

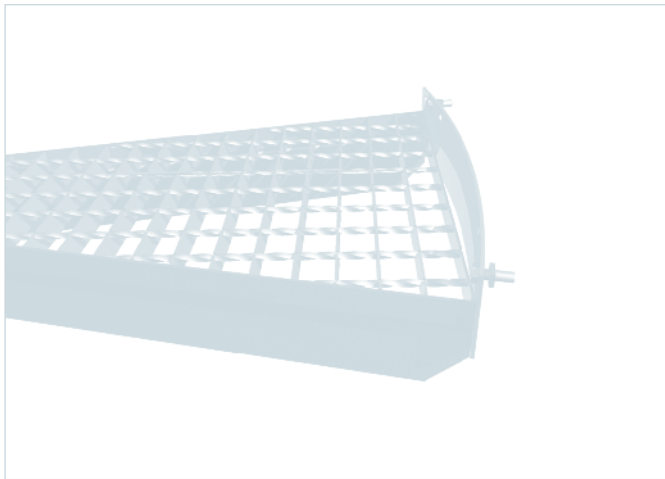


# We take you safely to the top

## 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

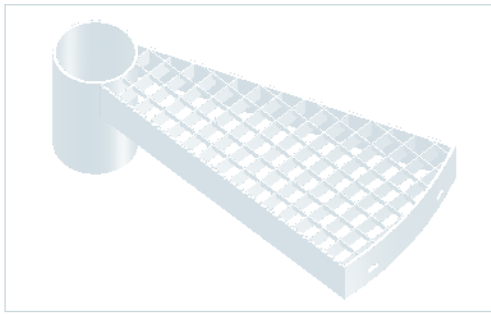
Various designs of stairtreads

Individual landing forms









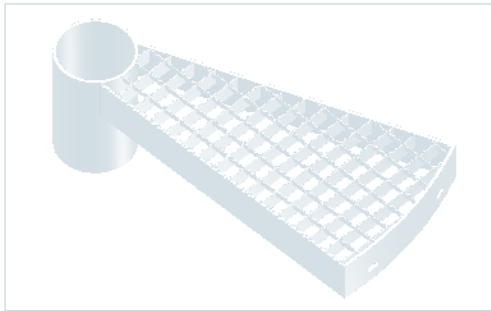
Stairtread with grating

Mesh 33/33 mm



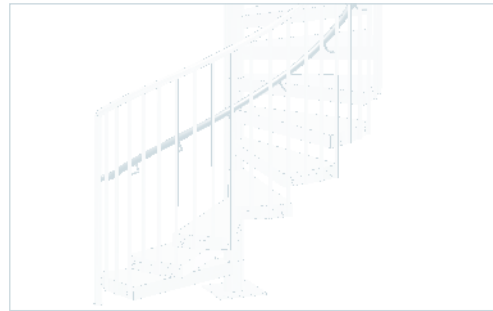
Railing 1.0

Handrail and vertical rods made of piping  
Clear distance 120 mm



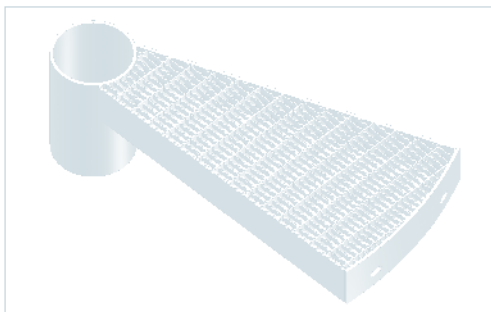
Stairtread with grating

Mesh 33/33 mm, anti-slip



Railing 1.1

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



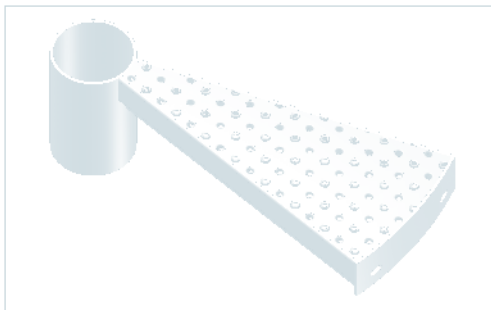
Stairtread with grating

Mesh 33/11 mm, anti-slip



Railing 1.2

like 1.0, but with additional screwed on stainless steel handrail



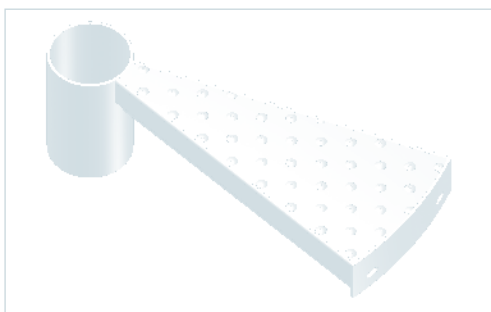
Stairtread with perforated metal plank

Type BN-O (nub open)



Railing 2.0

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



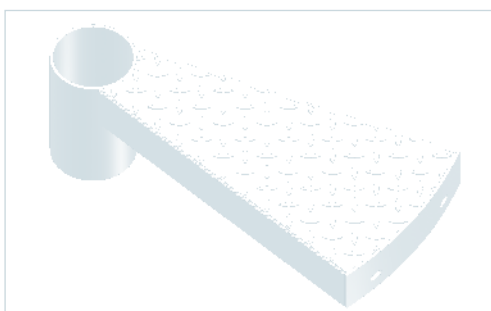
Stairtread with perforated metal plank

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

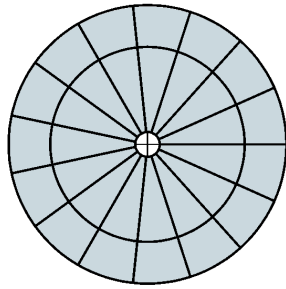
Handrail of piping, railing stanchions made of flat material revolving balustrade of round bars

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.

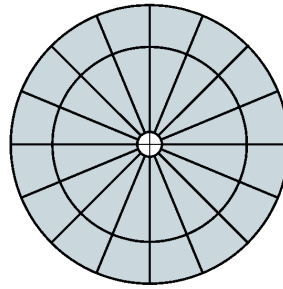
Our drawing shows common pitches for the respective diameter. To determine the location of entry (Stairtread 1) respectively the location of exit (landing), these drawings are very helpful. The step dimension in accordance to DIN 18065 is calculated as follows:

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

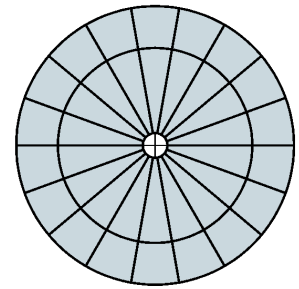
**15 Stairtreads/Spiral**  
 Ø 1500 – 1800 mm, Width of treads approx. 220 – 265 mm



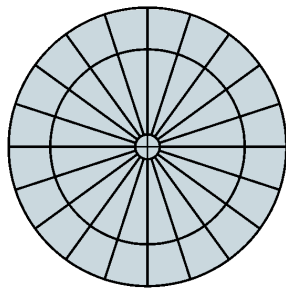
**16 Stairtreads/Spiral**  
 Ø 1700 – 2000 mm, Widths of tread approx. 235 – 275 mm



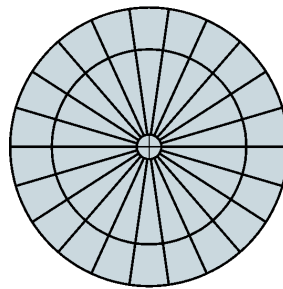
**18 Stairtreads/Spiral**  
 Ø 1900 – 2200 mm, Widths of tread approx. 235 – 275 mm



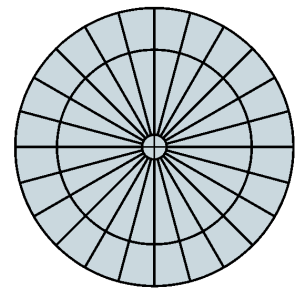
**20 Stairtreads/Spiral**  
 Ø 2100 – 2400 mm, Widths of tread approx. 230 – 265 mm



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

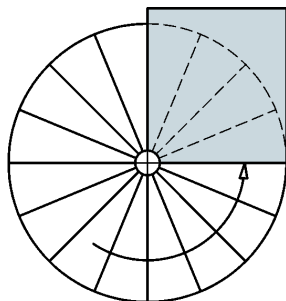


**24 Stairtreads/Spiral**  
 Ø 2600 – 3000 mm, Widths of tread approx. 235 – 275 mm

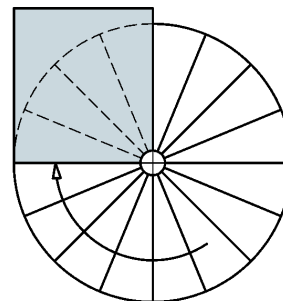


**Landings – Design examples**

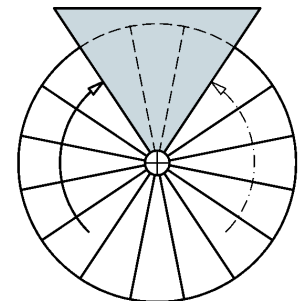
Staircase turned left



Staircase turned right



Staircase turned left or right



**Important details for planning your spiral staircase**

Type LG Standard

Type LG Spezial

Diameter of the staircase (D) mm

Grating type

Total height OKFF until OKFF (H) mm

Railing design

Concrete base level to finished level (B) mm

Load of the staircase

Rise (S) mm

Adress/company stamp:

Quantity of Stairtreads (pce)

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

Resting landing, Dimension & Quantity

## 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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