

The Omega Platform Lift

This information manual aims at providing a quick overview over the diverse application possibilities that the Omega platform lift provides. In over 4000 installations worldwide, the Omega has proven to be the most versatile and one of the most robust platform stairlifts on the market.



The following main features make the Omega an outstanding product on the market:

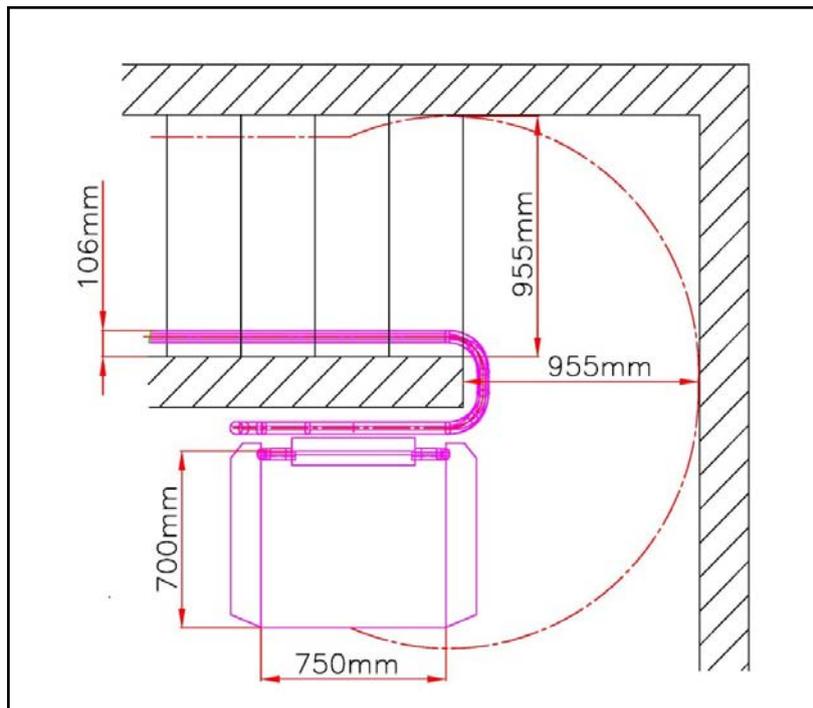
1. **Space saving design** of the platform and the rail system makes the platform fit into the narrowest staircases Page 1
2. **Inside and outside curves** are possible with very tight turning radii, allowing the most complex rail designs Page 5
3. **Extremely robust construction** of the platform mechanics, making it the most robust lift on the market for outdoor installations Page 8
4. Due to the rope traction system, **very long installations** are feasible and would not be possible with a battery driven platform Page 9
5. The lift finish can be executed in **stainless steel or in any RAL colour**, adapting aesthetically to any environment Page 10

1 Space saving design

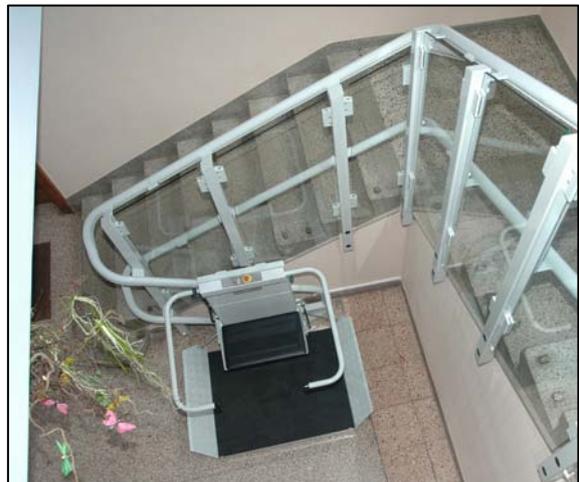
In many cases the installation of a platform lift is restricted by the width of the staircase as well as by the space available for parking. The Omega can be fitted into staircases where other platform lift products cannot be installed due to space restrictions. A couple of examples are provided hereafter.

1.1 Staircase width

A platform size of 700x750 mm can be installed with a staircase width of just 955mm, if the rail is wall mounted. Please see the drawing below.



The Omega platform can be designed in any platform size or shape so that always the maximum platform size can be achieved for a given staircase.



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The small dimensions of the carriage together with steep rail designs and tight turning radii, allow an Omega installation in almost any staircase.

Rail gradients up to 60° have been realized.

As can be seen in the example below, the compact carriage and the steep rail design can solve problems with low bulkheads and small lower parking spaces.

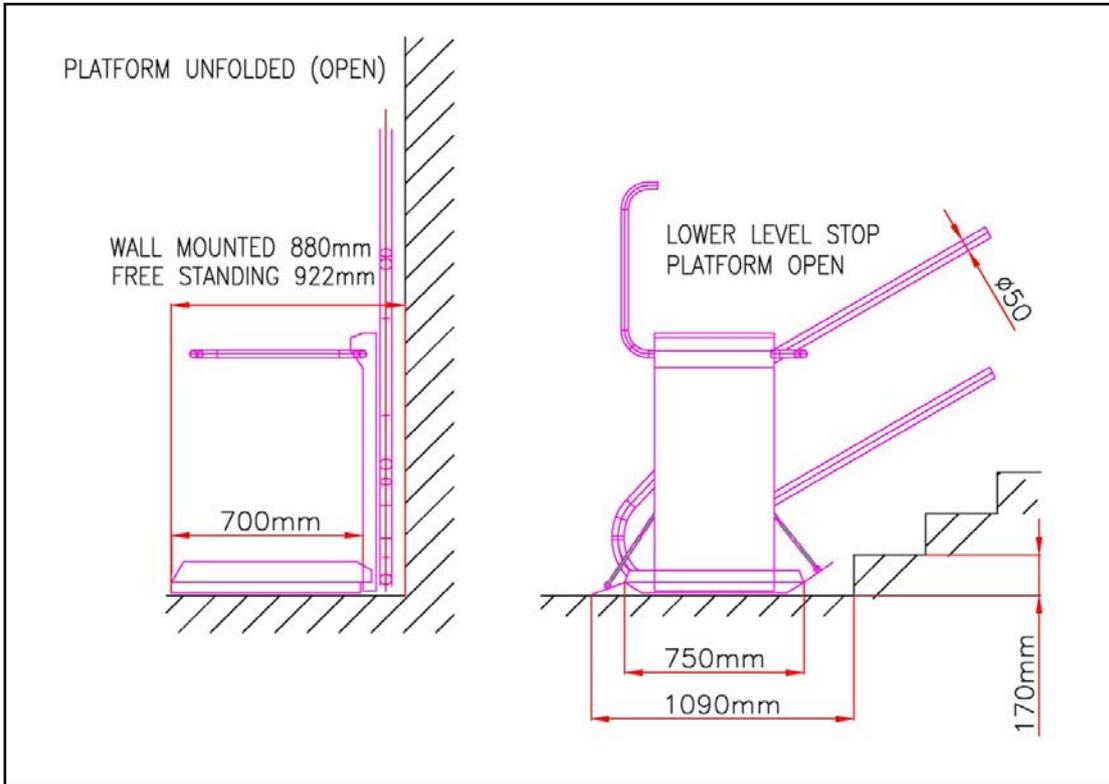


The rails can smoothly adapt to any shape and radius given by the staircase design.



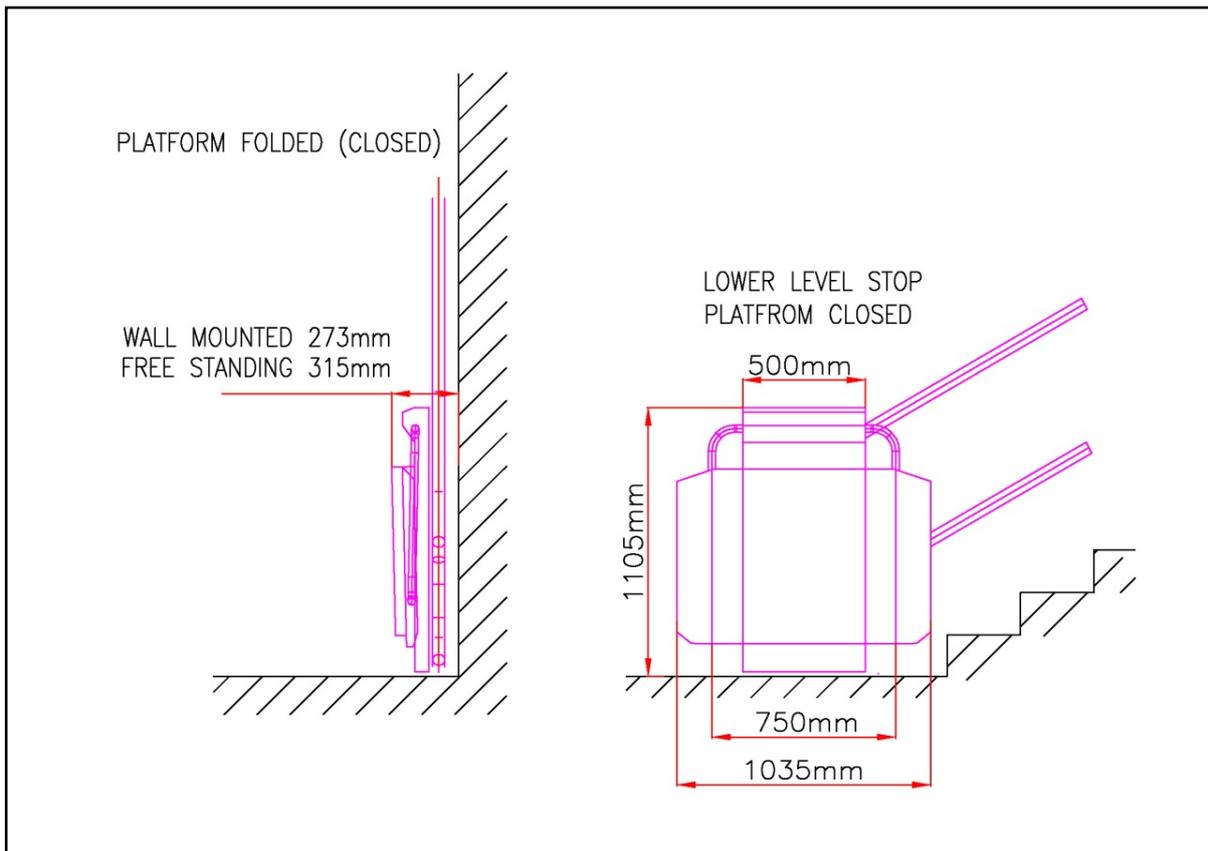
1.2 Lower parking space

The space required for the parking in the lower stop position can be reduced to a minimum. For a platform length of 750 mm the necessary space required in front of the first step is just 1090 mm. From the wall the platform only occupies 880mm in the unfolded position!



1.3 *Folded platform dimensions*

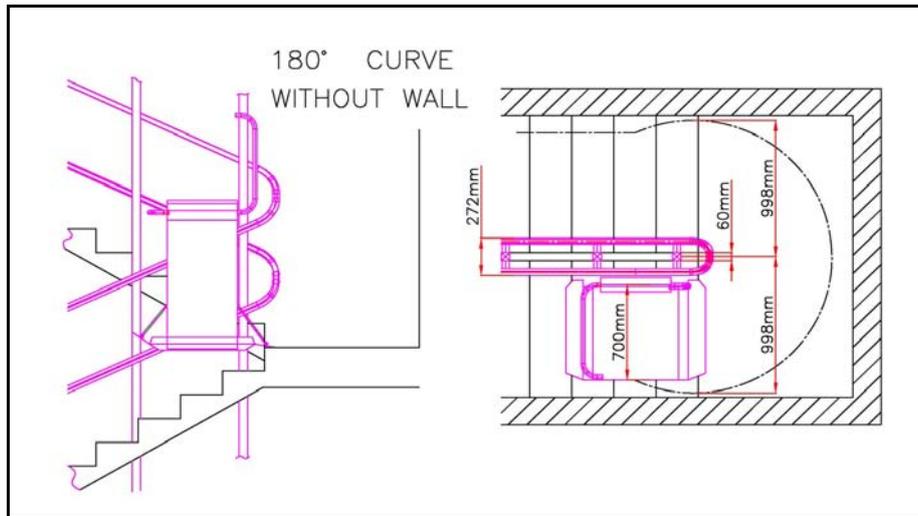
In the folded position the platform occupies only 273 mm of space if fixed directly to the wall, thus increasing the clearance left on the staircase to the maximum. The dimensions of the closed platform show that it was designed to be as compact as possible, so not creating an obstacle when parked away.



2 Inside and outside curves with small radii

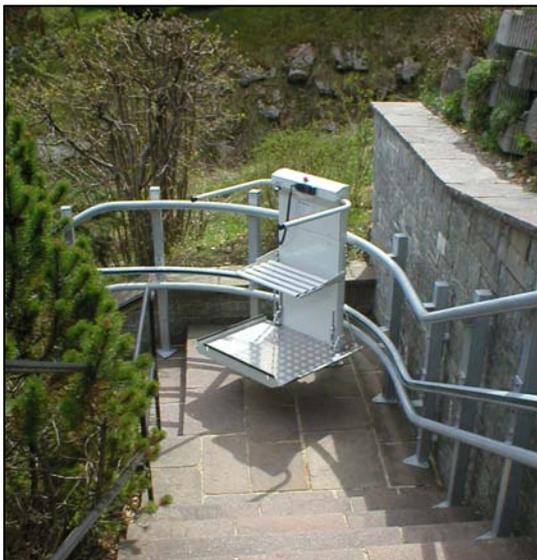
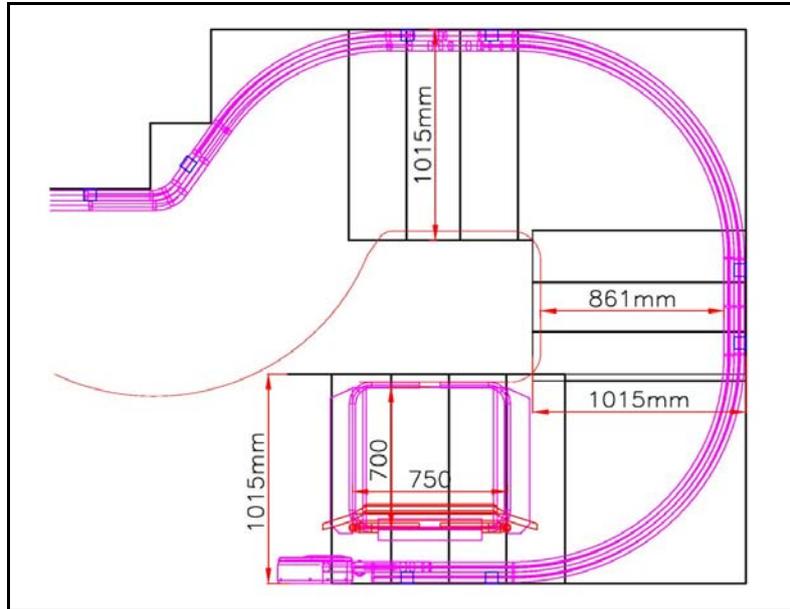
2.1 Inside curve radii

For an inside curve the turning radius of the rail can be as small as 220mm. This allows turning around a single pillar (60x60mm) to which the rail brackets are fixed. The pillar can be located on the step, attached to the string of the staircase or be located in the eye of the staircase as can be seen in the example below.



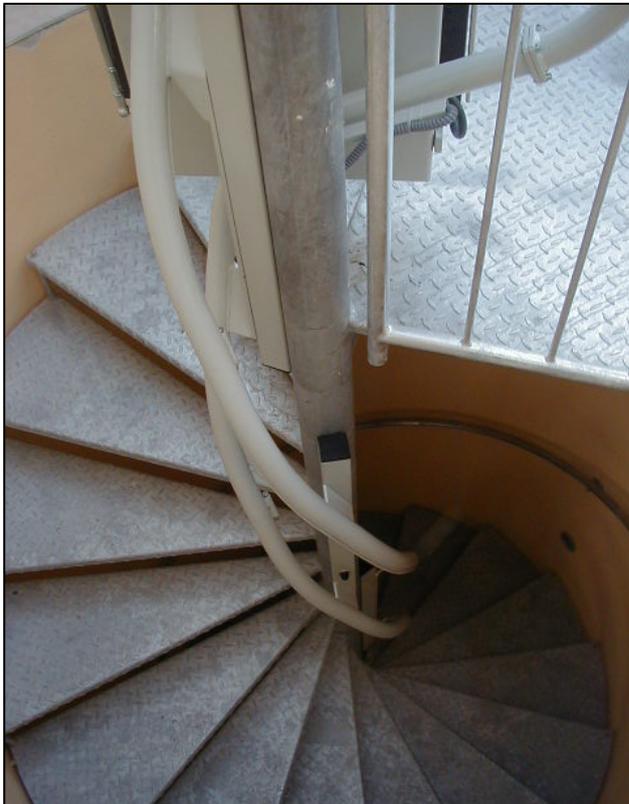
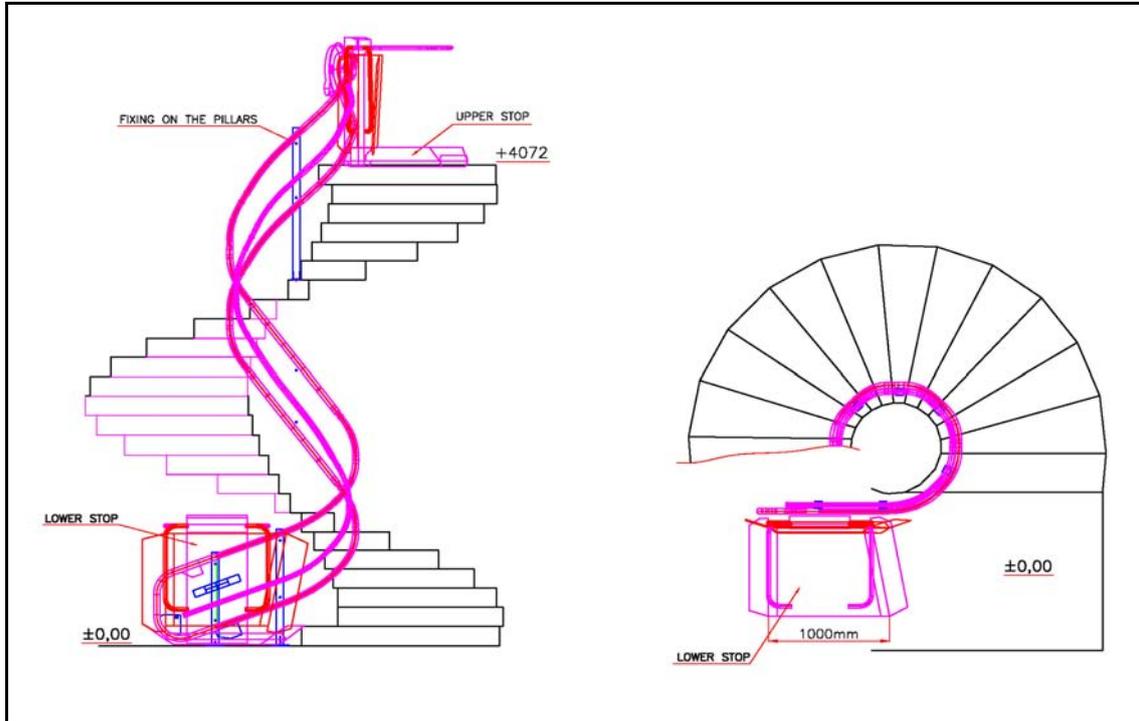
2.2 Outside curve with minimum radius

The Omega rail system allows a platform with size 700x750mm to be installed on an outside (negative) curve rail in staircases with a staircase width of only 1015 mm.



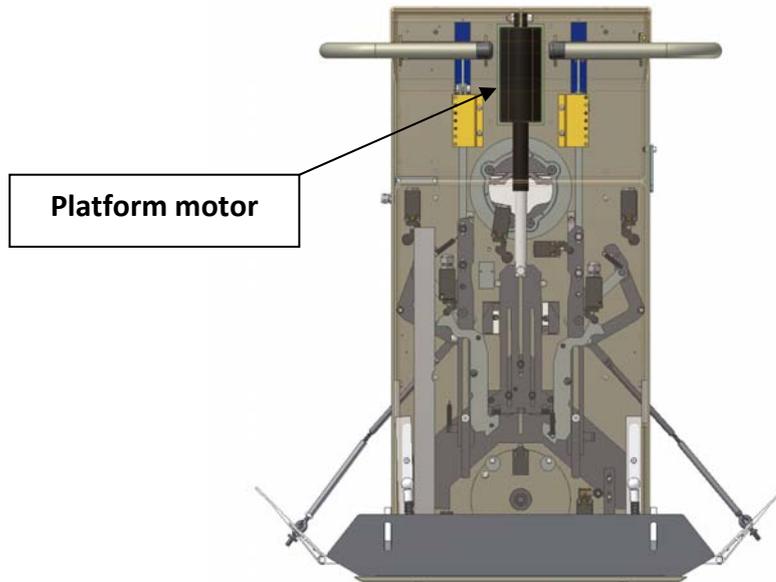
2.3 Special radii and spiral staircases

Our high tech rail bending machines allow precise rail design. The rails can be fitted to almost any spiral staircases with very small inner radius (the possible radius is depending on the inclination of staircase). Below please find some illustrations.

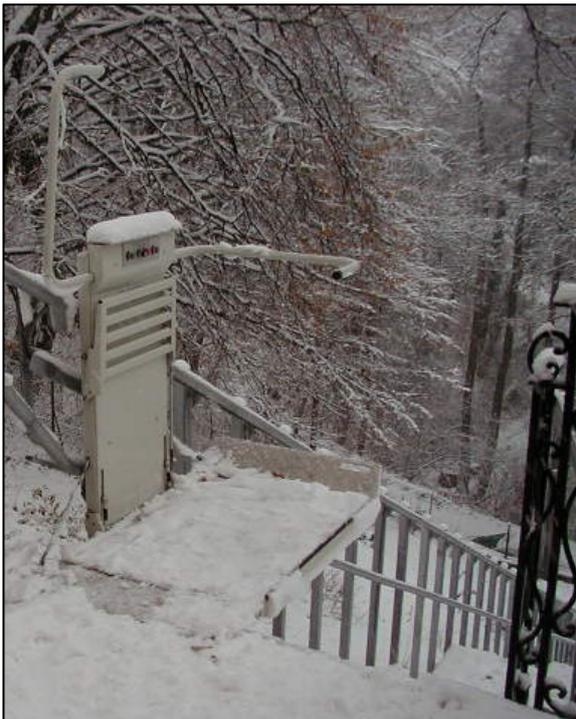


3 Robust design of platform mechanics

The carriage is equipped with a single platform motor that is steering all platform functions. In the centre, the vertically positioned motor activates the folding and opening of the platform as well as the movement of the barrier arms and the access ramps. This unique systems allows for a minimum use of electrical components which makes the unit easy to maintain and very robust for outdoor applications, even in the most unfavourable weather conditions.



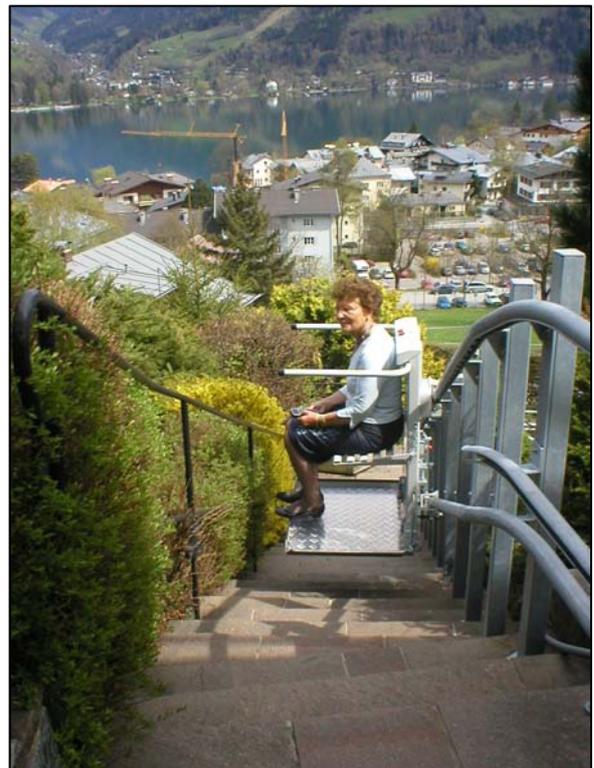
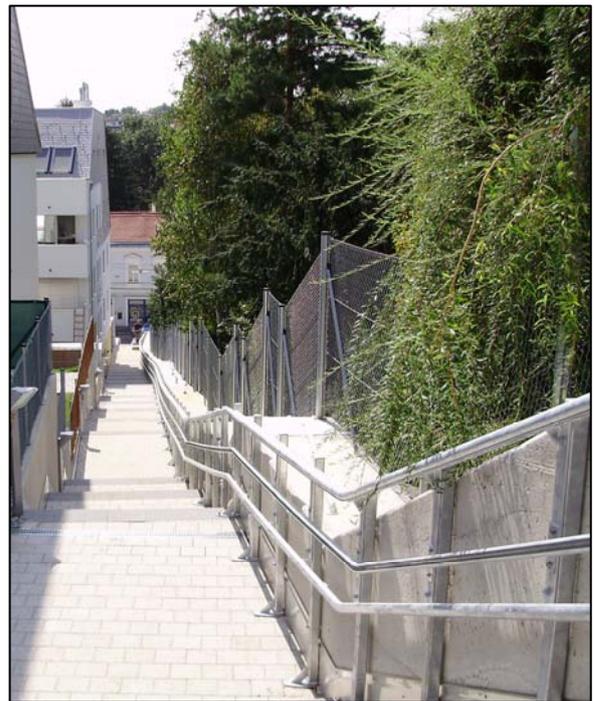
The Omega lift is the most reliable lift for outdoor installations. A great number of outdoor units have been installed in the Austrian and Swiss Alpine region, at altitudes up to 2500m above sea level and winter temperature down to -25°C.



4 Installation with very long rail length

Outdoor Omega installations with rail lengths of up to 85m have been realized. The traction rope driven systems allows for such long lengths, even for frequent usage, as there are no batteries than can deplete.

For indoor installations the Omega system is capable of providing a solution to multi-store buildings with up to 10 x 180° curves.



5 Special lift finish

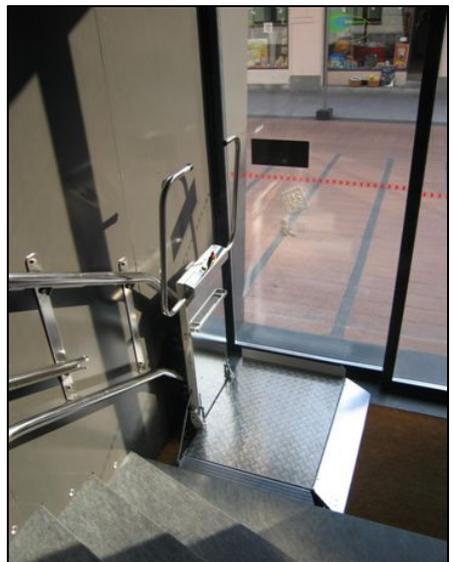
5.1 RAL colours

The standard rail colour of the Omega is RAL 7035 (cream-white). If needed the rail and the platform can be powder coated in any RAL colour. Therefore it is possible to match the lift appearance harmonically with the surroundings. Please see below some examples.



5.2 Stainless steel

Optional the rail and platform can be finished in high quality stainless steel (grade 316) giving the lift a luxury appearance and fitting perfectly into public spaces.



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