



**SORST**  
STRECKMETALL



# CONTENTS

EXPANDED METAL	3
MICROMESH	4
FINE MESH	5
MEDIUM MESH	6
LARGE MESH	7
MESH GEOMETRY	8
DIAMOND MESH	8
EXPERF	8
SQUARE MESH	9
HEXAGONAL	9
FURTHER PROCESSING	9
USEFUL INFORMATION ABOUT EXPANDED METAL	10
CONTACT	12





---

# EXPANDED METAL

The SORST locksmith's shop, originally founded by Wilhelm Sorst, was split into two business units in 1998. Since then, Sorst Streckmetall GmbH has taken over the production of expanded metal and moved into the current premises in Wohlenbergstraße in the north of Hanover.

Today, as a medium-sized company with a team of around 65 employees, we produce almost 6,000 tonnes of expanded metal per year - from aluminium, steel, stainless steel, galvanised steel, nickel, copper, titanium and much more. - exclusively Made in Germany!

Our many years of experience with expanded metal cover a wide range of meshes: whether very small meshes, which we call micromesh, are used in automotive or filtration applications, for example, or very large meshes that can be used for architectural projects. We specialise in finding suitable solutions for a wide range of industries and applications. After all, our technicians know that every market has its own rules of the game and this is the challenge we seek.

Since July 2022, we have been part of the international family-run company MEISER. As a result, our sales network has expanded globally. The personal and close contact with the international production sites and subsidiaries facilitates the connection to our customers all over the world.

Therefore, we are pleased to expand our know-how and also our possibilities around product development every day. On the way from the idea to the finished product, we accompany our customers through personal and individual contact, no matter on which continent. Every challenge is a further incentive for us to contribute our knowledge to the most diverse industries and to develop innovative product solutions for our customers.



---

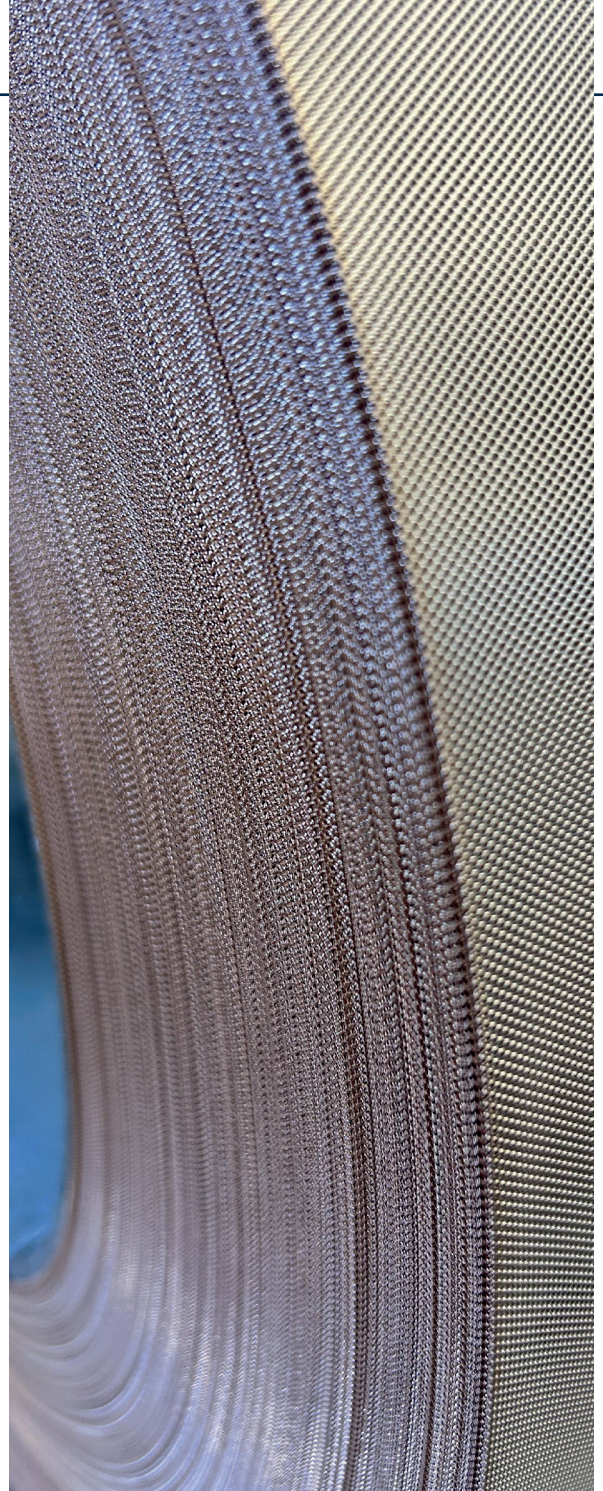
# MICROMESH

**Micromesh** covers the range of the smallest mesh lengths. This refers to meshes between 0.5 mm and up to 6.0 mm in length. Micromesh has many advantages. Among other things, it offers high dimensional stability, especially at the edges. Nevertheless, it is deformable and, like all expanded metal, economically efficient. Likewise, with Micromesh, high free cross-sections can be achieved with a homogeneous surface. Fraying at the edges can be excluded.

In many cases, Micromesh can be used as an alternative to metal mesh and perforated sheeting.

Micromesh is suitable for many applications. These are mainly:

- Shielding
- automotive
- battery
- Renewable energies
- Filtration and screening
- Loudspeaker
- Carrier material





---

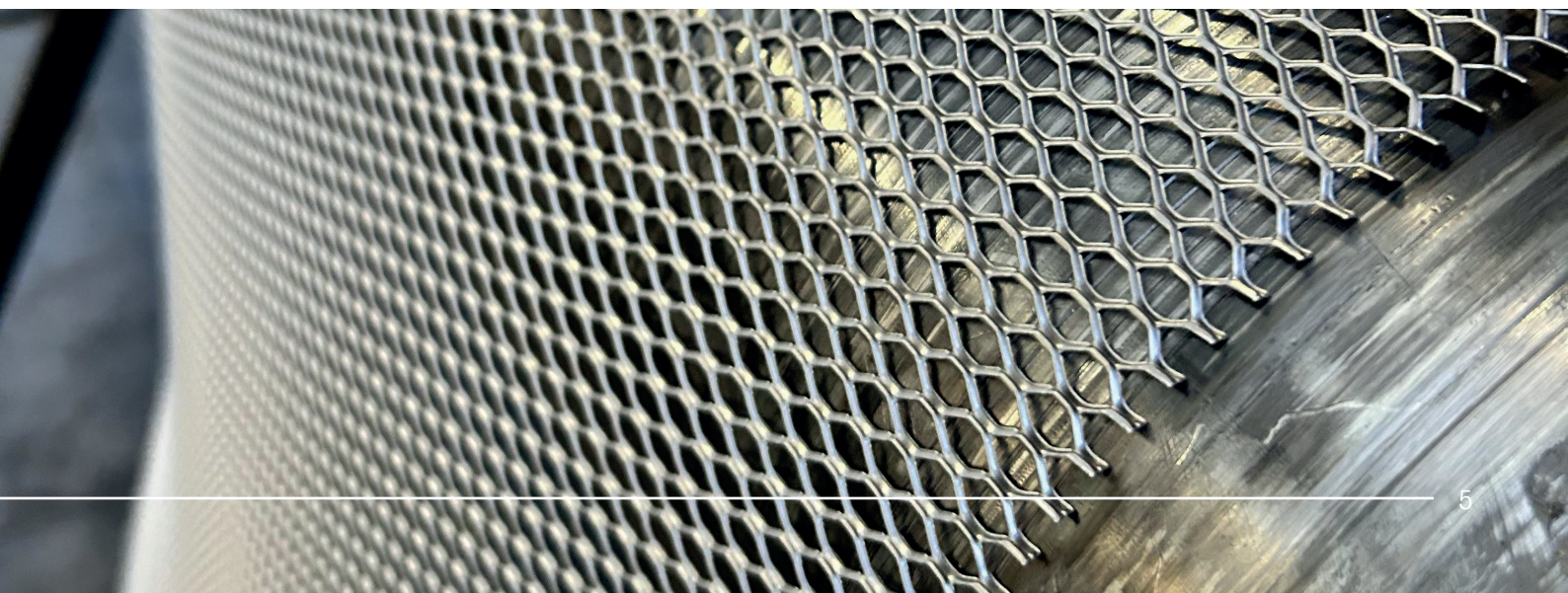
# FINE MESH



**Fine mesh** covers the range from a mesh length of 6.0 mm to 22.0 mm. Fine mesh also has good formability, as the mesh can be bent, refined or deep-drawn, for example. Both with a structured, three-dimensional surface and flat-rolled, fine mesh finds numerous applications. Here, too, the good economy and the high achievable free cross-sections are an advantage.

Fine mesh is particularly suitable for the following applications:

- Shielding
- automotive
- roof application
- Ceiling cladding
- Design and tuning
- Renewable Energies
- Filtration and screening
- Insect protection
- Ventilation
- Furniture
- Sound and noise protection
- Carrier material
- Lost formwork



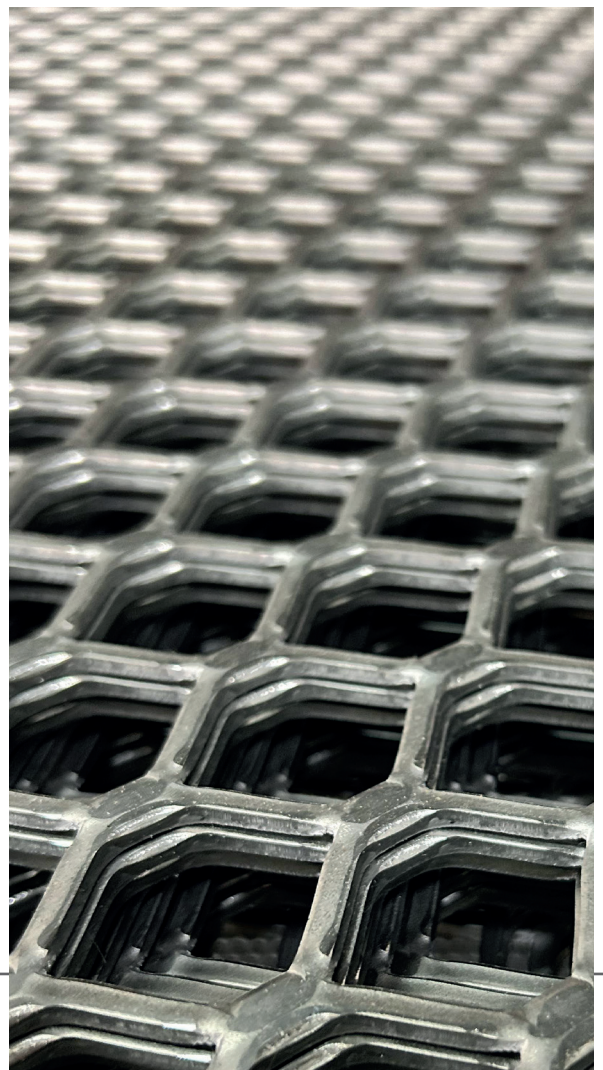
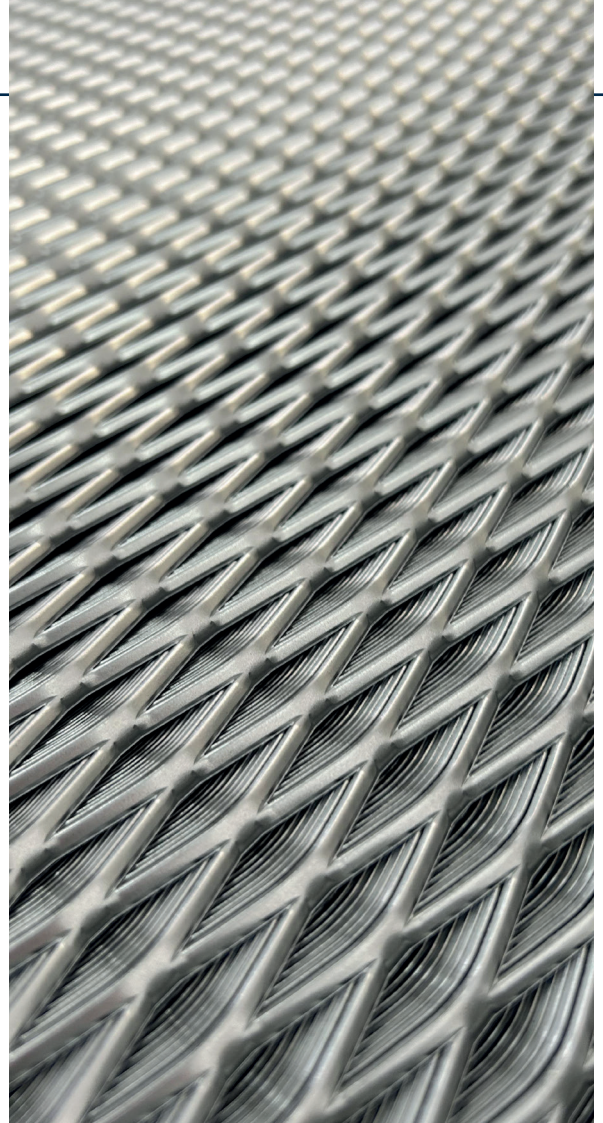


---

# MEDIUM MESH

**Medium mesh** covers the range with a mesh length from 23.00 mm to 61.0 mm. Expanded metal in these mesh ranges can be found in almost all areas of our daily life. Here, too, high free cross-sections can be achieved with great economy. Due to the high dimensional stability, the meshes can be cut to any size. Both three-dimensional and flat-rolled, the centre mesh is used in the following areas:

- Ceiling cladding
- Balustrade and balcony fillings
- Grating cladding
- Household appliances and household goods
- Walkways and floors for metal pallets
- Ventilation
- Trade fair and shop fitting
- Furniture and street furniture
- Fences

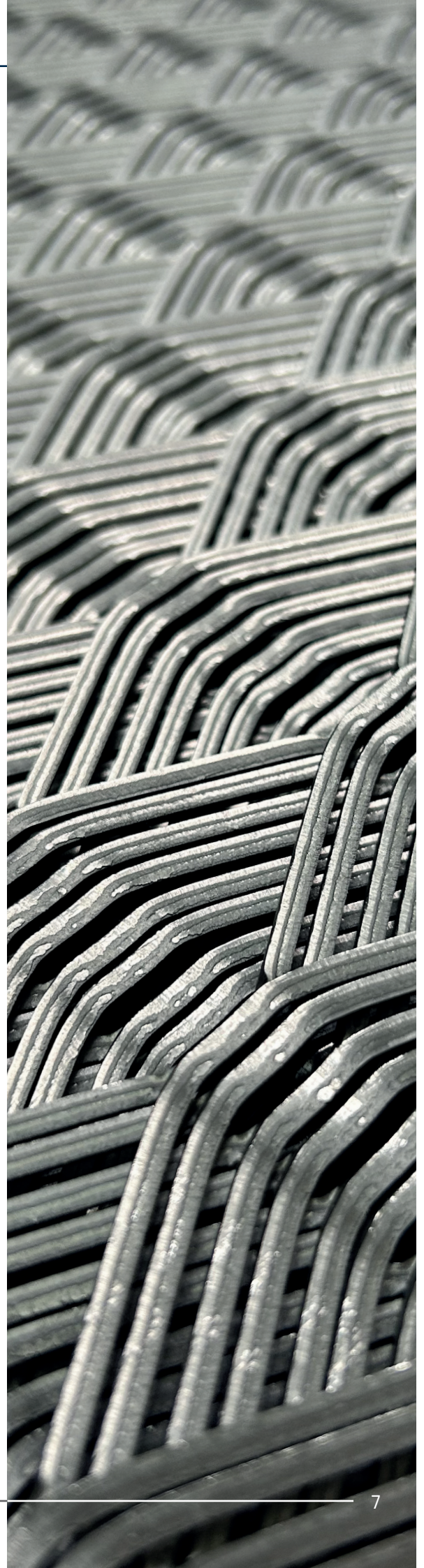




# LARGE MESH

**Large mesh** covers the range with a mesh length from 62.00 mm. Here, too, the greatest advantages are the high dimensional stability as well as the basic advantages of expanded metal, the high economic efficiency and the high free cross-section. Above all, large mesh is used in the following areas:

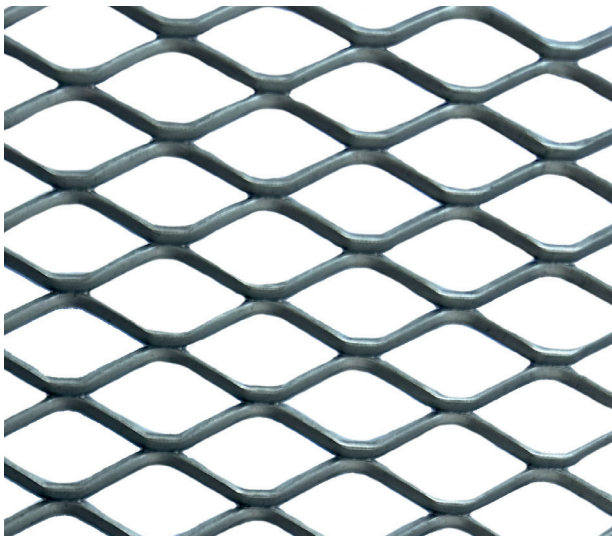
- Architecture, for example as facade or sun protection.
- catchment protection
- Wood drying
- Industrial baskets
- Walkways and floors for metal pallets
- Trade fair and shop construction
- Furniture and street furniture
- Fences



---

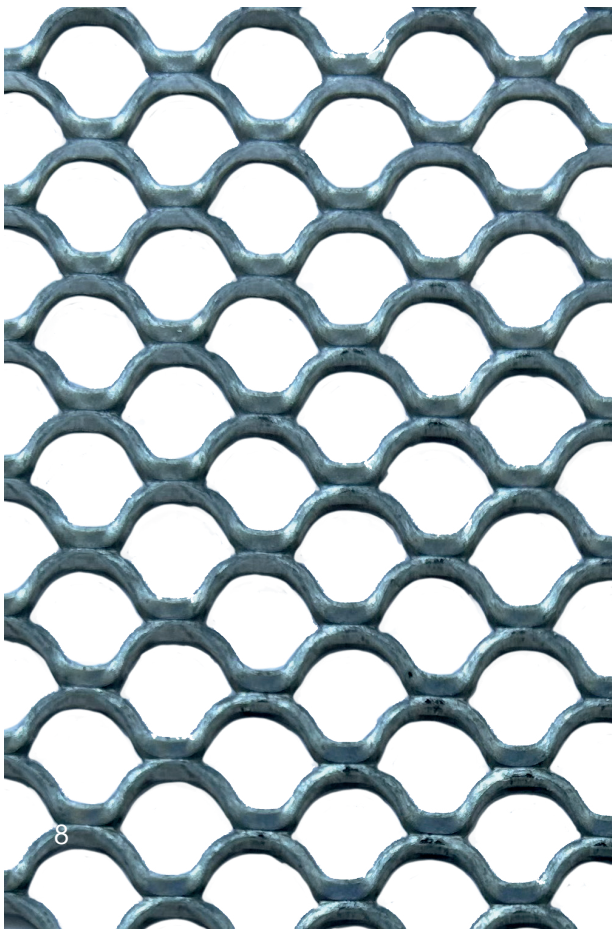
# MESH GEOMETRY

Expanded metal does not always look the same. On the contrary. Due to the great variety of mesh sizes, materials or further processing methods, countless unique products can be produced. For a better overview, a distinction is made not only in mesh size but also in mesh shape.



## DIAMOND MESH

In most cases, the meshes of expanded metal have the shape of a rhombus.



## EXPERF

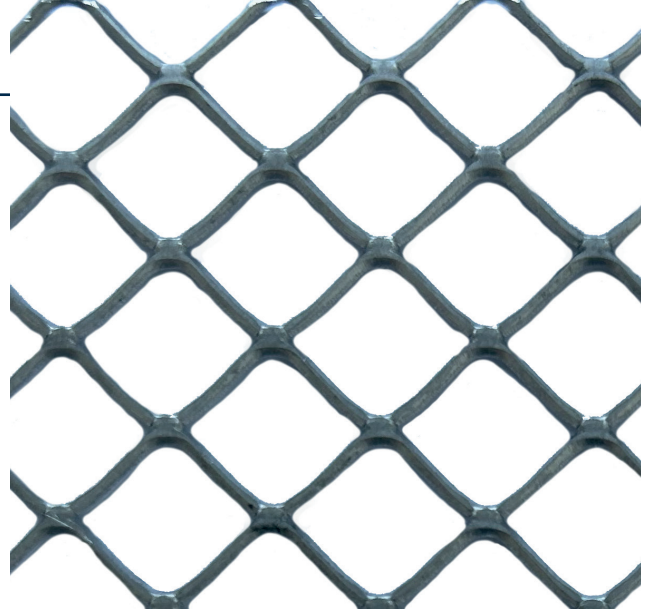
Expanded metal is often considered the cheaper and more sustainable perforated sheet. In an Experf mesh, the mesh shape resembles a round hole.



---

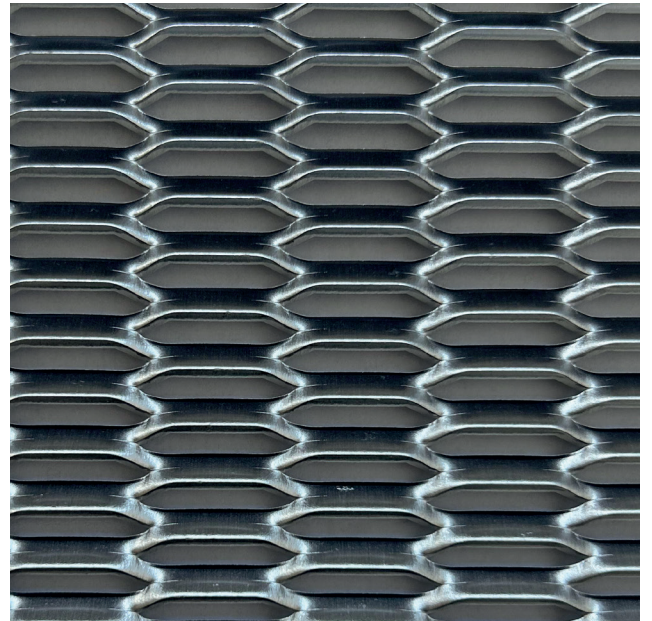
## SQUARE MESH

As a rule, expanded metal is rolled flat in square mesh, resulting in a large free cross-section with comparatively small mesh openings.



## HEXAGONAL

The hexagonal mesh clearly stands out due to its special appearance.



## FURTHER PROCESSING

In addition to pure expanded metal, we also offer further processing. In this way we would like to offer our customers the greatest possible complete service. We can offer the following further processing options:

- Anodising
- degreasing
- Flat rolling, calendering or pleating
- Notching, drilling, lasering, edging and hole punching
- Subsequent hot-dip galvanising and electrolytic galvanising
- Powder coating according to RAL
- heat treatment

# USEFUL INFORMATION ABOUT EXPANDED METAL

## Mesh Length (ML)

Measurement from knuckle centre to knuckle centre in the direction of the long diagonal

## Mesh Width (MB)

Measurement from knuckle upper edge to knuckle upper edge in the direction of the short diagonal

## Strand Width (SB)

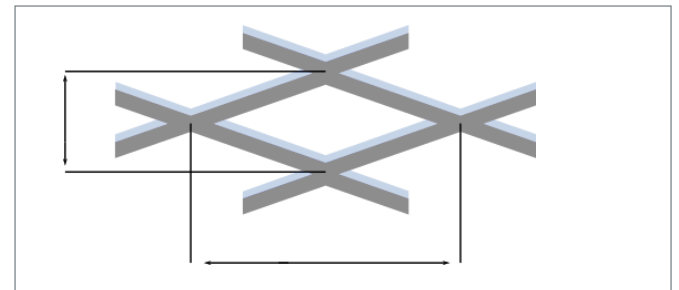
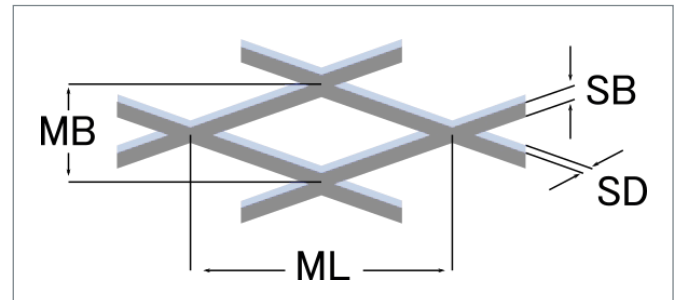
Width of the remaining material between the openings

## Strand Thickness (SD)

Thickness of the employed material

## Mesh Apertures

The aperture between four strands measured vertically to the plane of the expanded metal mesh



## Knuckle (1)

Intersection of four abutting strands

## Knuckle Length (2)

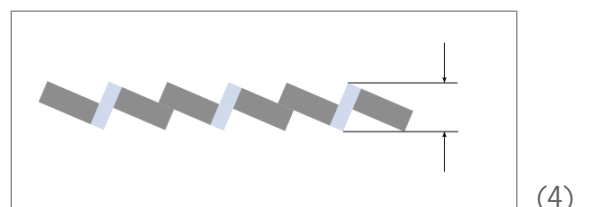
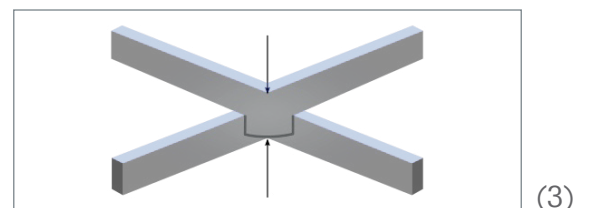
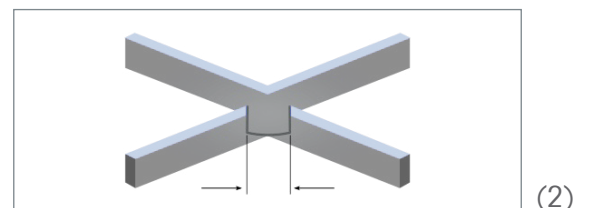
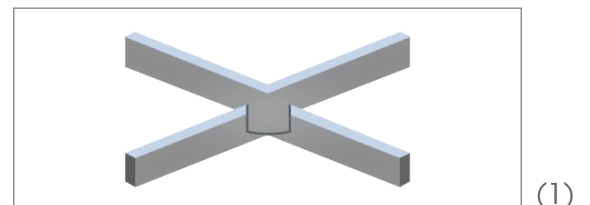
Measurement between two long diagonals

## Knuckle Width (3)

Approximately double the strand width

## Expanded Metal Mesh Thickness (4)

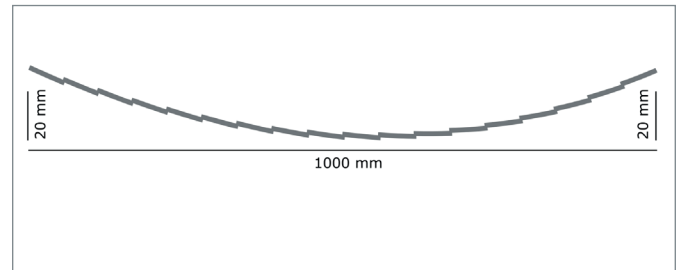
Total thickness of the expanded metal mesh





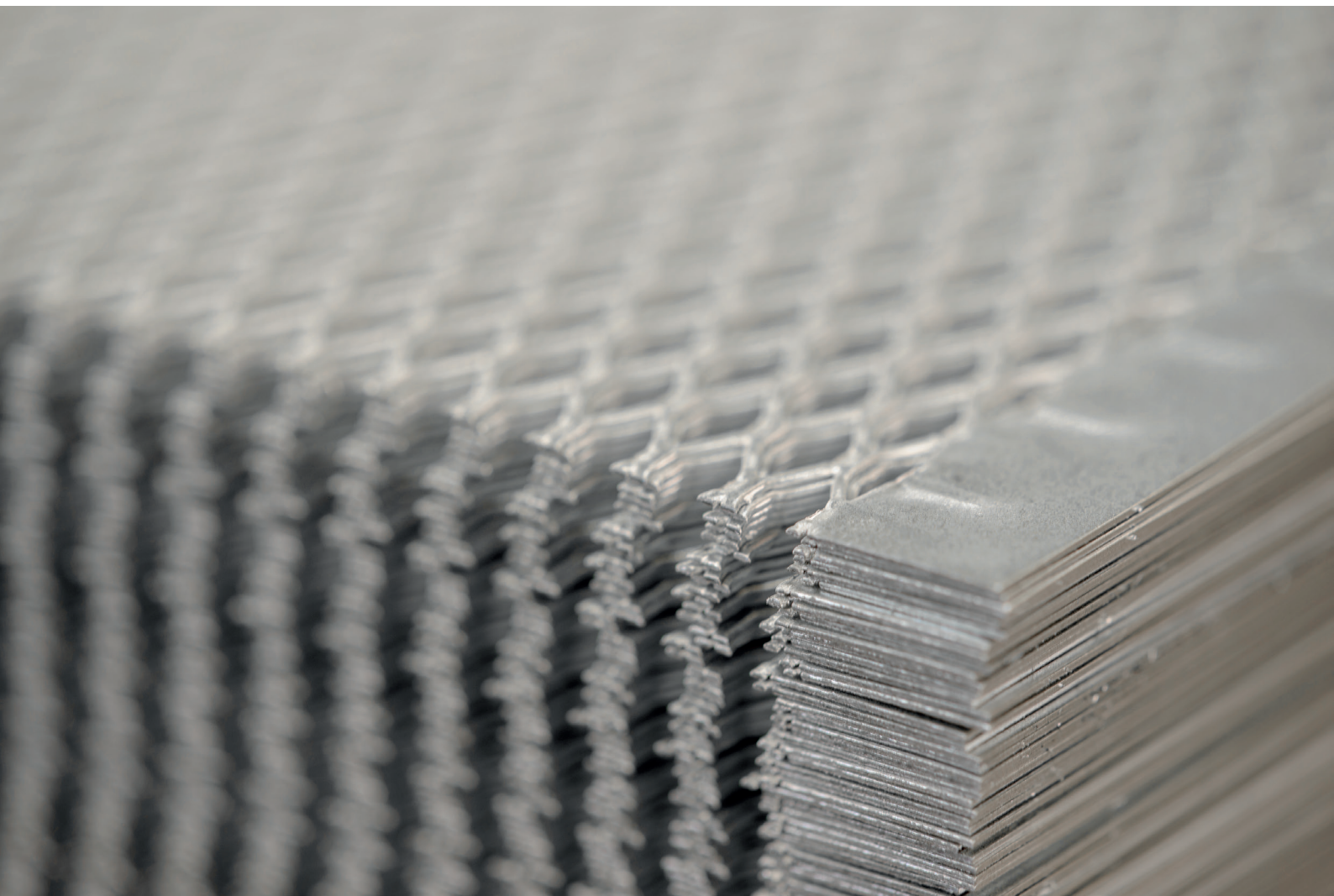
### Planarity

The expanded metal mesh sheets are considered to be planar if, when placed on a flat surface with the curvature facing upwards, the greatest distance between the sheet and the flat surface does not exceed 20mm (over a width of 1000mm). In the case of heat-resistant sheets a distance of 40mm is allowed.



### Curvature

The expanded metal mesh sheets are considered to be straight along the longitudinal edge if the curvature midpoint of a sheet with a metal thickness of up to 3mm shows a deviation of not more than 1.5% of the length of the straight line. For sheets with a thickness of 3mm or more the deviation may not exceed 2% of the length of the straight line.





## CONTACT

To be really close to your wants and needs, SORST Streckmetall GmbH relies on an old but proven sales strategy: personal support.

Rely on short distances and trust in reliable contact persons, who will advise you with experience and expertise, show you possible solutions and also immediately will be there to help you if things don't run as smoothly as they should.

Sorst Streckmetall GmbH  
Wohlenbergstr. 11  
D - 30179 Hannover

Tel: +49 (0) 511 67 67 56 50  
Fax: +49 (0) 511 67 67 56 56

E-mail: [info@sorst.de](mailto:info@sorst.de)  
[www.sorst.de](http://www.sorst.de)

In our opinion, this is the only right way to ensure that your needs are taken on board. We will not abandon this path, because it is the path of quality and reliability, which begins with the products and that does just not end with customer service.

**Our team is at your service.**

