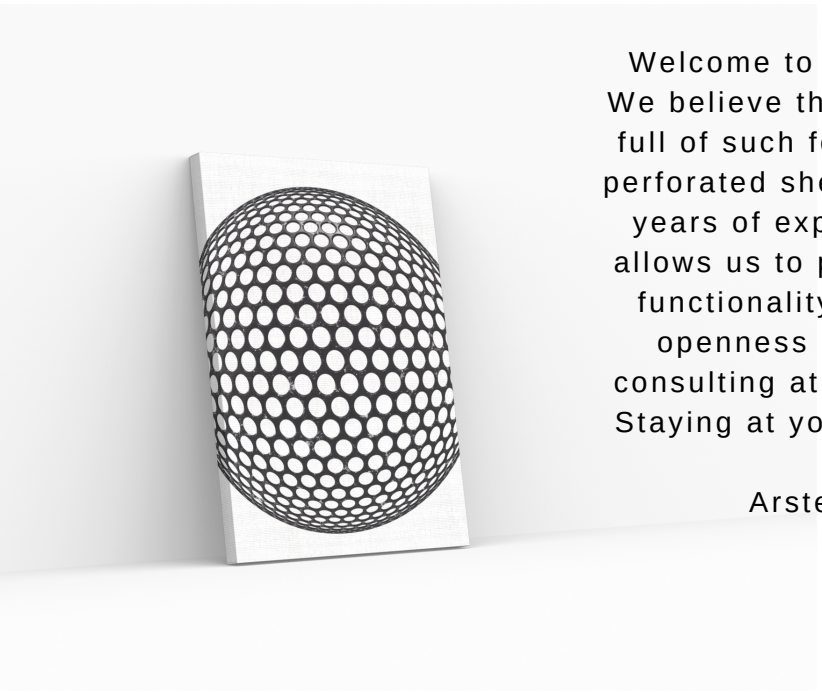
ArSteel

Quality + Knowledge+Support

ARSTEEL -CATALOGUE OF PRODUCTS



A few words about us ...

Welcome to the Arsteel website. Ars means art, beauty. We believe that steel after appropriate treatment becomes full of such features... Our offer includes a wide range of perforated sheets, expanded metal and wire meshes. Many years of experience in the area of metalworking market allows us to prepare optimal solutions in terms of quality, functionality and cost. We would like to emphasize our openness and substantive preparation in the field of consulting at every stage of investment's implementation. Staying at your disposal, we encourage you to familiarize yourself with our offer.

Arsteel = Quality + Knowledge + Support

We invite you to cooperation!

Our offer:

Perforated sheets

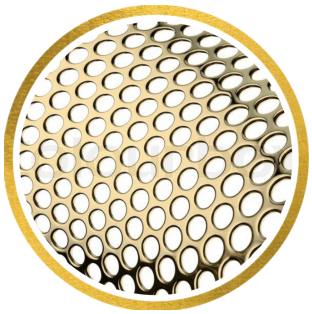
Expanded metal meshes

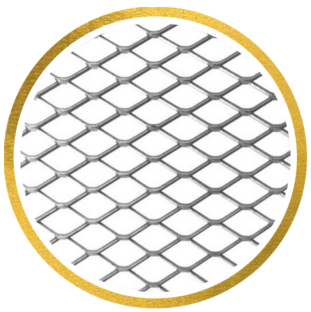
Welded meshes

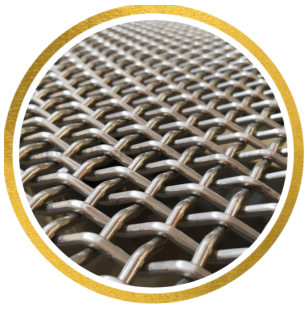
Woven meshes

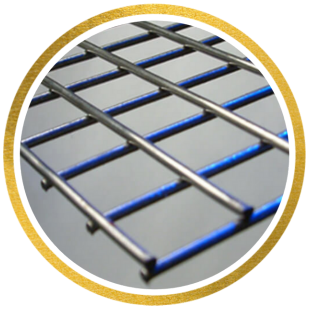
Examples of application:

- machinery and equipment casings
- balustrades and fences fillings
- ventilation parts
- facades, suspended ceilings, partition walls
- sound-absorbing screens, soundproofing walls
- small architecture (furniture, benches, bins)
- anti-slip platforms, ladder steps, chimney benches
- industrial screens, sieves, classifiers, filters









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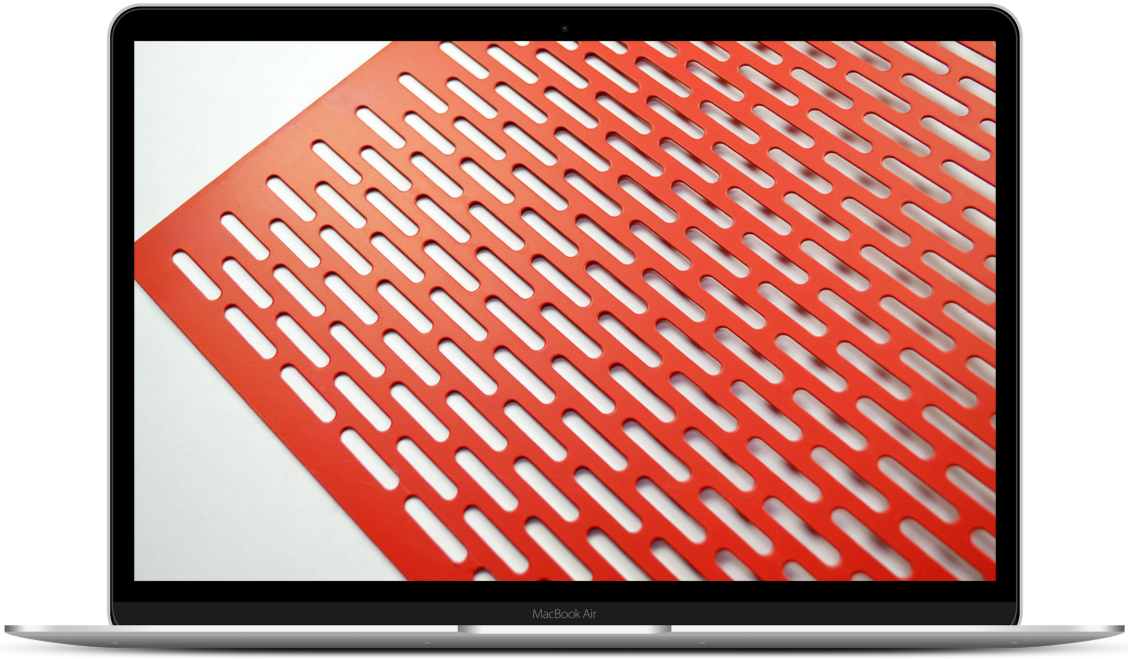
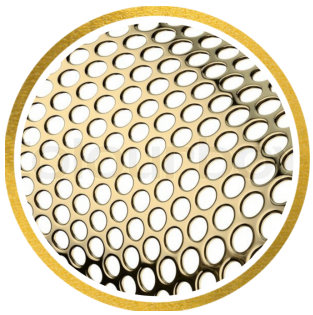
ARSTEEL -CATALOGUE OF PRODUCTS *PERFORATED SHEETS



Perforated sheets reflect a very wide range of applications. They surround us in everyday life almost everywhere, making easier to carry out daily activities or tasks. You may ask how and where? - some examples below:
In your home / apartment / office / work:
RTV equipment - virtually each of them contains perforated part that optimizes the cooling process during operation : computers, decoders, amplifiers or TV.
Household appliances - cooker hoods, ovens, ventilation devices are the items that need appropriate perforated components without which it would be impossible to use them safely.
Decorative elements in architecture, creating the interior or exterior design of buildings you rest or work in : facades, elevations, suspended ceilings, partition walls, balustrades, covers.
Perforated metal is a perfect proposal for these applications.
A very first but still current usage in heavy industry, mining and shipbuilding, i.e. as industrial screens, filters, technical sieves. Parts of machines and devices with its core made of perforated sheets (sorting lines, separators, screening drums).

List of main applications:

Architecture
Automotive
Industrial processing (petrochemical, pharmacy)
Machine industry
Food industry
Mining industry
Recycling



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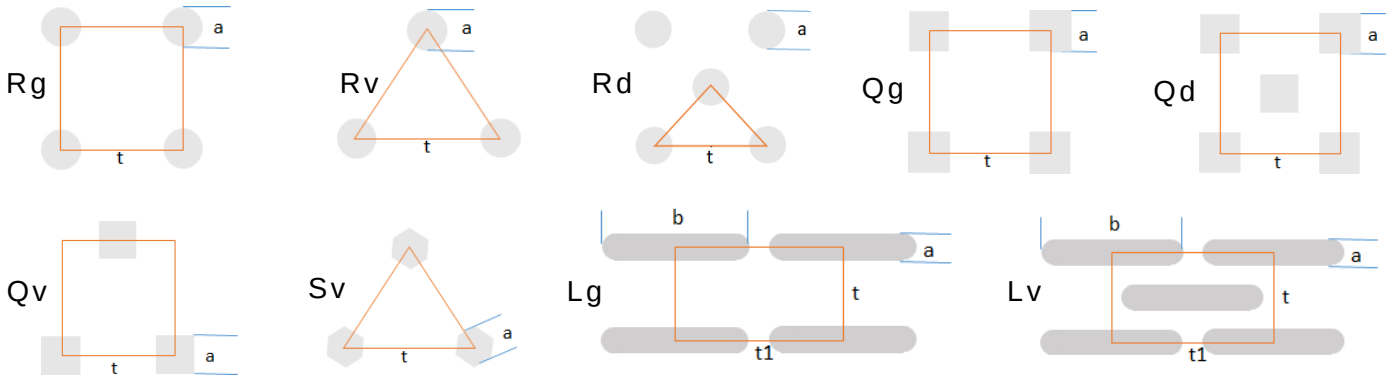
ARSTEEL -CATALOGUE OF PRODUCTS - PERFORATED SHEETS

Basic information and technical parameters:

Material – mild steel, galvanized steel, aluminum, stainless steel, acid, brass, copper.
Sheet thickness - from 0.5 to 10 mm
Dimensions: standard 1000x2000; 1250x2500; 1500x3000 mm or customized.
Margins without perforation around the plate:
As a standard, perforated sheets are produced with margins without holes around the perimeter of the sheet.
Size (width of margins) is to be determined (5-35 mm depends on the dimensions of the sheets and the type of perforation). It is possible to make sheets in accordance with the customer's suggestion (drawing), adjusting all values to the individual needs (e.g. cutting sheets through the holes, without margins). Optionally, it is possible to design several sectors on the sheet metal with additional transverse, middle and longitudinal margins.
* Due to the punching technology, the holes on back side of sheet metal have a slightly larger diameter.
* Beginning and the end of the perforated area: for the small holes and high value of clearance, it might be necessary to remove every second hole at the beginning and the end of the perforated field (graphics below).

Hole's shapes:

Round :
Rg -straight centers, Rv - staggered centers 60 degrees; Rd -staggered centers 45 degrees.
Square:
Qg - straight centers, Qv - staggered centers, Qd - caro arrangement
Longitudinal:
Lg - straight centers , Lv - stagerred side centers
Rectangular:
Pg - straight centers, Pv - stagerred side centers
Hexagonal:
Sv - stagerred centers



*Tables with hole's patterns on www.arsteel.biz

complete area

lack of row

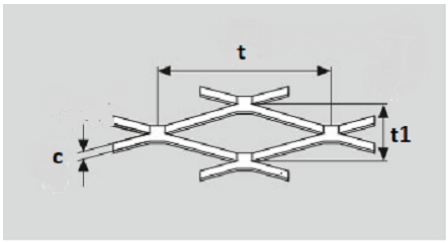
ARSTEEL -CATALOGUE OF PRODUCTS-EXPANDED METAL MESHES



Expanded metal meshes are made by simultaneous cutting and expanding of steel in sheets or coils. Thanks to this process we achieve valuable product with diamond or hexagonal meshes. An important advantage of expanded metal is relatively low cost of production (no waste material during production) and the fact that steel is physically stretched (usually about 3 times) what allows to obtain about 3 meters of the final product using only 1 meter of material. Expanded metal mesh (also known as the Ledóchowski mesh from its creator) has a 3D structure that adds value like visual attractiveness, decorative use (building facades). The application range of Ledóchowski meshes is very wide, starting from the simplest such as sieving components to the parts with modernist appearance used in architecture (e.g. facades, elevation panels) created by advanced metalworking treatment.

Examples of applications :

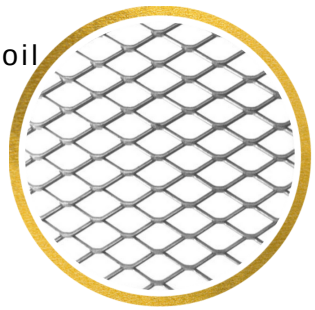
Elevations
Suspended Ceilings
Facades
Filtering and screening elements
Platforms
Ladder steps
Covers (casings)
Reinforcements



Basic technical parameters:

Raw material type - Mild steel, galvanized steel, aluminum, stainless steel, brass, copper.
Sheet thickness - from 0.5 to 4 mm
Mesh dimensions - width up to 1500 mm. Length - up to 3000 mm or in a coil

*Tables with sizes of meshes on www.arsteel.biz



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ARSTEEL -CATALOGUE OF PRODUCTS-WELDED MESHES



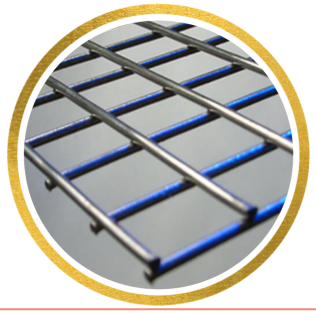
Welded meshes are produced from straightened sections of wires by a resistance welding process. They have a similar application to woven nets, but due to their stronger structure, are more often used for securing or protective purposes. In addition, they are a very popular product used in construction as reinforcement mats, strengthening the structure of concrete, walls or other load-bearing elements. Welded meshes are also used more and more often as decorative parts (filling of balustrades, fences, suspended ceilings). The decorative motif is obtained by using stainless wire with a polished surface or by carrying out additional operations such as chrome plating or powder coating.

Basic technical parameters:

Type of wire - mild steel, stainless
Wire diameter - from 2.5 to 6 mm
Dimensions - 1000x2000; 1250x2500; 1500x3000 or customized.

Mesh size (measured among the axes of the wires):
The most popular solution is a 50x50 mm mesh or its multiple (100x100; 150x150). Of course it does not exclude a wide range of other values, eg 30x30; 40x40 etc. As an additional solution rectangular meshes are available as well (for this type it is important to define the arrangement of meshes).
The nets are typically produced with open ends. As an option, it is possible to make nets with wire around the circumference (closing the ends).

*Tables with sizes of meshes on www.arsteel.biz



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ARSTEEL -CATALOGUE OF PRODUCTS - WOVEN MESHES



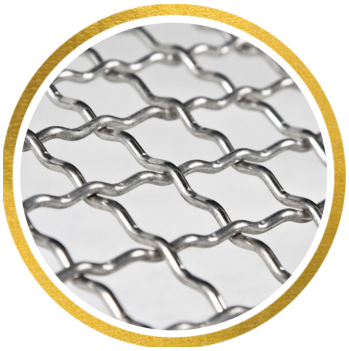
Woven nets are made from corrugated (crimped) wires by transverse and longitudinal braiding on looms. Due to the type of weave, there are single or multi-notch meshes. The single-notch type is characterized by greater strength and consistency of the mesh size, which makes them very good classifiers. That types are perfect for screens, filters or industrial screens. Multi-notch nets are products with a much more delicate structure. Individual wires braided in a module every third or fifth notch (depending on the wire thickness and mesh size). This type of mesh is used among others as filling of balustrades, fences, spans or covers (casings) of various types of devices.

Basic technical parameters:

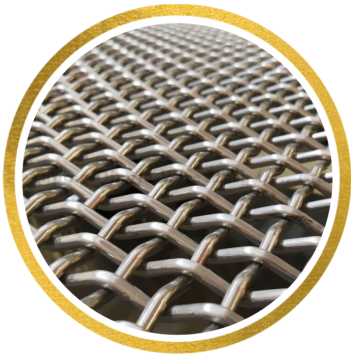
Wire type - mild steel, pre-galvanized, stainless, acid-resistant.
Wire diameter - from 1.2 to 6 mm
Mesh size - from 2 to 50 mm.
Dimensions - width up to 2000 mm. Length - up to 15 m (roll version).

*Tables with sizes of meshes on www.arsteel.biz

One notch meshes



Multi-notch meshes



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