We take you safely to the top
Lichtgitter Spiral Staircases
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

- Stairtread 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 handrail 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 diameter of the staircase, the rise as well as the quantity of stair treads and spirals have to be considered. Our drawing shows common pitches for the respective diameter. To determine the location of entry (Stair tread 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}.

**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 Stair treads (pce)
- Landing at exit, Dimension & Quantity (add a sketch)
- Resting landing, Dimension & Quantity

**Landings – Design examples**

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

- **16 Stair treads/Spiral**
  Ø 1700 – 2000 mm, Width of tread approx. 235 – 275 mm

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

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

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

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

**Lichtgitter – 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.

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

Lichtgitter Treppen GmbH & Co. KG
Schönower Straße 6
D-16306 Casekow-Blumberg

T +49. 33331. 797-0
F +49. 33331. 797-55
E blumberg@lichtgitter.com

Contact Sales Department
T +49. 2563. 911-127
F +49. 2563. 911-81127

www.lichtgitter.com

Lichtgitter Gesellschaft mbH
Siemensstraße
D-48703 Stadtlohn

T +49. 2563. 911-0
F +49. 2563. 911-163
E info@lichtgitter.com

Lichtgitter Blechprofirolste GmbH & Co. KG
Bahnhofstraße 76
D-72172 Sulz Neckar

T +49. 7454. 9582-0
F +49. 7454. 9582-49
E sulz@lichtgitter.com

Lichtgitter GFK GmbH & Co. KG
Siemensstraße
D-48703 Stadtlohn

T +49. 2563. 911-0
F +49. 2563. 911-222
E info@lichtgitter.com