ironmongeries, workbenches in general, given the particular combination of round holes and keyholes, specific to hang hooks and objects.

**Perforated sheets with key holes** are intended for commercial use and for mechanical workshops. Available in mild steel and upon request in other metallic materials.

# FS 8

## U 9

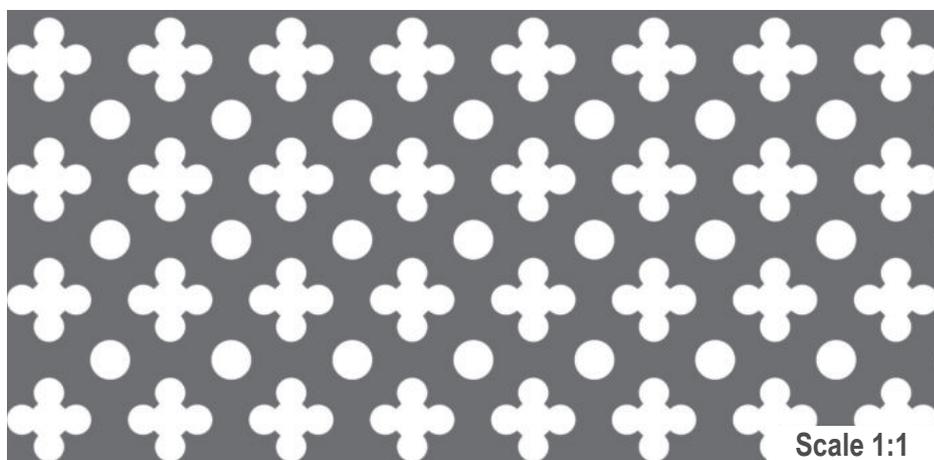


### DECORATIVE HOLES - OPEN AREA 37%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1
Aluminium	1000 x 2000	0,5
Aluminium GOLD anodized	1000 x 2000	0,5
Aluminium BRONZE anodized	1000 x 2000	0,5
Aluminium WHITE coated	1000 x 2000	0,5

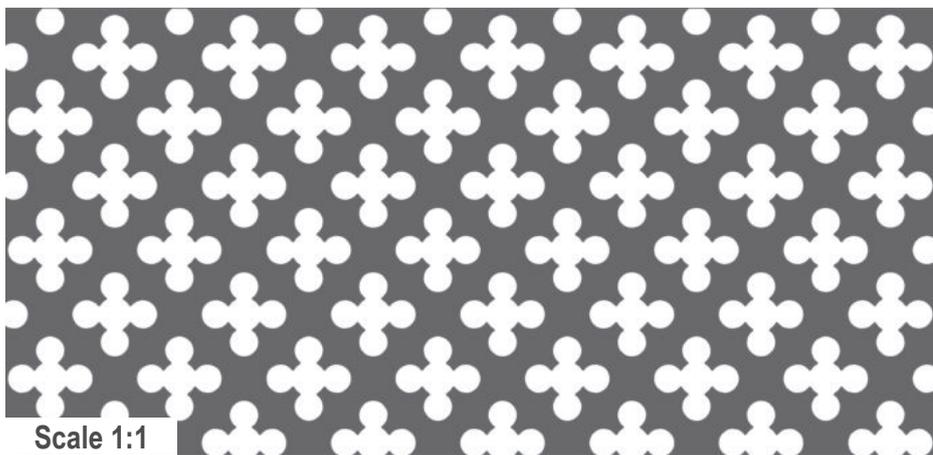
# FS 9

## U 16



### DECORATIVE HOLES - OPEN AREA 34%

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	0,75
Mild steel	1000 x 2000	1

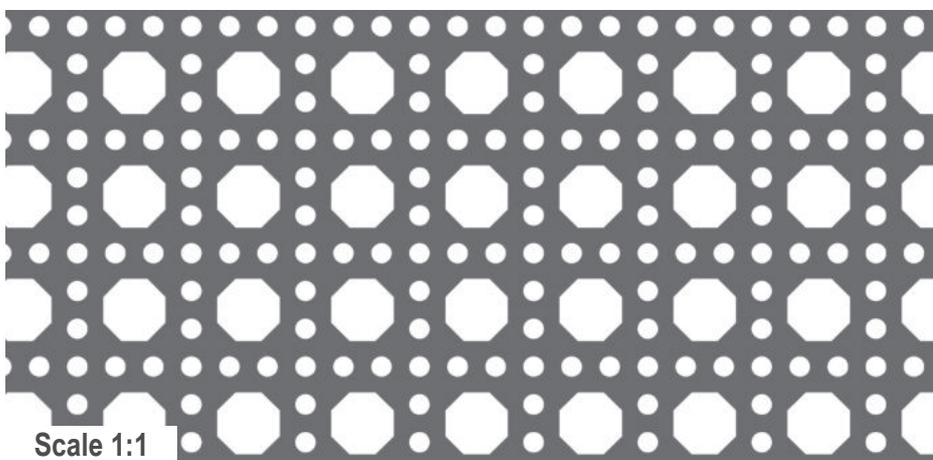


# FS 9 BIS

## Z 17

### DECORATIVE HOLES - OPEN AREA 38%

Materials	Size (mm)	Thickness (mm)
▲ Aluminium	1000 x 2000	0,8



# FS 19

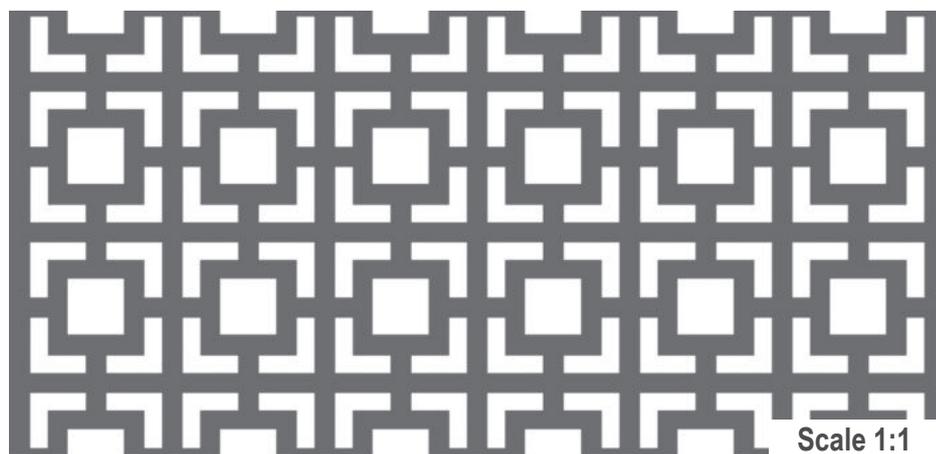
## U 15

### DECORATIVE HOLES - OPEN AREA 41%

Materials	Size (mm)	Thickness (mm)
▲ Aluminium	1000 x 2000	0,5

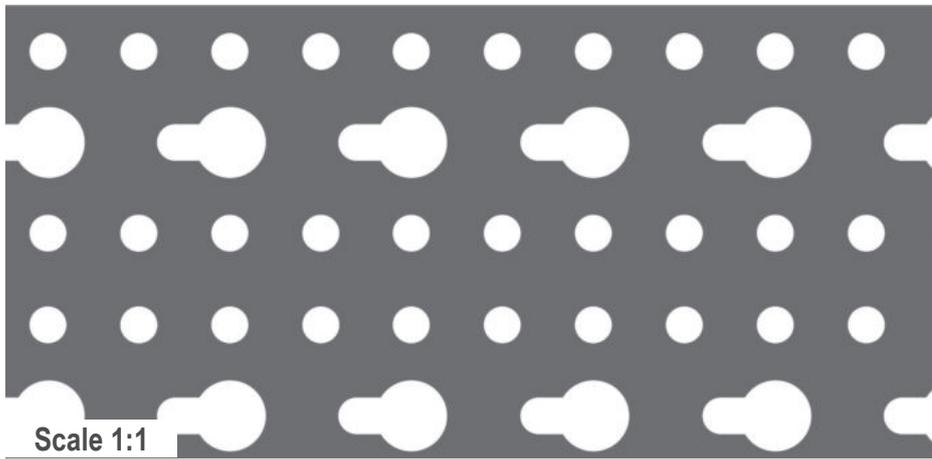
# FS 45

## U 20

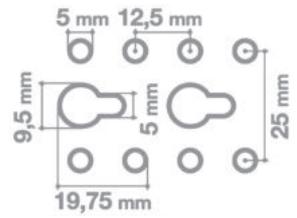


### DECORATIVE HOLES - OPEN AREA 44%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	0,75
▲ Aluminium	1000 x 2000	0,5 - 0,8 - 1

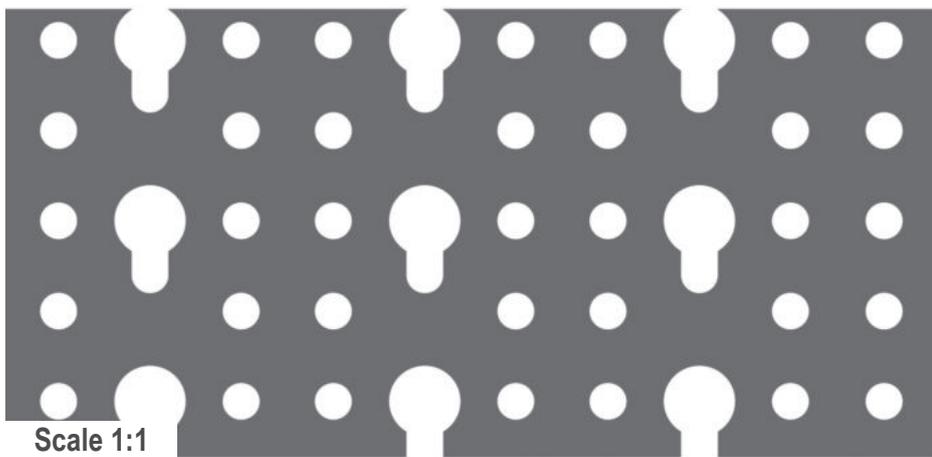


LL

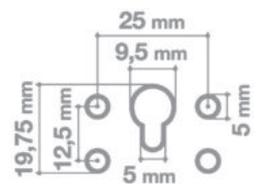


**FORTOP L L - OPEN AREA 18%**

Materials	Size (mm)	Thickness (mm)
▲ Mild steel	1000 x 2000	1

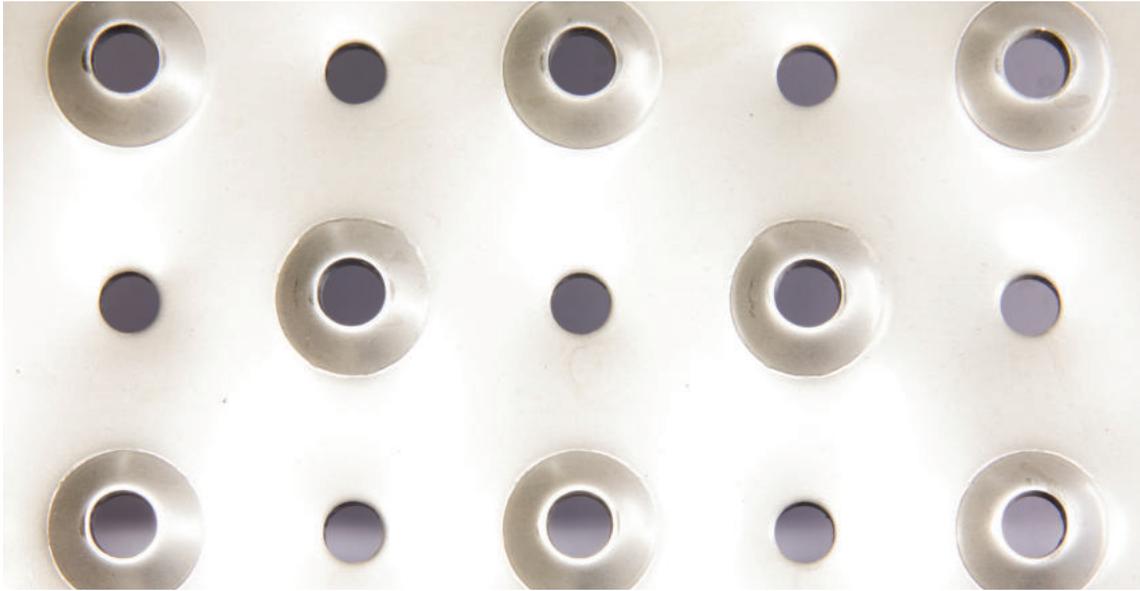


LC



**FORTOP L C - OPEN AREA 18%**

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	1



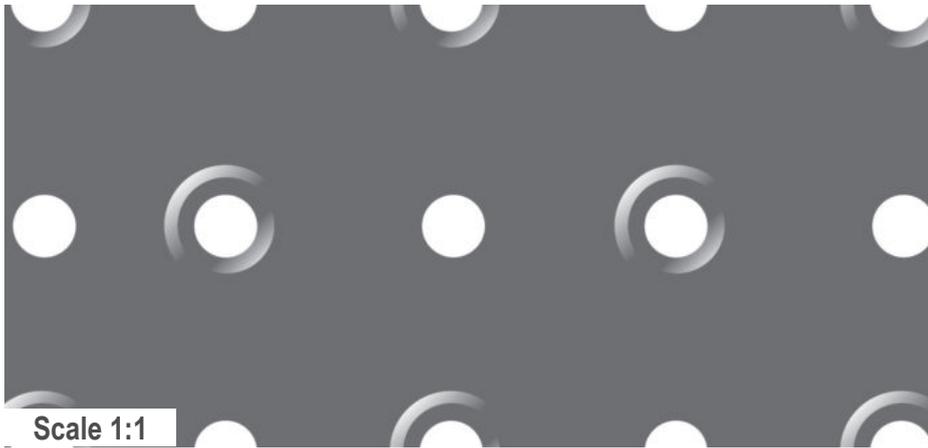
ADERSTOP® is a walkable perforated sheet with high adherence, which combines rigidity with the following characteristics:

- **360° antislip:** the countersunk round holes grant an excellent grip in any direction;
- **drainage:** flat round holes provide easy and quick drainage for liquids;
- **heel protection:** the diameter of the countersunk and flat holes is smaller than the diameter of high heels (8 mm);
- **antipanic:** transparency is limited to 10%.

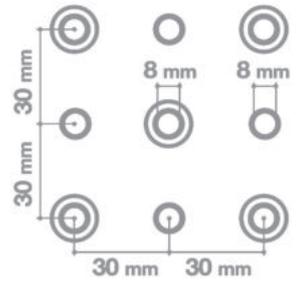
ADERSTOP® is made of mild steel or stainless steel. ADERSTOP® steps and profiles are mainly used for the construction of external safety stairs.

**Perforated Aderstop® sheets** are a combination of flat round holes with countersunk round holes in order to achieve antislip and drainage characteristics. They are commonly used for safety stairs, walkways, mezzanines, steps.

# Aderstop

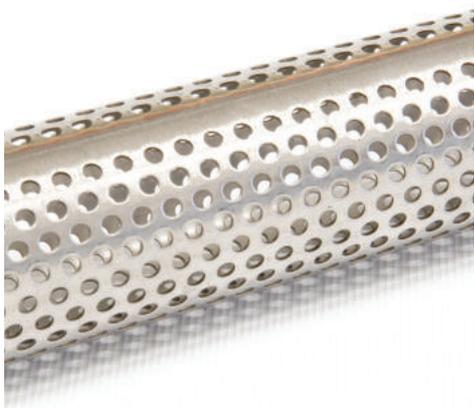


Scale 1:1



## ADERSTOP - OPEN AREA 5%

Materials	Size (mm)	Thickness (mm)
Mild steel	1000 x 2000	3
Mild steel	1250 x 2500	3
Stainless steel (AISI 304)	1000 x 2000	2



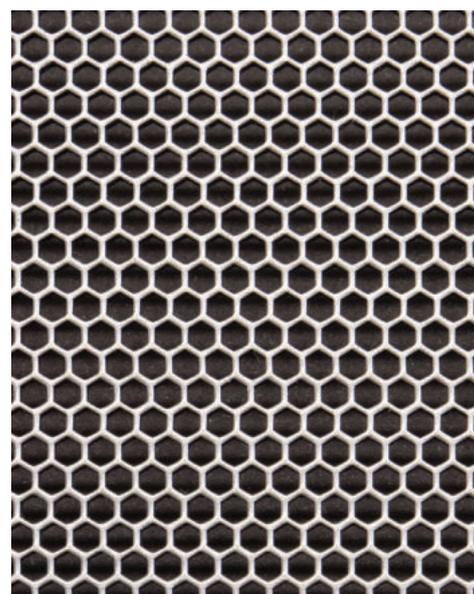
## Perforated pipes

Perforated pipes are mainly used for the automotive and agricultural sector. They are produced in stainless steel and titanium, in different thicknesses and diameters. After the process of perforation, a coil is profiled and welded. Profiling gives the perforated metal the shape of a cylinder thanks to the use of mechanical rollers. The product is later welded and cut according to the Customer's needs.



## Embossed plates

Embossed plates are metal plates on which different kinds of relief shapes are mechanically printed, with a process similar to the one used for perforated sheets. They can be used for their antislip effect where drainage is not necessary. SCHIAVETTI Lamiera forate produces them only upon request in all most common metals.



## Hexagonal holes

Hexagonal holes allow perforated metal to maintain its characteristics of high resistance even with a high ratio of open area, which is necessary when a high level of aeration rate (masks for tractors) or an excellent acoustic performance are required (microphones and speakers).

## Customized products

In addition to the production of the items on stock (with holes and size shown in this catalogue), SCHIAVETTI Lamiera forate is able to produce customized products concerning materials, size and holes out of stock. Schiavetti technical office is at complete disposal of the customers to guide them in defining the technical characteristics appropriate to the various applications with perforated plates. A constant control of the parameters of the production process ensures our best quality standards.



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