TLC EU

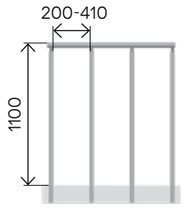
TLC Standards



1. Standard balustrades

INDUSTRIAL

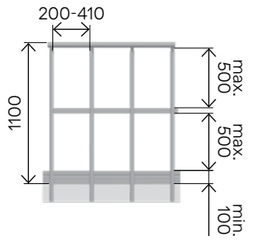
- Rail posts made of square profile 30×30
- Handgrips made of pipe 42,4





INDUSTRIAL ACC. TO EN-ISO 14122

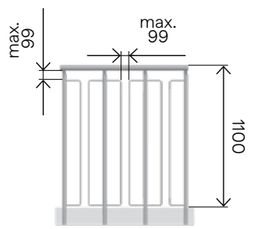
- Rail posts made of square profile 30×30
- Handgrips made of pipe 42,4
- Additonal follower flat 40×3





CHILDREN-SAFE

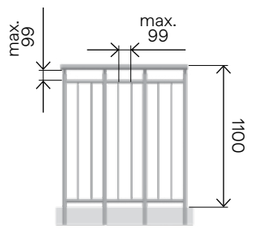
- Rail posts made of square profile 30×30 + vertical round bars ø10mm
- Handgrips made of pipe 42,4





PINNARÄCKE

- Rail posts made of square profile 30×30
- Handgrips made of pipe 42,4
- Filling made of 2 pipes 21,3 and vertical round bars ø10



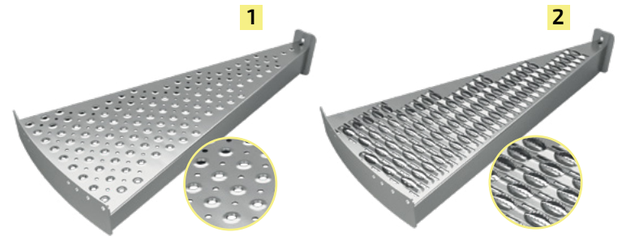


2. Steps types

1 PLANK GRATING

2 SERRATED PLANK GRATING (TYPE USA)

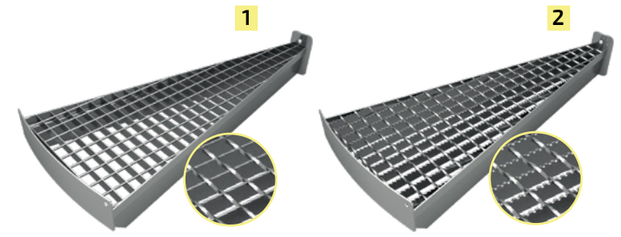
- Hot dip galvanized
- Slip resistance DIN 51130: R12



1 WELDED GRATING

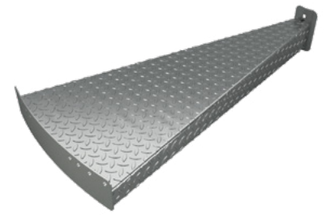
2 SERRATED WELDED GRATING

- Mesh 34 × 38
- Hot dip galvanized
- Slip resistance DIN 51130: R10 (1), R11 (2)



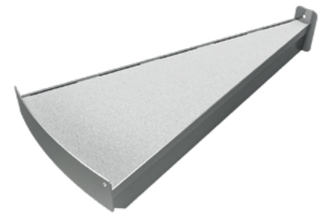
CHECKER PLATE

- Hot dip galvanized
- Slip resistance DIN 51130: R10

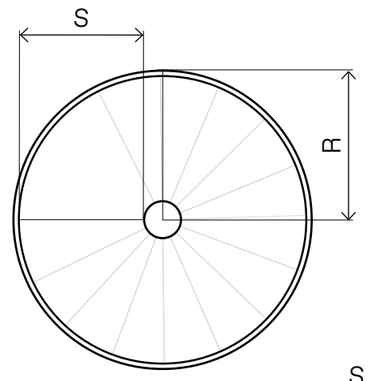


PREPARED FOR FILLING WITH CARPET/TILES/KLINKER

- Hot dip galvanized
- Powder painted
- Slip resistance DIN 51130: R9



R	S	R	S
550	446	1050	946
600	496	1100	996
650	546	1150	1046
700	596	1200	1096
750	646	1250	1146
800	696	1300	1196
850	746	1350	1246
900	796	1400	1296
950	846	1450	1346
1000	896	1500	1396



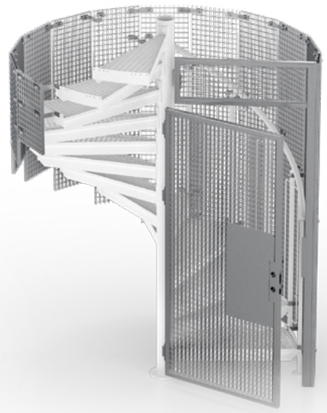
S - flight width
R - stairs radius

3. Cages & doors

GRATING CAGE V1

Vertical panels following step heights, made of 34×38/25×2 attached to raipost using bracket made of bended flat steel.
Door frame and door leaf made of rectangular profiles, filled with grating.
Door frame anchored to the ground and to central column.
Possibility to walk under the stairs.

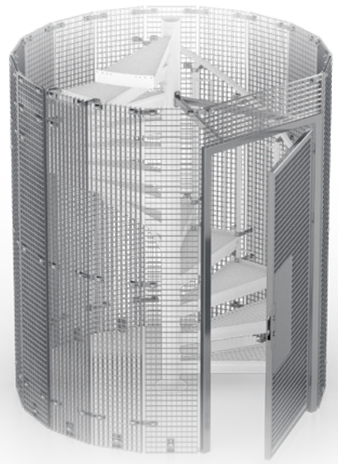
press welded grating



GRATING CAGE FULL/V2

Vertical panels of equal height, made of 34×38/25×2 attached to raipost using bracket made of bended flat steel. Door frame and door leaf made of rectangular profiles, filled with grating.
Door frame anchored to the ground and to central column.
No possibility to walk under the stairs.

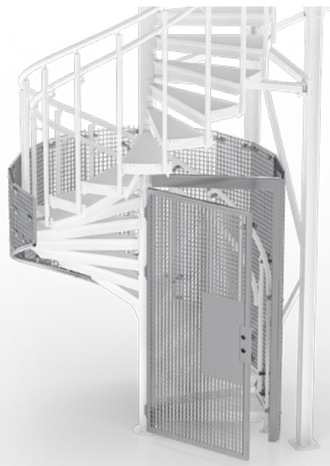
press welded grating



GRATING CAGE V3

Vertical panels made of 34×38/25×2 attached to raipost using bracket made of bended flat steel. Door frame and door leaf made of rectangular profiles, filled with grating. Door frame anchored to the ground and fixed to central column
Possibility to walk under the stairs. The bottom edge along steps is protected by a 42-mm pipe to prevent users from hitting the sharp edge of the cage, ensuring safety in places where children may gather, as for example: schools and healthcare facilities.

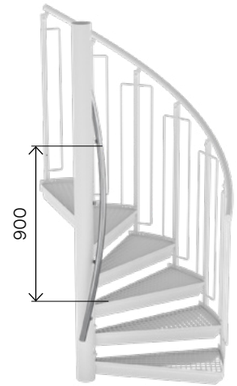
press welded grating



4. Additional handgrips

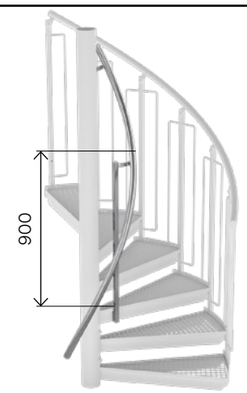
HANDGRIP ON CENTRAL COLUMN V1

Handgrips made of circular pipe 42,4
attached to central columns using flat steel bended brackets.
Riv-nuts or threaded holes in central columns depending on its thickness.



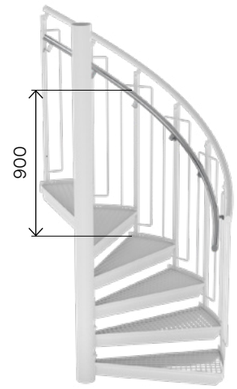
HANDGRIP ON CENTRAL COLUMN V2

Handgrips made of circular pipe 42,4.
Fixed to steps using extra railpost made of square profile 30×30.



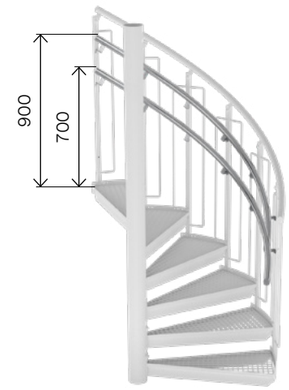
EXTRA HANDGRIP H=900

Handgrips made of circular pipe 42,4
attached to railpost using standard flat steel bended brackets.



EXTRA DOUBLE HANDGRIP (S) H=900 & H=700

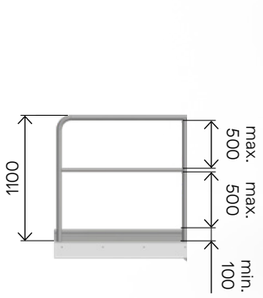
Handgrips made of circular pipe 42,4
attached to railpost using standard flat steel bended brackets.



1. Types of balustrade

INDUSTRIAL ACC. TO EN-ISO 14122

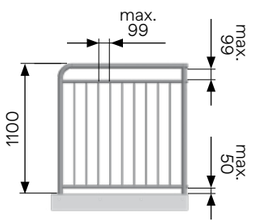
- Handgrip and railposts made of circular pipe ø42,4
- Middle bar made of circular pipe ø26,9
- Equipped with kickplate – 100 or 150 high, #1,5 or #2 thickness depending on width of railing





CHILDREN-SAFE

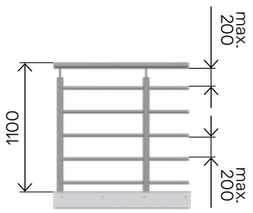
- Handgrip made of circular pipe ø42,4
- Railposts made of circular pipe ø42,4
- Two followers made of circular pipe ø26,9
- Filling of vertical round bars ø12





BALUSTRADE WITH HORIZONTAL FILLING

- Handgrip made of circular pipe ø48,3
- Railposts made of square profile 50×50
- Filling of horizontal circular pipe ø25

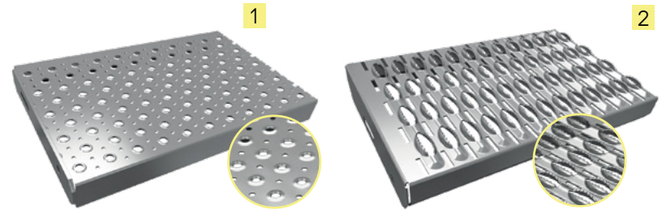




2. Steps types

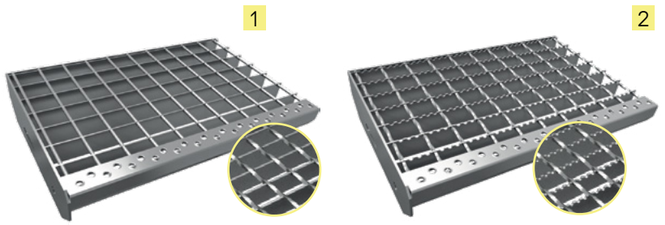
1 PLANK GRATING
2 SERRATED PLANK GRATING (TYPE USA)

- Hot dip galvanized
- Slip resistance DIN 51130: R12



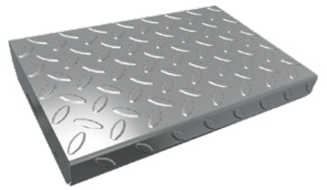
1 WELDED GRATING
2 SERRATED WELDED GRATING

- Mesh 34 × 38
- Hot dip galvanized
- Slip resistance DIN 51130: R10 (1), R11(2)



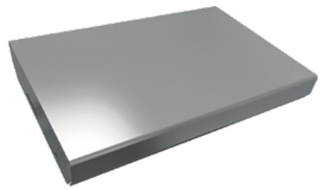
CHECKER PLATE

- Hot dip galvanized
- Slip resistance DIN 51130: R10



STEEL PLATE

- Hot dip galvanized
- Powder painted
- Slip resistance DIN 51130: R9

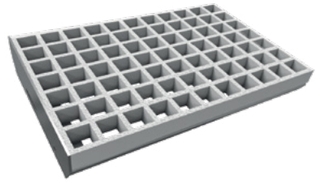


TLC-GES TYPE PROFILED PLANK

- Hot dip galvanized
- Slip resistance DIN 51130: R9



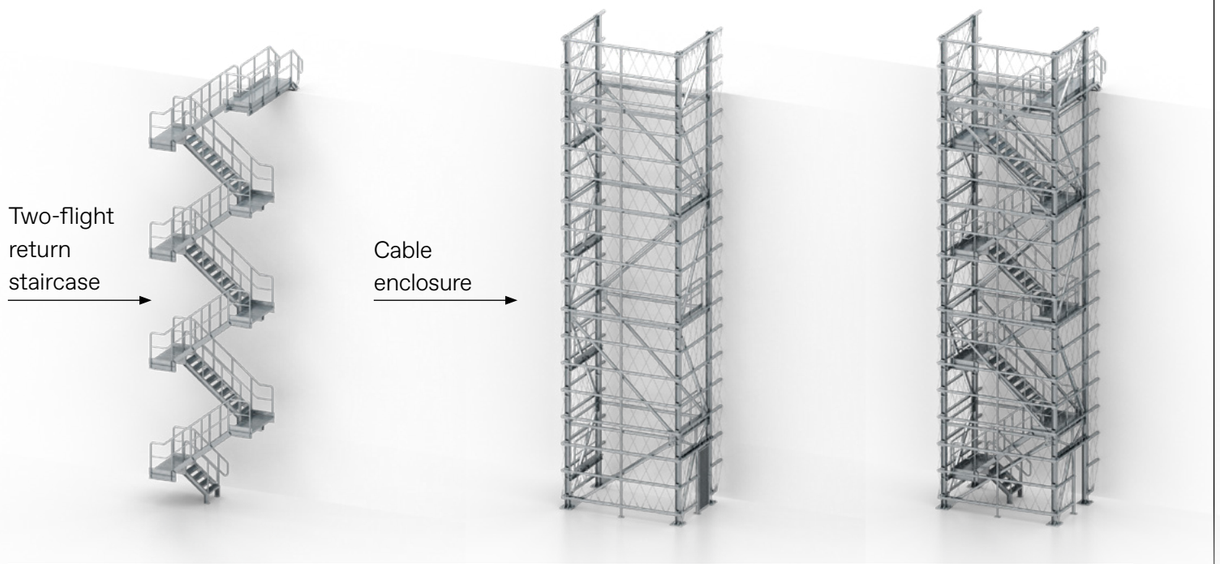
TWS / GRP GRATING



Industrial staircase with cable enclosure

A standardised TLC solution for safe industrial access, based on a two-flight return staircase with durable steel construction and industrial balustrades.

The lightweight steel cable enclosure is prepared for climbing plants, reducing the visual mass of the structure while maintaining functionality, durability and suitability for external use.



MAIN COMPONENTS:

- Structure: S235 / S355 steel
- Stair type: two-flight return staircase
- Balustrade: TLC Standard solution
- Steps and landings: TLC Standard solution
- Anti-corrosion protection: hot-dip galvanising acc. to EN-ISO 1461 or duplex system
- Enclosure: steel cable system prepared for climbing plants



Greenery guided on steel cables



Steel cable enclosure detail



Integrated access gate

Bolted ladder cage system

A STANDARDISED TLC SOLUTION FOR FIXED LADDERS WITH BOLTED SAFETY CAGES.

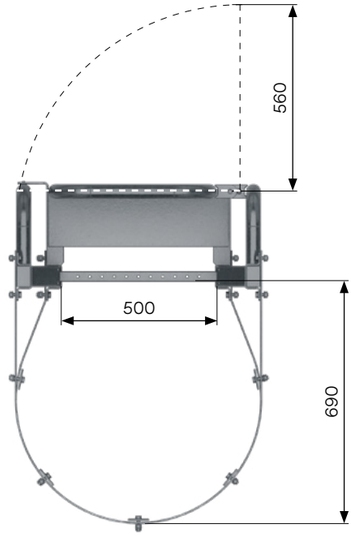
The system is based on repeatable TLC components, allowing the ladder cage to be assembled using standard connectors and bolt sets. This supports faster installation, easier transport and simplified replacement of selected parts when required.

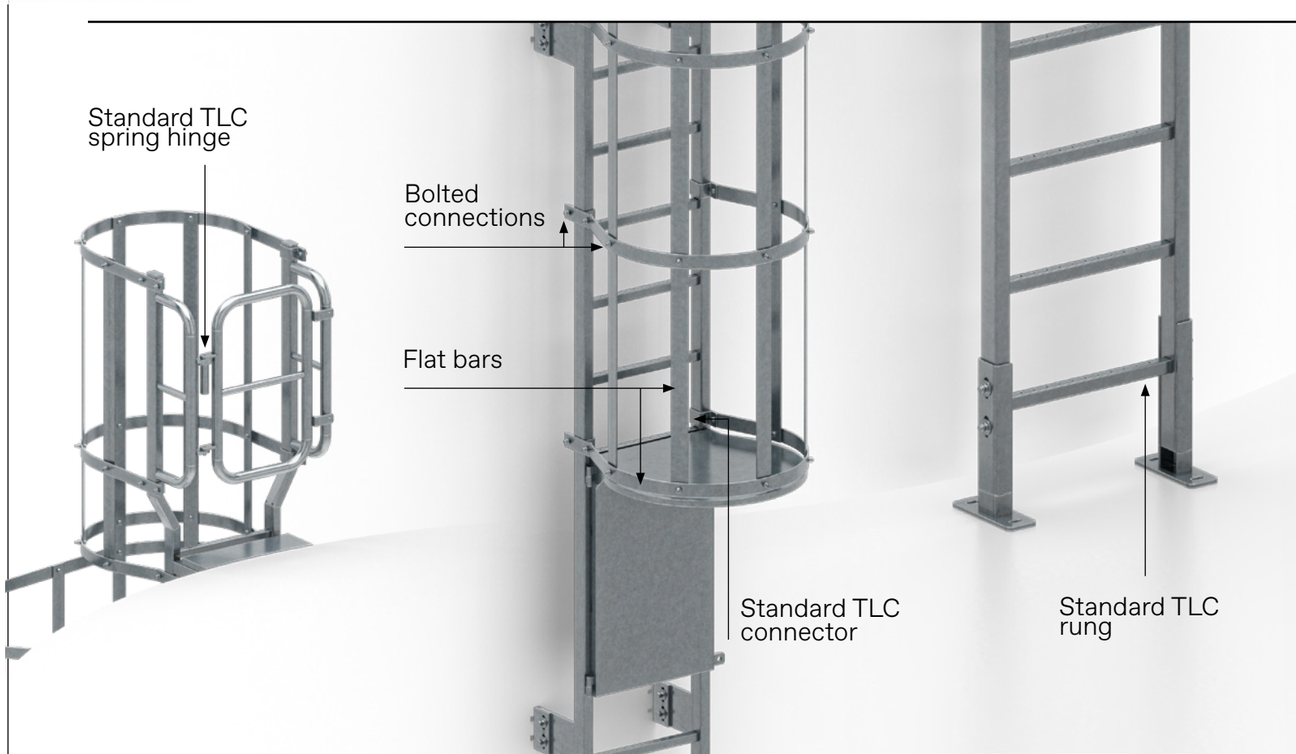
MAIN COMPONENTS AND FASTENERS:

- RHS ladder side profiles
- Flat bar safety cage elements
- Spring hinge and PVC plug for gate configuration
- M10 nut, ISO 4032
- Ø11 washer, ISO 7089
- M10×30 grade 8.8 bolt, ISO 7380

STANDARD DETAILS:

- Rung welding detail according to TLC standard
- Bolted cage connection using standard TLC connector
- Assembly possible on site or at TLC before delivery





TLC EU

The combination of Swedish technology and Polish entrepreneurship has allowed us to specialise in the design and production of solutions for the industrial and construction sectors.

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FRANCE

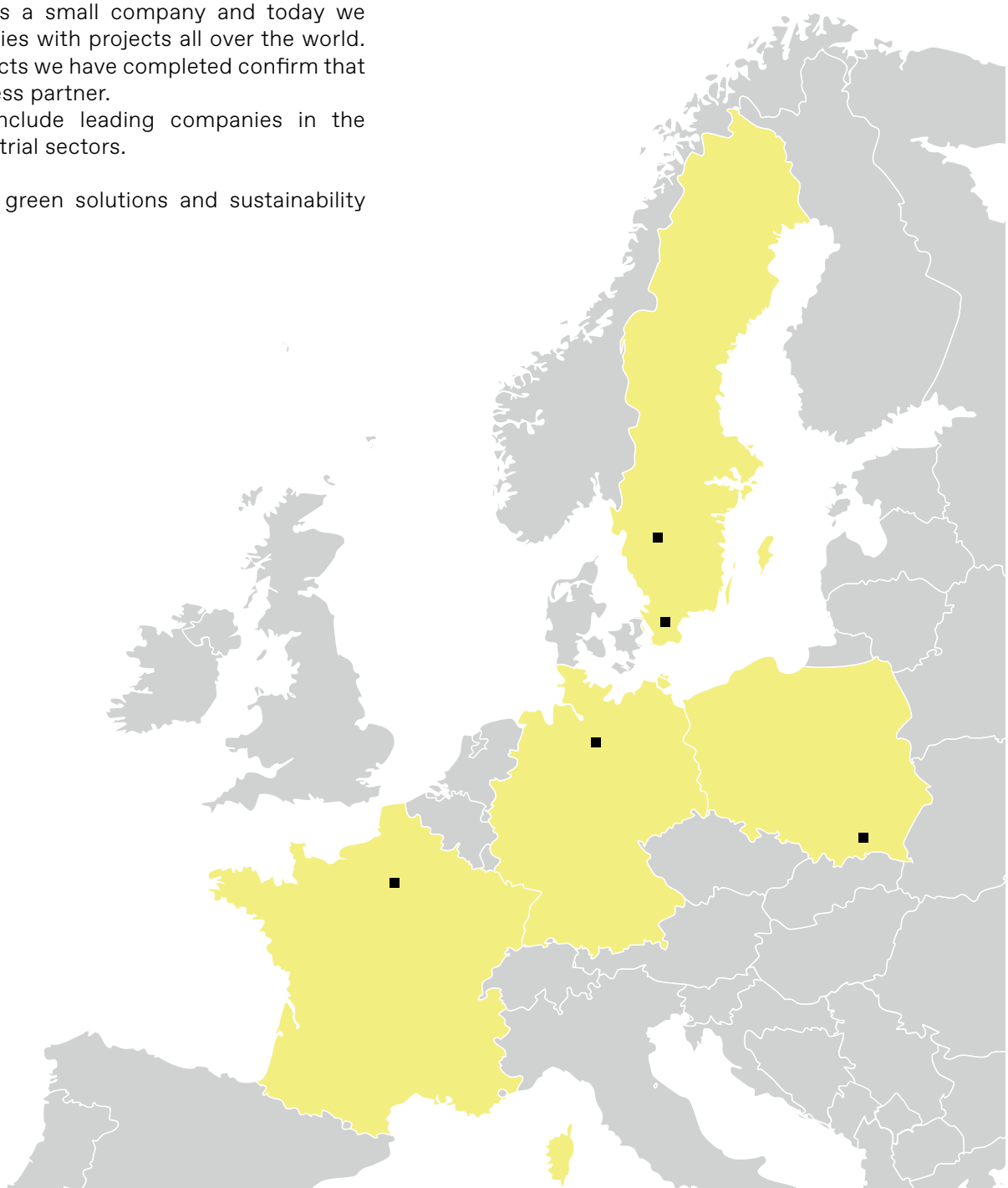
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We started in 2005 as a small company and today we are a group of companies with projects all over the world. The thousands of projects we have completed confirm that we are a trusted business partner.
Our key customers include leading companies in the construction and industrial sectors.

We are committed to green solutions and sustainability in our operations.

Visit our website:
TLC.EU



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