

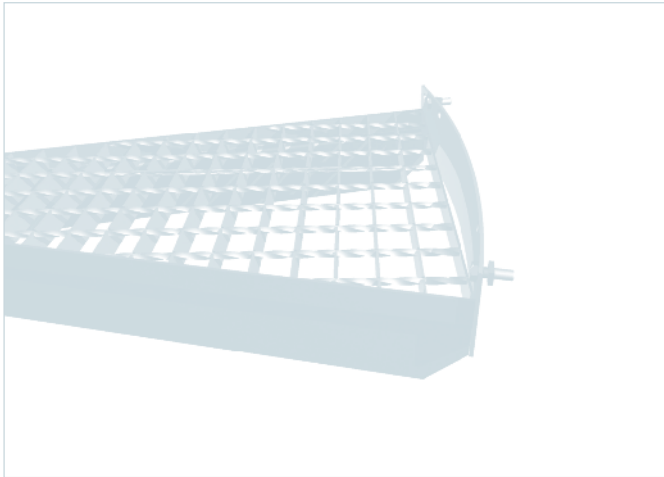


# We take you safely to the top

## Lichtgitter Spiral Staircases



**Spiral staircases** | Forge-welded gratings | Pressure-locked gratings | Perforated-metal planks  
GRP-Gratings | Chequer plates | Stairtreads | Ladder rungs | Steel Service | Galvanizing



## Spiral Staircase Type LG Standard

### Application

Industrial construction

Privacy (e.g. with handrail of stainless steel)

### Technical details

Galvanized according to DIN EN ISO 1461

Diameter 1.200 – 2.000 mm

Production according to EN1090

Load 3,0 kN/sqm and 2,0 kN/sqm single load according to DIN 1055-8, category T1

### Advantages

Modular system

Simple assembly

Short delivery times

Various designs of stairtreads

Individual landing forms







## Spiral Staircase Type LG Special

### Application

Espace staircase  
Industrial construction  
Locations with high public traffic  
High altitudes

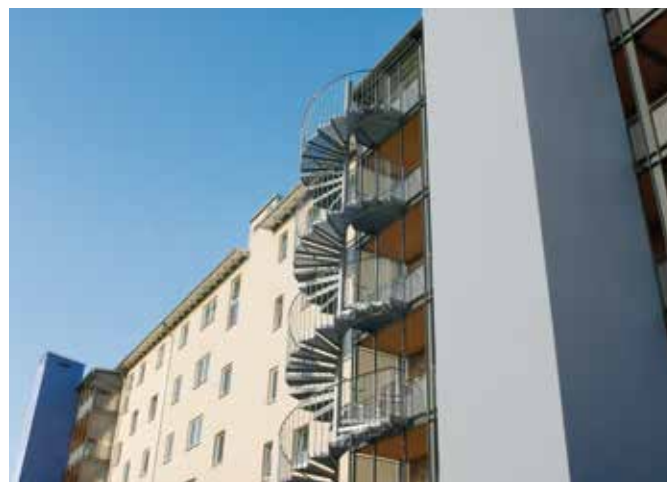
### Technical details

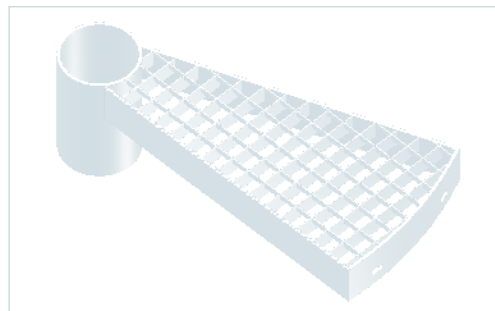
Galvanized according to DIN EN ISO 1461  
Production according to EN1090  
Treads and landings with non-slip nosing  
Load 3,0 kN/sqm und 2,0 kN/sqm single load according to DIN 1055-8, category T1 and for escape staircases 5,0 kN/m<sup>2</sup> category T2

### Advantages

Sleeve technology  
Simple assembly  
Short delivery times  
Different versions of treads can be selected  
Different versions of railings can be selected  
Individual landing forms  
Protection cage possible







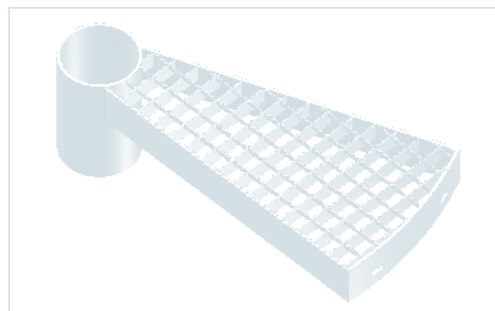
**Stairtread with grating**

Mesh  
33/33 mm



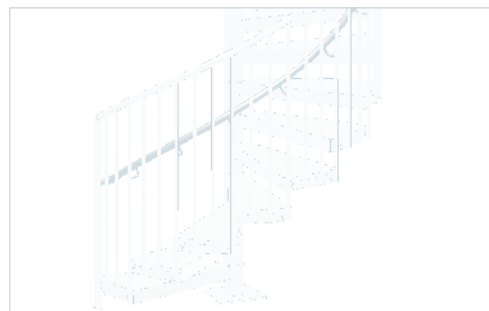
**Railing 1.0**

Handrail and vertical rods made of piping  
Clear distance 120 mm



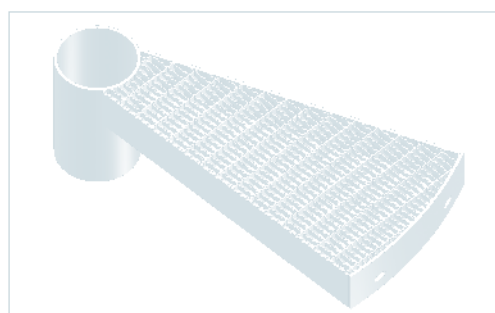
**Stairtread with grating**

Mesh  
33/33 mm,  
anti-slip



**Railing 1.1**

like 1.0, but with additional children's hand-rail of piping



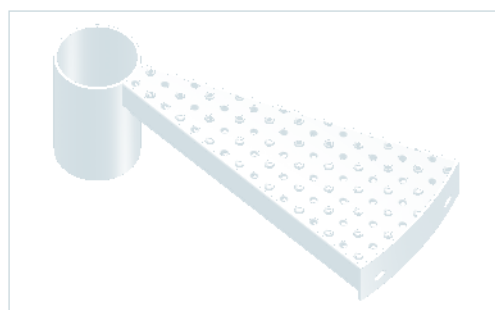
**Stairtread with grating**

Mesh  
33/11 mm,  
anti-slip



**Railing 1.2**

like 1.0, but with additional screwed on stainless steel handrail



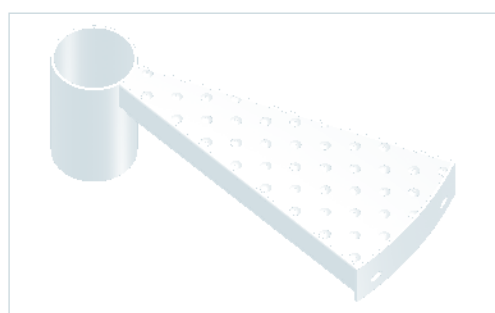
**Stairtread with perforated metal plank**

Type BN-O  
(nub open)



**Railing 2.0**

Handrail, lower balustrade and vertical railing stanchions made of piping  
Railing filling of round bars



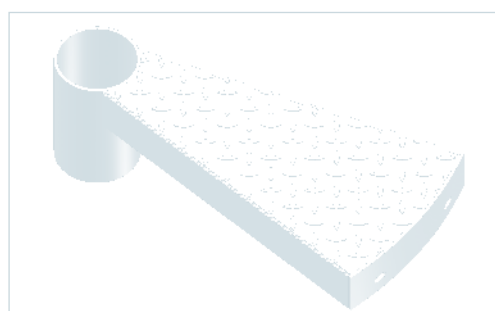
**Stairtread with perforated metal plank**

Type BN-G  
(nub closed)

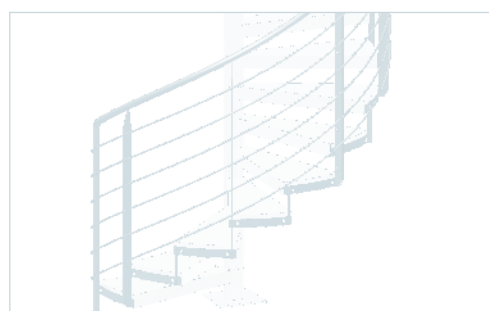


**Railing 3.0**

Handrail, centre balustrade and vertical railing stanchions made of piping



**Stairtread with chequer plate**



**Railing 4.0**

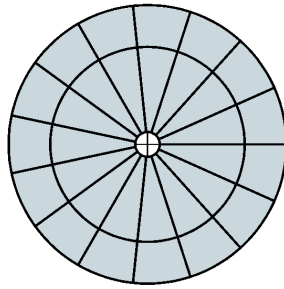
Handrail of piping, railing stanchions made of flat material revolving balustrade of round bars

When planning a spiral staircase the diameter of the staircase, the rise as well as the quantity of stairtreads and spirals have to be considered.

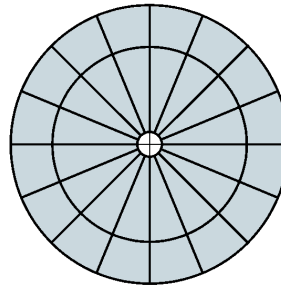
Our drawing shows common pitches for the respective diameter. To determine the location of entry (Stairtread 1) respectively the location of exit (landing), these drawings are very helpful. The step dimension in accordance to DIN 18065 is calculated as follows:

$$2 \times \text{Rise} + \text{Width of tread} = 590 \text{ mm} - 650 \text{ mm}.$$

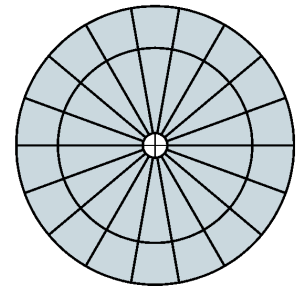
**15 Stairtreads/Spiral**  
Ø 1500 – 1800 mm, Width of treads approx. 220 – 265 mm



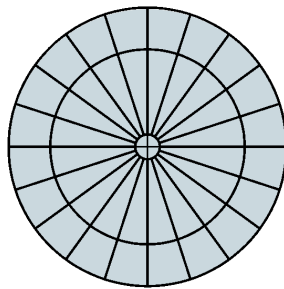
**16 Stairtreads/Spiral**  
Ø 1700 – 2000 mm, Widths of tread approx. 235 – 275 mm



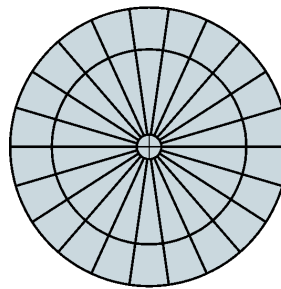
**18 Stairtreads/Spiral**  
Ø 1900 – 2200 mm, Widths of tread approx. 235 – 275 mm



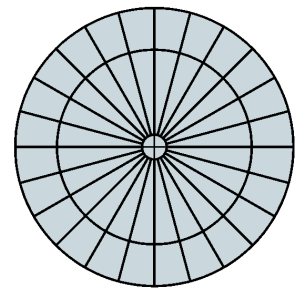
**20 Stairtreads/Spiral**  
Ø 2100 – 2400 mm, Widths of tread approx. 230 – 265 mm



**22 Stairtreads/Spiral**  
Ø 2300 – 2700 mm, Widths of tread approx. 230 – 270 mm

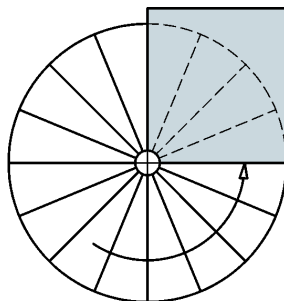


**24 Stairtreads/Spiral**  
Ø 2600 – 3000 mm, Widths of tread approx. 235 – 275 mm

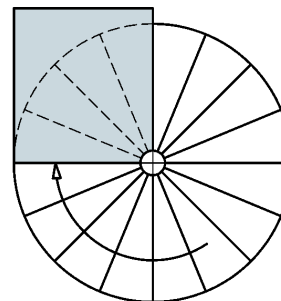


**Landings – Design examples**

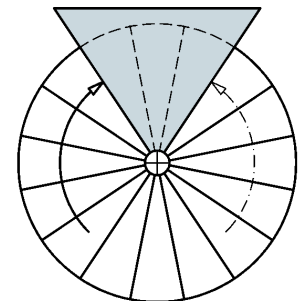
Staircase turned left



Staircase turned right



Staircase turned left or right



## Important details for planning your spiral staircase

Diameter of the staircase (D) mm

Total height OKFF until OKFF (H) mm

Concrete base level to finished level (B) mm

Rise (S) mm

Quantity of Stairtreads (pce)

Landing at exit, Dimension & Quantity  
(add a sketch)

Resting landing, Dimension & Quantity

☐ Type LG Standard

☐ Type LG Spezial

Grating type

Railing design

Load of the staircase

Adress/company stamp:

## Lichtgitter – About us

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 industrial floor coverings with subsidiaries all over the world.

## 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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Galvanizing

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