

Forge-welded gratings | Pressure-locked gratings | Perforated metal planks | GRP gratings | GRP profiles | Chequer plates  
Spiral staircases | Stairtreads | Ladder rungs | Steel Service | Hot dip galvanising



# Lichtgitter – Innovation in the storage field The efficient alternative

 **lichtgitter**



## Lichtgitter – Everything from one source

A bright outlook since 1929

Lichtgitter was established in 1929 in order to carry out the specialized manufacturing of gratings. By the continuous monitoring of our performance, and quality systems, together with innovation in manufacturing techniques, we have ensured Lichtgitter's place in the forefront of manufacturers of forge-welded gratings, pressure-locked gratings and perforated metal planks worldwide.

Our current product range also includes the distribution of GRP-gratings, profiled chequer plates, spiral staircases, straight staircases and ladder rungs. Together with our steel slitting service centre and hot dip galvanizing plant we provide a complete fabrication facility to our customers. Lichtgitter is certified according to DIN EN 9001:2008, and complies with all European and International Standards.



## Lichtgitter – Shelves made of perforated metal planks

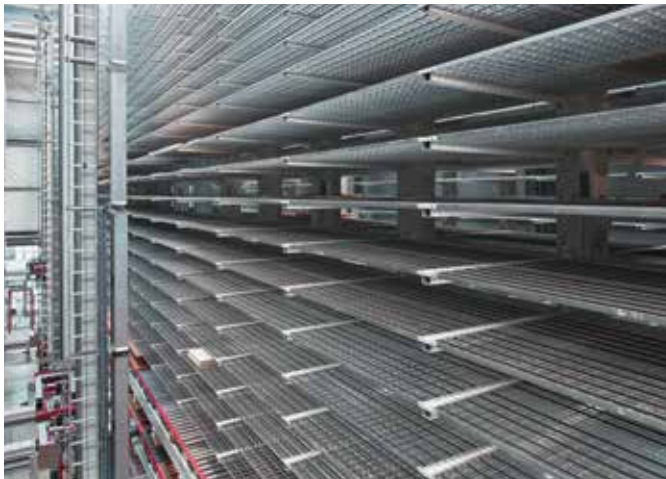
Provide what they promise

Our knowledge of steel is based on decades of experiences, especially in the production of gratings and perforated metal planks. We are a competent and reliable manufacturer of project linked contracts for industrial and architectural tasks. Our experienced and competent staff is pleased to develop solutions which are exactly in line with the customers requests or to create new application areas. Therefore, we are at the forefront of new innovative possibilities of our perforated metal planks in the storage field. The advantages are clear, since our system combines a variety of applications:

**Cost-efficiency, speed, security in combination with an outstanding visual appearance.**

Our shelves made of perforated metal planks simultaneously fulfill several requirements of a racking system. So we only need **2 components** per cantilever (a rack and a lower shelf). In conventional designs, **3 components** are required (racks, lower shelves and crossbeams).





## Lichtgitter – Alternatives

Please don't forget

Of course, we also offer you our established pressure-locked gratings in most required types for shelving areas. Please consider the following products from our wide range of industrial floorings.



## Lichtgitter – Product overview

Everything from one source

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Forge-welded gratings

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Pressure-locked gratings

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Perforated metal planks

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GRP-gratings

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Chequer plates

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Spiral staircases

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Stairtreads

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Ladder rungs

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Steel Service

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Hot dip galvanizing

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## Lichtgitter – The efficient alternative

### Your important advantages at a glance

#### **Bridging of large spans**

The enormous possibilities of safe-load properties for large spans and cantilevers, can lead to potential savings. Depending on the load capacity spans up to 1,80 m or larger form no problem for the perforated metal planks.

#### **Available production lengths**

Large investments in the latest state of the art roll-former allow Lichtgitter to produce perforated metal planks with lengths up to 10 m.

#### **Extremely fast assembly**

The large bottom plates of for example 1,2 m x 7 m are only be fixed at the 4 corners with special form-locking fixings. Therefore you get lower assembly costs and potential savings regarding fixings.

#### **Placed safety**

Due to the large dimension of the bottom plates (offer bridging 3 to 4 bays) it is almost impossible that the planks could hang up on the stored goods by adhesion or traction. So a lift of the shored goods can be avoided.

#### **Materials and Finishes**

Perforated metal planks can be produced of steel, stainless steel and aluminium. Various alternatives regarding surface treatment and surface structure are possible.

#### **Light and water permeability**

Significantly higher light and water permeability in contrast to chipboard as shelves. Due to the different surface structures, an open area of approximately 50 % can be achieved.

#### **Lower shelves of perforated metal planks offer four convincing advantages with regard to loading:**

1. Acceptance of larger working loads (payloads). Almost all current shelf loads and distributed loads are possible.
2. If the perforated metal plank can bridge several bays (3 or 4 bays) there are further improved load capabilities of 10 – 17 %.
3. Due to the bolting together of perforated metal planks an integral deck is formed (for example 1,2 m x 7 m). The complete deck and its connection affects the rigidity and stability. Therefore horizontal bracings are not necessary to ensure stability.
4. By varying the individual plank widths, plank depths, and the material thickness we can adjust the payloads, according to the motto “less weight – lower price”.

**Result:** These economic and statical benefits should not be reached by any other well-known shelf floor.





## Lichtgitter – Applications

Your request – Our solution

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Cantilever type shelves

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Standing shelves

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Car shelves

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Logistic centers

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Walkways and areas outside of the shelves

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Office shelves

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Archive shelves

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Tyre shelves

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Mobile shelving systems

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And many other additional applications

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## Lichtgitter – Perforated metal planks

Quality prevails

With the founding of another manufacturing facility in 1986 in Sulz a.N., the extensive product range of the Lichtgitter GmbH was supplemented by perforated metal planks. Many years of experience have added the Work in Sulz to the Lichtgitter-Competence Center for perforated metal planks.

Due to a re-organisation various investments for example in an additional latest state of the art roll-former, we can offer you not only shorter delivery times but also a larger product range.

### Your advantages are:

1. Perforation in various surface patterns and fabrication of the length on CNC steered and punching machines, with a high press capacity and enormous speed
2. Roll-forming to a C-Profile across many types on a machine which has been especially developed for us.
3. We ensure a constant high quality and compliance with specified tolerances, despite our high production speed.
4. We are able to produce special gratings to meet the demands of our customers, regarding load capability, height and width restrictions.
5. Manufactured lengths can vary up to a maximum of 10 m, only limited by transportation, handling and weight factors.
6. Production guaranteed because of two latest state of the art roll-formers

**EVERYTHING FROM ONE SOURCE:**

forge-welded gratings, pressure-locked gratings,  
perforated metal planks, GRP-gratings,  
chequer plates, spiral staircases, stairtreads,  
ladder rungs, hot-dip galvanisation, steel service

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