



YOUR MESH SOLUTIONS



[www.tammet.fi](http://www.tammet.fi)



Quality since  
**1946**

## A traditional metal company

Tammet Oy was founded in 1946 when Industrial Counsellor Pehr Sommar established the company in the city of Tammisaari in Southern Finland. At that time, after World War II, there was a lack of companies manufacturing metal meshes and wire products in Finland. Since 1946 we have developed and expanded our operations.

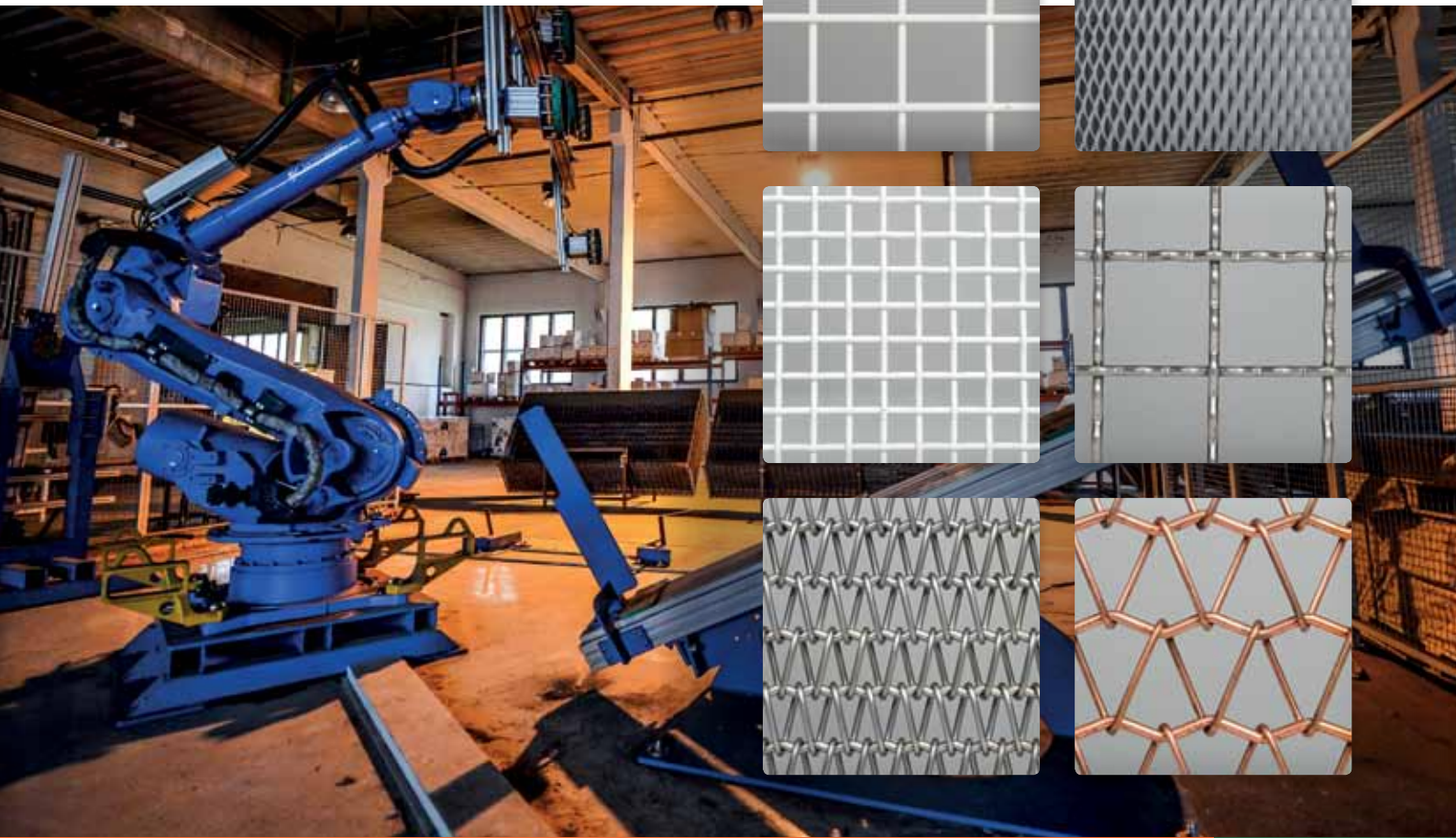
Our strong traditions enable us to offer comprehensive knowledge and extensive experience in the field. Today, we deliver everything from protective mining meshes to special shaped facade meshes that have been manufactured in accordance with architect's designs.



# Our solution to your every metal mesh need

When you choose Tammet Oy as a partner, you can be sure to have a reliable, first-rate, and modern partner. We will help you to find the best solutions to fit your metal mesh needs. With our modern machines, long and solid experience, and extensive expertise, we can guarantee good quality and service.

Our quality system is certified by Inspecta and it meets the requirements of the ISO9001-2008 standard. In addition to Finnish domestic markets, we also have significant export markets. At the moment, Sweden is our largest single export country.





*Verkkokauppa.com department store, Jätkäsaari, Helsinki.*



# FACADE MESHES

Metal meshes and metal mesh mats can be used for creating exciting and unique facades for buildings. In addition to the fact that facade meshes provide a modern and clean look and style, they are very durable. They are easy to shape, which makes them suitable for different types of buildings. Together with architects, we have implemented many different facade projects.

**We have provided facade meshes, for example, for the following well-known buildings:**

- Verkkokauppa.com in Jätkäsaari, Helsinki
- Sweden Post's headquarters in Solna
- Arcada University of Applied Sciences in Helsinki

**We provide following material solutions for facades:**

- Expanded metal (steel, aluminium, copper)
- Metal mesh mat (stainless steel, acid-resistant steel)
- Welded meshes (hot galvanised, powder-painted)
- Crimped meshes, pressed (galvanised, stainless steel, acid-resistant steel, powder-painted)



# DECORATIVE MESHES



Metal mesh is an ideal solution for protective surfaces but it can be used also as an aesthetic decorative detail. Metal meshes and mesh mats create a unique and modern impression to the interior. They work perfectly in an environment, in which daylight or artificial light is wanted to be taken advantage of.

In the lobby of Kirkkonummi town hall, there is a mesh mat made of copper wire, which is one of Tammet's special projects. The mesh mat is not only a protective element around the stairwell but it is also a stylish and beautiful detail in the interior.

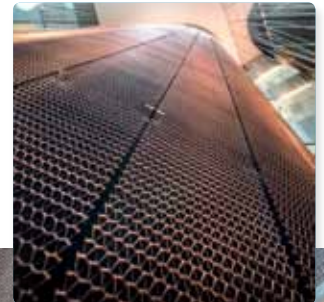
**Our decorative meshes can be found in the following famous buildings:**

- Media Centre Lume of the Aalto University School of Art and Design in Helsinki
- Art Museum of Estonia in Tallinn
- Åbo Akademi University's Arken building in Turku
- KEVA (Local Government Pensions Institution) headquarters in Helsinki

**Our decorative products include:**

- Expanded metal (powder-painted steel, copper, stainless steel, aluminum)
- Welded metal meshes (powder-painted, electro galvanised, stainless steel)
- Metal mesh mats (copper, stainless steel, acid-resistant steel)
- Crimped protective meshes (powder-painted, stainless steel, acid-resistant steel)
- Suspended ceiling meshes (welded, powder-painted expanded mesh)

*Kirkkonummi town hall.*





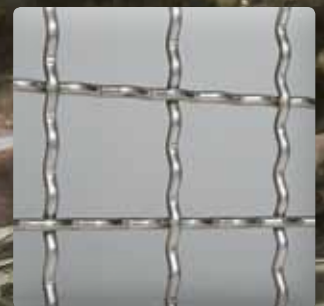
# PROTECTIVE MESHES



## Welded protective meshes

Welded protective meshes are made of steel wire that can be powder-painted in shades of the RAL colour chart or alternatively hot or electro galvanised. The mesh can be easily shaped and cut. Meshes are delivered as flat sheets on a pallet, which facilitates the transport of the product and protects the mesh against damage in transit. Welded protective meshes can be used, for example, as suspended ceilings, facades, partition walls, and machine protection.

Wire dimensions of standard meshes are  $\varnothing$  2.8..4.8 mm. The wires meet the requirements of the EN ISO 16120-2:2011 standard. On special request, welded protective meshes can be manufactured up to the wire strength of  $\varnothing$  8.0 mm.



*Keilaniemi metro station, Espoo.*



## Crimped protective meshes

Crimped protective meshes are made of black or galvanised steel wire. The meshes can be powder-painted in shades of the RAL colour chart. Black and hot galvanised steel wires meet the requirements of the EN ISO 16120-2:2011 standard.

Meshes can also be custom-made in acid-resistant wire.

**Protective meshes are weaved of pressed steel wire:**

- One-sided pressing (YP) forms an even upper surface for the mesh.
- Corrugated pressing (PP) forms an identical surface on both sides of the mesh.

## Expanded metal

Expanded metal is manufactured by cutting and stretching plate metal. Tammet's expanded metal is durable, easy to shape, and an impressive product for many different purposes.

Expanded metal is made in different gauges, feed rates, and strengths. Expanded metal can be powder-painted in shades of the RAL colour chart or alternatively hot or electro galvanised.

**Materials used in standard products are as follows:**

- Cold-rolled steel, strength 1...2 mm
- Hot-rolled steel, strength 3...5 mm

These materials can be welded.

Expanded metal is made of stainless, acid-resistant and galvanised plate metal. In addition, it can be made of aluminium, brass, or copper.



# GABIONS



In landscape construction, gabions (baskets of stone) are used for preventing the sagging of soil, but they are also used as walls and architectural features to give a special look both in outdoor and indoor settings.

We manufacture gabions of welded mesh on special request. There are many alternatives for wire and mesh size. Gabions are hot galvanised after welding. This guarantees long durability and service life of the gabion. All gabions are custom-made.

The marketing and sales of the gabions is managed by our partner Viacon Oy.

*Gabion construction / noise barrier, Kivikko, Helsinki.*







*Leinälä station, Vantaa.*







# MINING MESHES

Tammet Oy manufactures rock reinforcing meshes for mines. The mining meshes are made of special wire that is rigid but still easy to bend and shape. This allows the mesh to be easily shaped to fit the rock wall. The combination of rock reinforcing bolts and the mining mesh strengthens the rock wall and prevents cave-ins.

**There are two ways of using mesh reinforcement for rock walls:**

- Reinforcement of the rock wall with rock reinforcing bolts and mesh. A layer of fibre concrete will be sprayed over the mesh.
- Reinforcement of the rock wall by installing rock reinforcing bolts and the mesh directly on the rock surface using a so-called dynamic reinforcement method.

The size of the mining meshes is optimised in a way that makes the installation of the mesh as easy as possible and that the maximum number of meshes can be transported at once. The quality of each delivery will be checked – this way we will ensure that the characteristics of the material correspond to the given values.



# EDGE PROTECTION BARRIERS

Tammet Oy manufactures edge protection barriers for construction site's protective systems. Our partners in Finland, the Nordic countries and Europe use our edge protection barriers in their safety systems. The barriers are manufactured in a specially designed production line in a flexible way and according to customer specifications.



## TAMMET PLASTERING MESH

Tammet's plastering mesh is usually used as a binding material for the coating of plastered surfaces. Welded and hot galvanised plastering mesh prevents the surface from cracking. The plastering mesh ensures a high-quality result. The installation of the plastering mesh is easy, thanks to its dimensional accuracy and lateral rigidity. The mesh can also be easily shaped and cut.

Plastering mesh is mainly used when plastering or renovating the external surfaces of facades. An excellent strength and durability of the mesh ensures that it can also be used without modification as a supporting mesh for underfloor heating cables or as different kinds of protective mesh.





QUALITY - FLEXIBILITY - RELIABILITY

Quality since  
1946



*Sweden Post's headquarters in Solna.*



*Media Centre Lume of the Aalto University School of Art and Design.*



*Kirkkonummi town hall.*



*Leinelä station, Vantaa.*



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