We take you safely to the top
Lichtgitter Spiral Staircases

lichtgitter

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/m² 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

Stairtreads design Type LG Special

Stairtread with grating

Mesh
33/33 mm

Stairtread with grating

Mesh
33/33 mm,
anti-slip

Stiartread with grating

Mesh
33/11 mm,
anti-slip

Stiartread with perforated metal plank

Type BN-O
(nub open)

Stairtread with perforated-metal plank

Type BN-G
(nub closed)

Stairtread with chequer plate

Railing design Type LG Special

Railing 1.0

Handrail and vertical rods made of piping
Clear distance 120 mm

Railing 1.1

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

Railing 1.2

like 1.0, but with additional screwed on stainless steel handrail

Railing 2.0

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

Railing 3.0

Handrail, centre balustrade and vertical railing stanchions made of piping

Railing 4.0

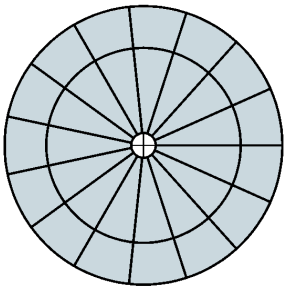
Handrail of piping, railing stanchions made of flat material
revolving balustrade of round bars

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

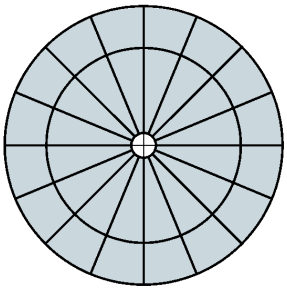
Our drawing shows common pitches for the respective diameter. To determine the location of entry (Stairtread 1) respectively the location of exit (landing), these drawings are very helpful. The step dimension in accordance to DIN 18065 is calculated as follows:

2 x Rise + Width of tread = 590 mm – 650 mm.

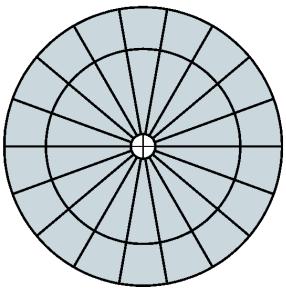
15 Stairtreads/Spiral
Ø 1500 – 1800 mm, Width of treads approx. 220 – 265 mm



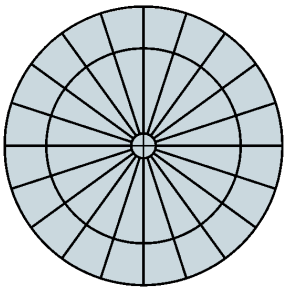
16 Stairtreads/Spiral
Ø 1700 – 2000 mm, Widths of tread approx. 235 – 275 mm



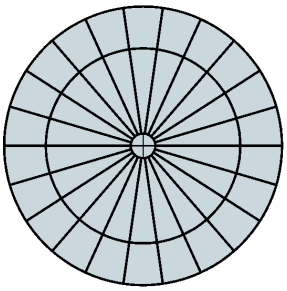
18 Stairtreads/Spiral
Ø 1900 – 2200 mm, Widths of tread approx. 235 – 275 mm



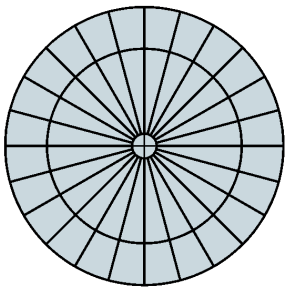
20 Stairtreads/Spiral
Ø 2100 – 2400 mm, Widths of tread approx. 230 – 265 mm



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

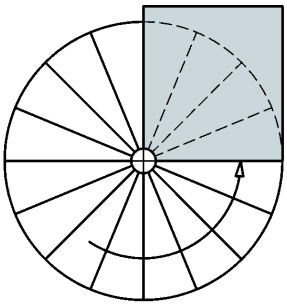


24 Stairtreads/Spiral
Ø 2600 – 3000 mm, Widths of tread approx. 235 – 275 mm

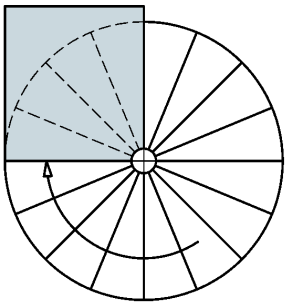


Landings – Design examples

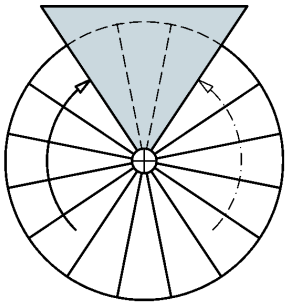
Staircase turned left



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

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

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

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

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