

Spiral staircases

for industrial settings and escape routes



WELAND

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Spiral staircases are often a very practical solution for stairs

Short delivery time

Weland spiral staircases for escape routes and industrial settings can be delivered even quicker when standard components are used.

Space savings

A spiral staircase with a radius of 900 mm and a landing sized 950 x 950 mm, requires a diameter space of 1,900 mm.

Architecturally pleasing

Spiral staircases usually blend in well with their surroundings, as part of the façade.

Secure

If a person should lose their balance on a staircase they would most likely fall against the banister, break the fall, and providing chance to grab hold of the railing or the newel post.

Flexible

Spiral staircases require the same small base regardless of the height. They can be manufactured turning left or right and have different number of treads each turn. This makes for a staircase that always works.

Light design

Spiral staircases do not require extra load carrying construction, unless the landings are very oversized.

Can be constructed to great heights

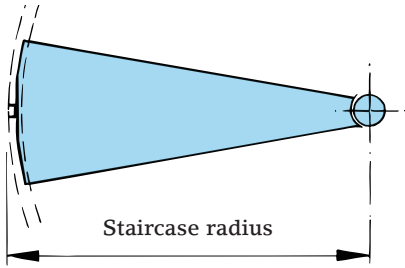
Spiral staircases can be built very tall without any extra support, provided bracing can be arranged, e.g. against a wall. If no adjacent walls are available, bracing can be arranged by placing vertical support legs on the outside of the staircase.

Standard approved

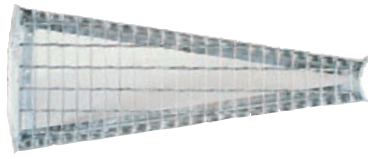
Weland Spiral staircase No. 3 is standard approved, as well as approved in accordance with Fire Resistance Classification R 30. In accordance with current guidelines in the Building Rules (BBR) and Construction Rules (BKR) set by the Swedish Housing Department



Weland Standard



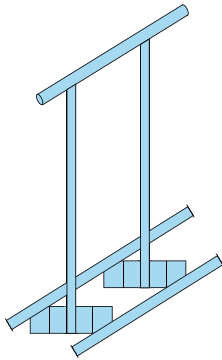
Staircase radius: 600 - 1500 mm



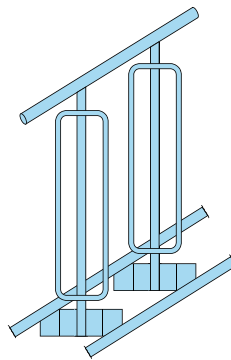
Treads and landing:
Grating c/c 33 x 50 mm



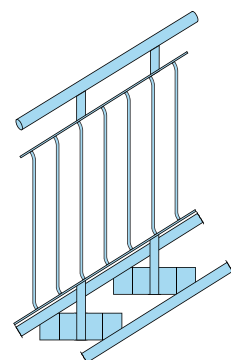
Treads and landing:
Durbar plate



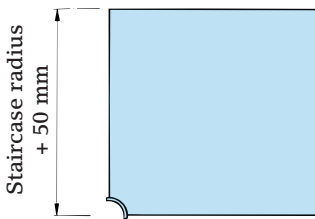
Railing: Standard railing
with 1 baluster per tread.
Banister in stainless steel.



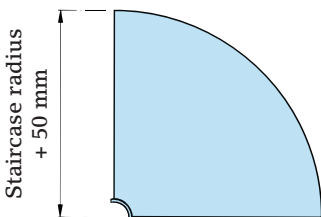
Railing: Childproof railing
with hoops.
Banister in stainless steel.



Railing: Childproof railing
with balusters c/c 100 mm.
Banister in stainless steel.



Landing: Square



Landing: 90° radius

Excerpt from the Swedish Housing Department's Building Rules on stairs, in accordance with BFS 1993:57 with amendments up to and including 2002:19. 9

BBR
A. Width for escape routes min. 900 mm, 5:341
 or for more than 150 people min. 1,200 mm.
 For multi-storey buildings, with more than 8:232
 two apartments without elevator, the minimum
 width is 1,200 mm..
 (Stringers, mounting bases, handrails etc. may
 impede not more than 100 mm)

Fire Resistance Classification

For buildings classified as Br1, Br2 and Br 3 5:821
 staircase flights and landings have to be
 dimensioned in accordance with Fire Resistance
 Classification R 30.





Standard railing

Standard railing with one baluster per tread is mainly used in industrial settings. It can also be used for escape staircases (where children are not present). The staircases can also be equipped with a protective cage at the bottom, to prevent unauthorized access.





Childproof hoop railing

Hoop railing is a childproof banister, that is, the opening between the posts is maximum 100 mm. It is used mainly on escape staircases, but also in industrial areas where the staircase height is more than 2 storeys.





Childproof railing

Round-bar railing is, just as the hoop railing, a childproof alternative with a maximum opening of 100 mm between the posts.





Intermediate railing

The railing can also be equipped with 1, 2, 3 or 4 intermediate rails of flat bars 50 x 3 mm. These banisters are not considered childproof.





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