



# STAIRWAYS AND PLATFORMS

## FOR THE STEEL AND CONSTRUCTION INDUSTRIES

PROJECT > PRODUCTION > ASSEMBLY





# TLC



Swedish-Polish manufacturer with companies operating in Poland, Sweden, Germany and the UK



More than 15 years of experience in manufacturing stairs and steel platforms as well as construction safety systems



In-house engineering and technological offices as well as a research and development department



Modern and fully automated machinery park



Highly qualified engineering, technical and production staff



Comprehensive Customer service: design, manufacturing, sales, rental, transportation, assembly and repair services delivered all across Europe



Manufacturer, TLC Sp. z o.o., holds TÜV SÜD Polska certificate no. 2527 according to EN 1090-1 and PN-EN ISO 3834-2 certificate issued by TÜV SÜD Polska.

TLC's Production Plant has been certified with the Integrated Management System of Quality, Environment and OHS (ISO 9001/ ISO 14001/ ISO 45001) issued by TÜV SÜD Management Service GmbH.

The performance of construction products confirmed by CE mark.



The information in this advertising material is for reference only. The product specification should be subject to verification with technical data provided by the manufacturer.

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## GENERAL INFORMATION

### CORROSION PROTECTION



Hot-dip galvanizing according to EN ISO 1461 (DIN 50976)



Powder coating with RAL colours



Duplex coat



Spray painting according to EN ISO 12944-5



Painting with fire protection paints

### CONSTRUCTION MATERIALS



Steel S235/S355



Stainless steel 304/316

#### INDUSTRIAL STAIRWAYS

**Straight stairways** - universal proposal well suited as an external or internal access to all types of buildings. A wide range of available solutions allows the stairway selection meet the highest requirements and standards depending on its purpose, ensuring functionality and safety in use. Simple construction makes the stairs easy to assemble.

**Spiral (helical) stairways** - lightweight, innovative perfectly fit both new and renovated buildings. The advantage of the construction is reduction of the area necessary to install it. Spiral construction of stairs prevents from falling as a result of accidental slip – the natural protection is the railing located directly in front of the user.

#### FIRE ESCAPE STAIRWAYS

**Fire escape stairways** are made with a view to maintain the highest safety standards. The cheapest, quickest and easiest method to ensure safe evacuation in accordance with the requirements and regulations. Possibility to provide access to stairways from the outside while maintaining continuous evacuation from the inside.

#### TECHNICAL LADDERS

Welded or bolted lightweight structures made of constructional steel or stainless steel. They are characterised by easy assembly and high resistance to damage. Technical ladders are available in two versions:

**Custom ladders** - made in accordance with the customer's documentation based on guidelines provided in the form of standards and building conditions.

**System (modular) ladders** - are configured of standard elements available in warehouse. The modular construction allows for specific access height. At the stage of operation ladders can be expanded with additional elements: intermediate platforms, cage gates, etc. Ladders meet requirements of EN 14122-3 standard.

#### STEEL PLATFORMS

##### Steel access platforms

They are used in almost every branch of industry. TLC company produces platforms in accordance with European regulations or appropriate for the country of destination.

##### Tank access platforms

Horizontal platforms mounted on, around or between large-size tanks, structurally connected with them.

##### Machinery access platform

A platform or a set of platforms that may be present in a multi-storey system.

#### STORAGE TANK STAIRS

Steel storage tank/ silo stairs are a reliable construction that allow for safe access to tank's roof. Modern solutions and well-thought out system of fixings guarantee safety of users and easy assembly.

The steel silo stairs are available in a number of variants:

##### Staircases

##### Spiral stairs

##### Winder/ curved stairs

## RAILING TYPES

INDUSTRIAL  
ACC. TO EN-ISO 14122



CHILDREN-SAFE



BALUSTRADE WITH  
HORIZONTAL FILLING



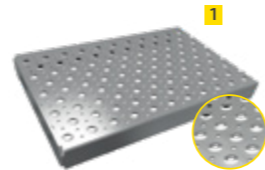
MULTI-FLIGHT

SINGLE-FLIGHT

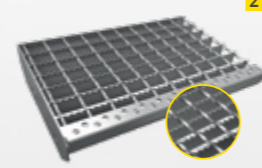
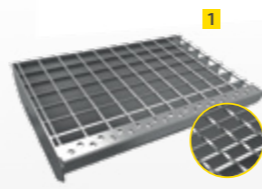


## STEP FILLINGS

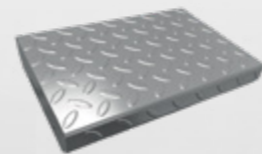
- 1 PLANK GRATING
- 2 SERRATED PLANK GRATING (TYPE USA)
- Hot dip galvanized



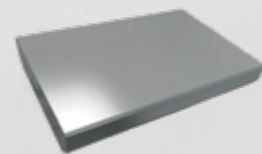
- 1 WELDED GRATING
- 2 SERRATED WELDED GRATING
- Mesh 34 x 38
- Hot dip galvanized



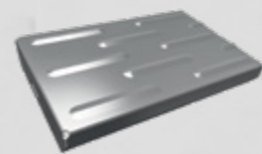
- CHECKER PLATE
- Hot dip galvanized



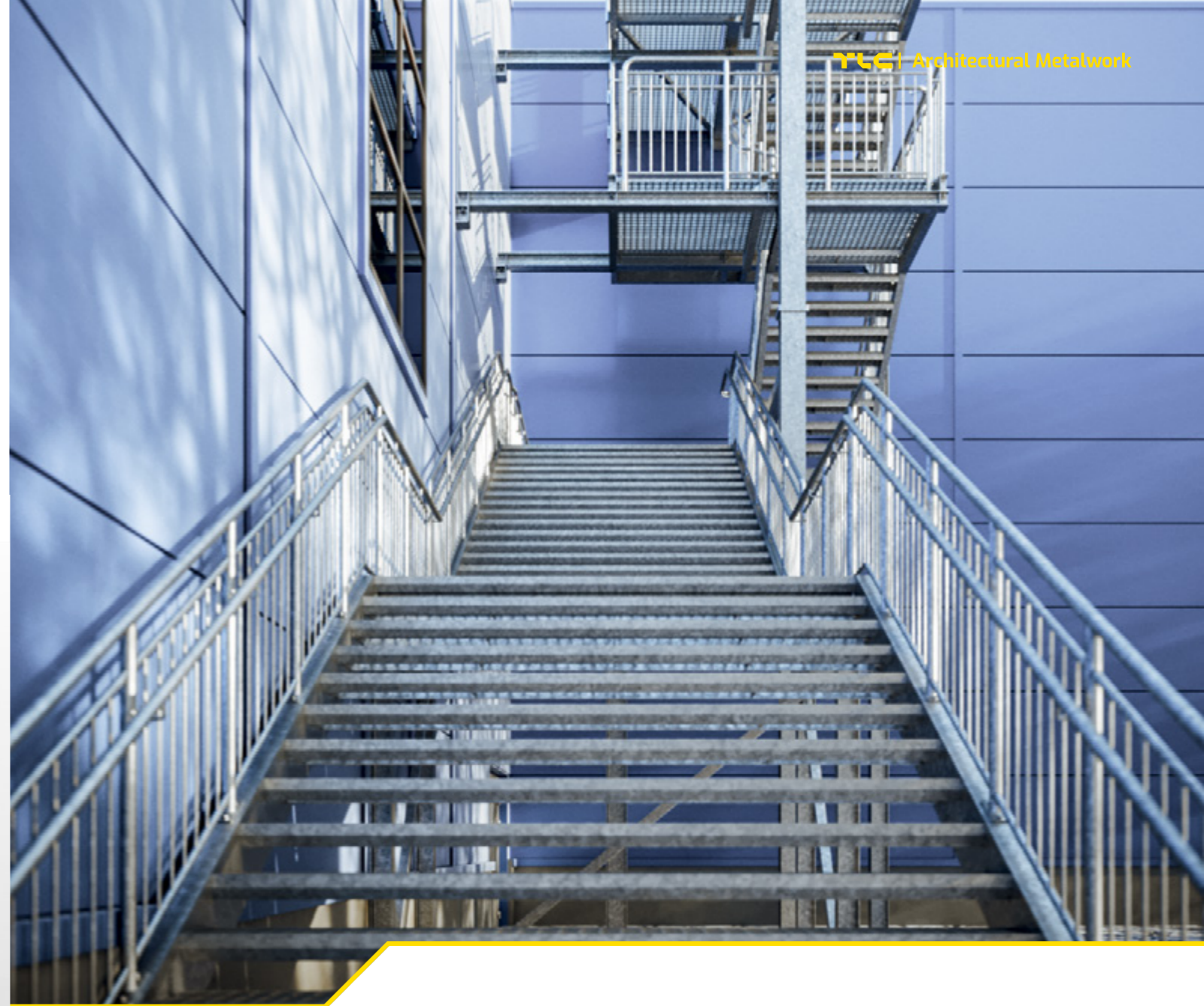
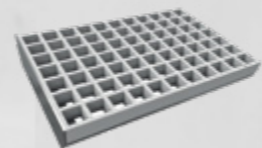
- STEEL PLATE
- Hot dip galvanized
- Powder painted



- TLC-GES TYPE PROFILED PLANK
- Hot dip galvanized



- TWS / GRP GRATING



- Main application is providing access in industrial buildings (warehouses, tanks, storage silos, manufacturing facilities), residential buildings and public utility buildings (shopping centres, sports facilities)
- High quality of materials ensuring durability and resistance to mechanical damage
- Corrosion protection ensuring resistance for required corrosivity class present both outside and inside buildings
- Guaranteed safety of operation due to different types of fillings of steps and railings
- Lightweight construction allows for quick and easy assembly and disassembly

**! IMPORTANT** TLC implements projects using standard materials available on the market. This allows for substantial shortening the term of implementation and cost optimization. On customer's request, projects can be implemented with the use of non-standard materials and solutions.

## RAILING TYPES

INDUSTRIAL



INDUSTRIAL  
ACC. TO EN-ISO 14122



CHILDREN-SAFE



PINNARÄCKE



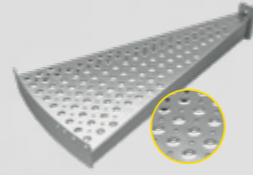
CENTRAL SUPPORTING  
COLUMN ON HANGERS



## STEP FILLINGS

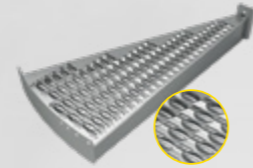
PLANK GRATING

- Hot dip galvanized



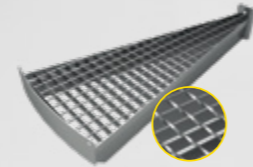
SERRATED PLANK GRATING  
(TYPE USA)

- Hot dip galvanized



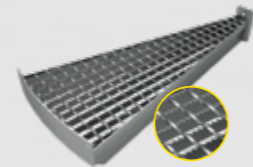
WELDED GRATING

- Mesh 34 x 38
- Hot dip galvanized



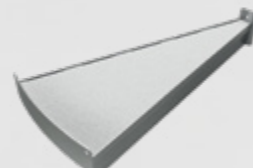
SERRATED WELDED GRATING

- Mesh 34 x 38
- Hot dip galvanized



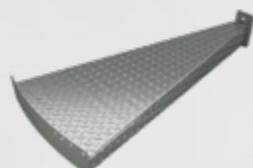
PREPARED FOR FILLING WITH  
CARPET/TILES/KLINKER

- Hot dip galvanized
- Powder painted



CHECKER PLATE

- Hot dip galvanized



- Main application is providing access in industrial buildings (warehouses, tanks, storage silos, manufacturing facilities), residential buildings and public utility buildings (shopping centres, sports facilities)
- High quality of materials ensuring durability and resistance to mechanical damage
- Corrosion protection ensuring resistance for required corrosivity class present both outside and inside buildings
- Guaranteed safety of operation due to different types of fillings of steps and railings
- Lightweight construction allows for quick and easy assembly and disassembly

**! IMPORTANT** TLC implements projects using standard materials available on the market. This allows for substantial shortening the term of implementation and cost optimization. On customer's request, projects can be implemented with the use of non-standard materials and solutions.



- Main used as an escape route in public utility buildings and blocks of flats, as an internal or external stairway
- Reinforced construction resistant to crowd's pressure and high load
- The possibility of coating the construction with intumescent paints resistant to fire
- Maintaining the highest safety standards due to designing in accordance with the current legal regulations in Europe
- The possibility of painting with warning colours

**! IMPORTANT** It is possible to inclose an external stairway with system fencing panels or sandwich panels along with a system wicket securing access to the stairway from the outside while maintaining continuous evacuation from the inside.

## Technical ladders

SYSTEM / MODULAR



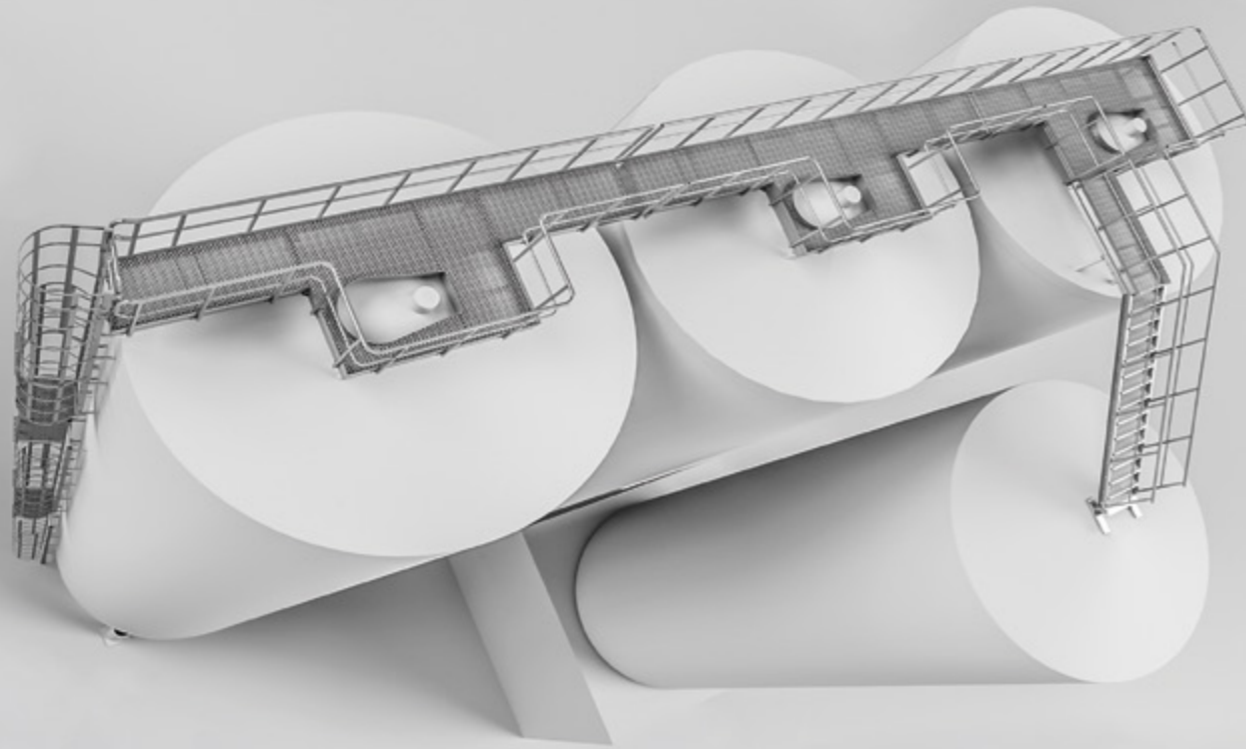
CUSTOM



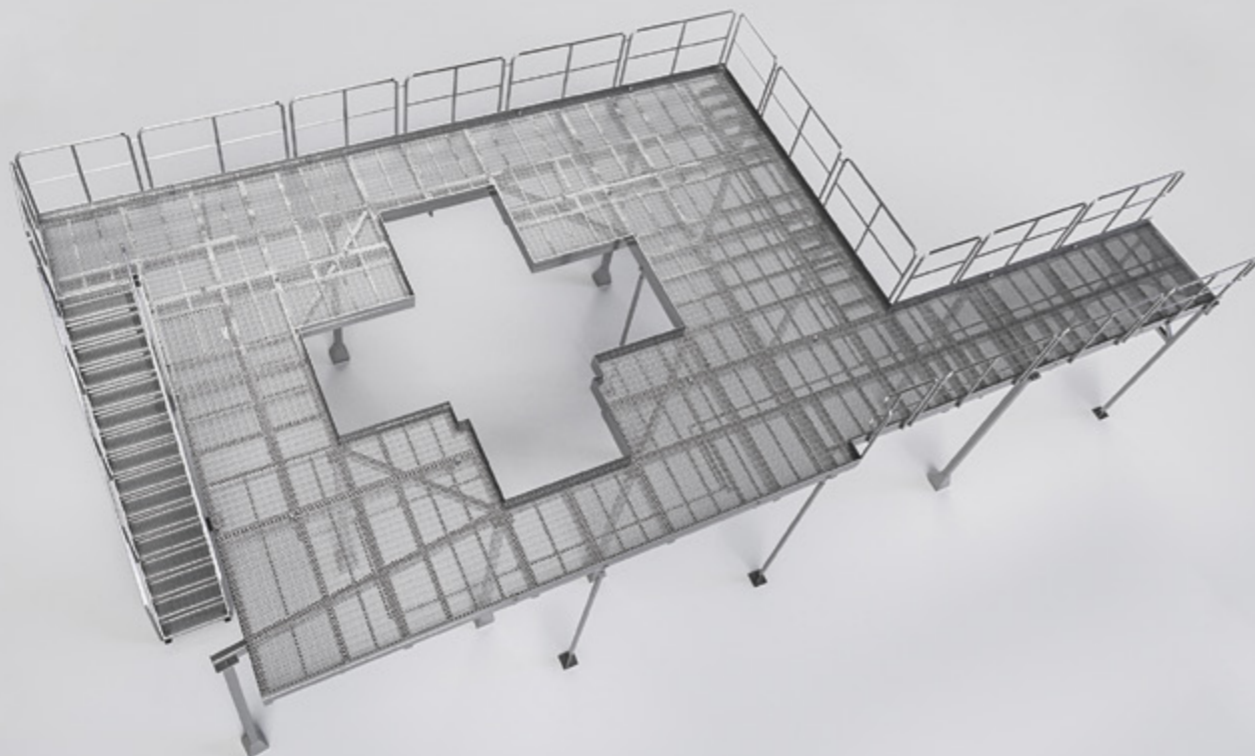
- Main used to provide communication way for inspection of industrial, energy (e.g. cooling towers) and public utility facilities
- Safety of operation due to the possibility to use a protective cage, anti-slip rungs
- Very lightweight construction allows for easy and quick installation
- Ladders designed for installation inside and outside buildings
- Modular construction enabling easy and quick extension
- The possibility of painting in the reflective and warning colours
- Ladders have screwed, not welded protective cage to facilitate transport

**! IMPORTANT** TLC recommends the use of system solutions. System technical ladders mean a safe and fast delivery without the construction process. The proposed standard solutions enable different configurations of ladders.

## Tank access platforms



## Machinery access platform



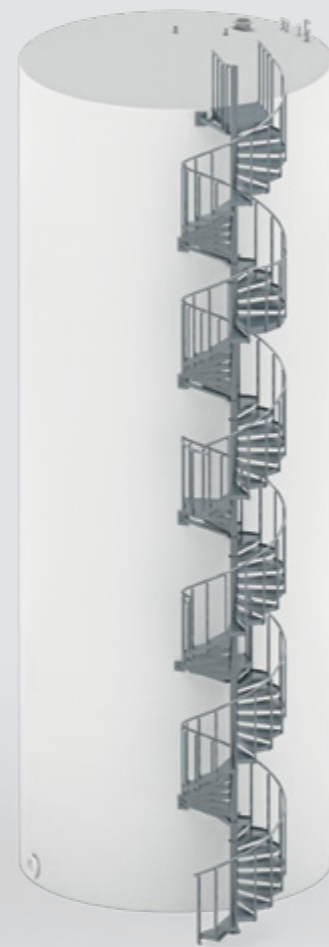
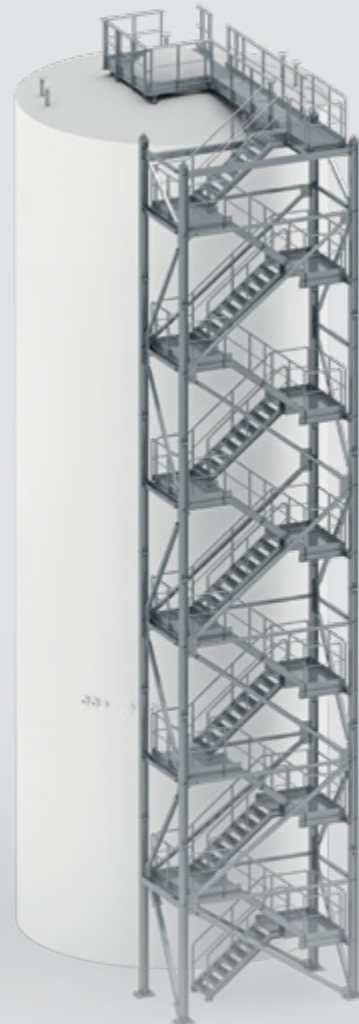
- The main function of tank access platforms is a communication path to service the tanks.
- The basic task of machinery access platforms is providing a safe access to lower as well as higher parts of the machinery and production lines to help with optimizing the production process.
- Possibility of modular extension of the platform
- Implementation in accordance with the documentation made by the TLC designers or documentation provided by the Client
- Consulting regulations and standards, as well as professional assembly services
- The additional equipment depends on the usage conditions. There are: railings and steel balustrades, steel stairs, technical ladders and others. System ladders are made in accordance with EN 14122-3



## Winding / curved stairs

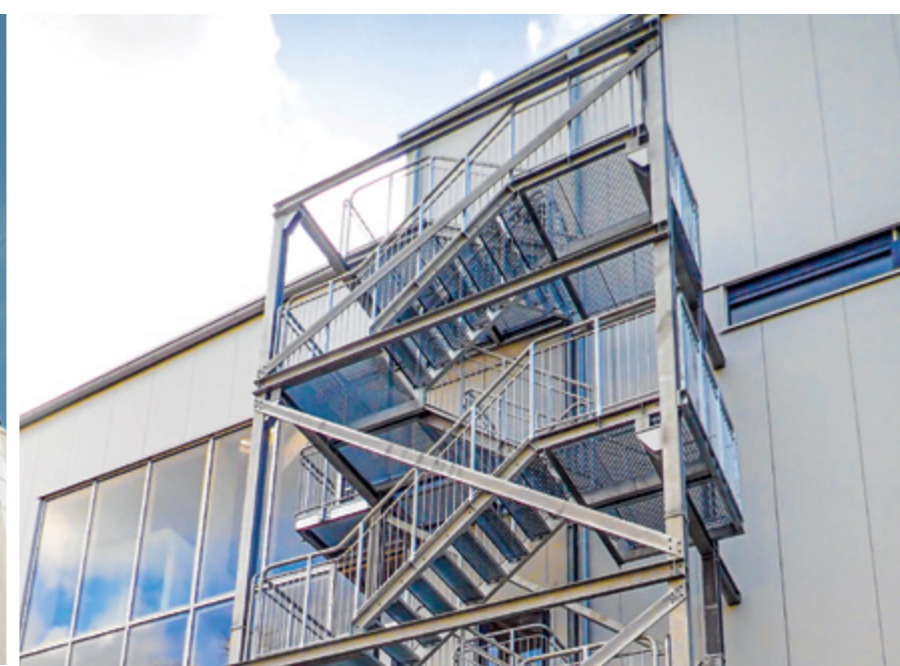
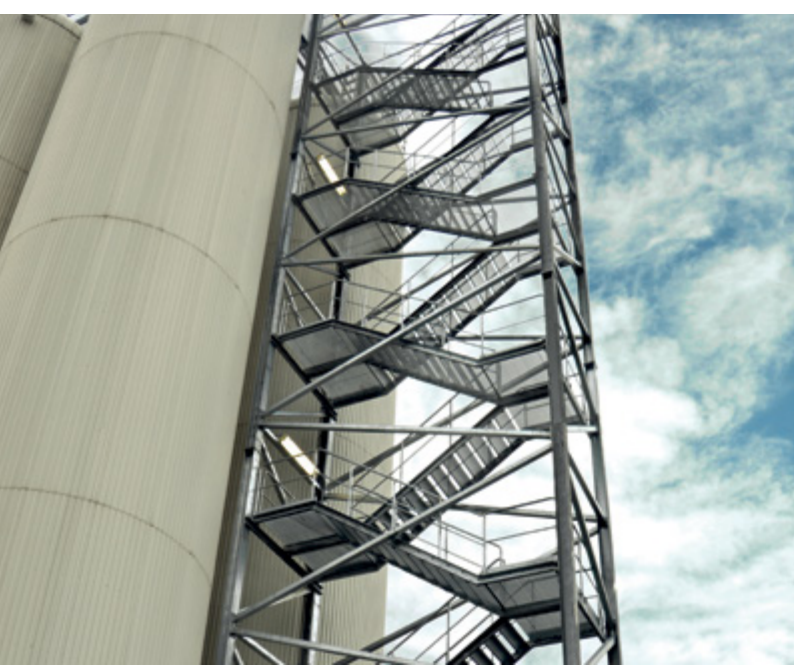
## Staircases

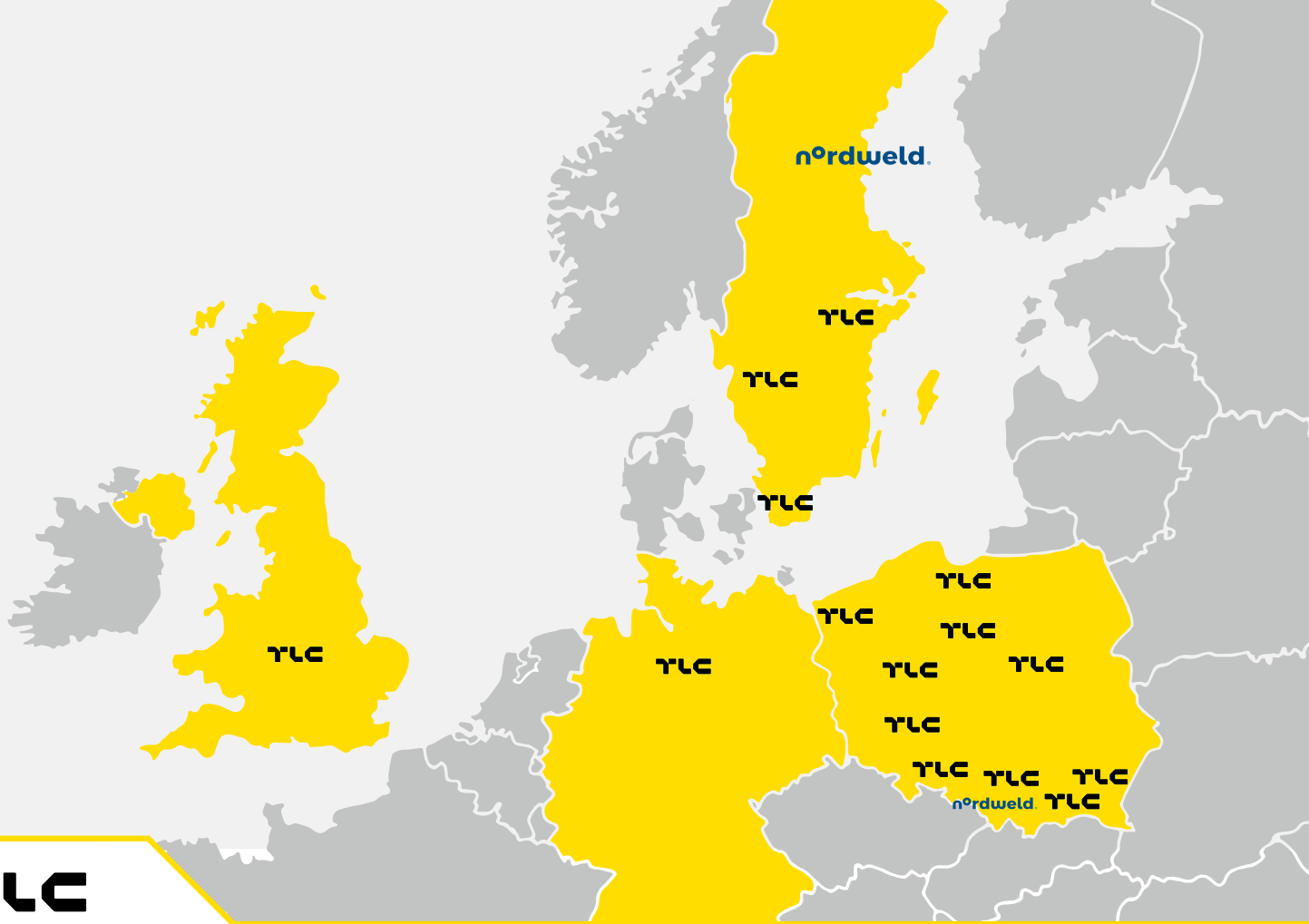
## Spiral stairs



- High safety standards - Equipped with barriers on both sides and anti-slip fillings on steps minimize the possibility of accident.
- High durability against weather conditions - High capacity steel storage tank and silo stairs are hot-dip galvanized according to EN ISO 1461 standard and spray painted with anti-corrosion (according to standard's group EN ISO 12944), fireproof paints or powder coated.
- Conformity with building law - It is our priority to manufacture steel constructions according to the current building law. We also put a lot of focus on stability and safety of our products which results in a constantly growing customer base.
- Multiannual experience - Expanding TLC Group's offer by Nordweld Tank Building System allowed us to expand our knowledge on storage tanks specification in order to offer complex services including tank building with a complete communication system for both one and multiple tanks or silos that are used to store solid or liquid materials.

**! IMPORTANT** Apart from steel external stairs used for silos and storage tanks, we offer complex investment services in terms of project, production and assembly of complete communication systems.





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**TLC** - MANUFACTURER OF STAIRS AND STEEL PLATFORMS FOR BUILDING INDUSTRY  
**TLC RENTAL** - MOBILE PROTECTION SYSTEMS FOR CONSTRUCTION SITES  
**NORDWELD TBS** - INNOVATIVE TANK BUILDING SYSTEM