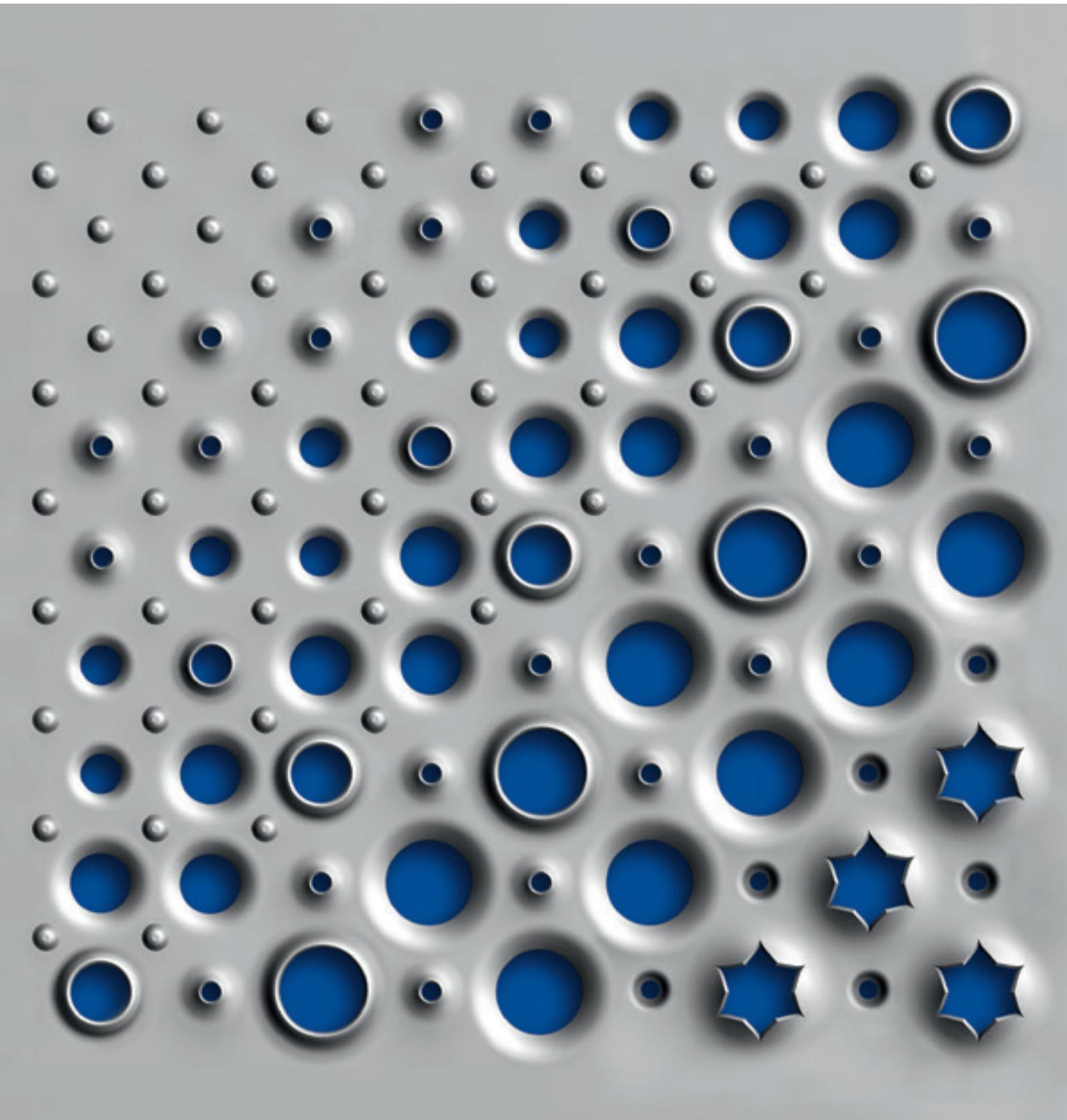


Ahead from the beginning.



The world of Graepel gratings
... for underfoot safety... and more.



Where innovation is at home.

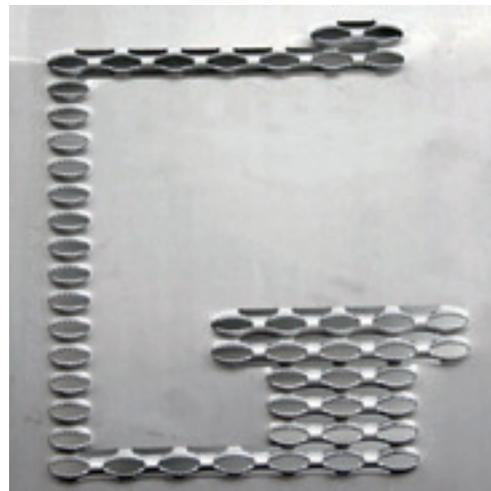
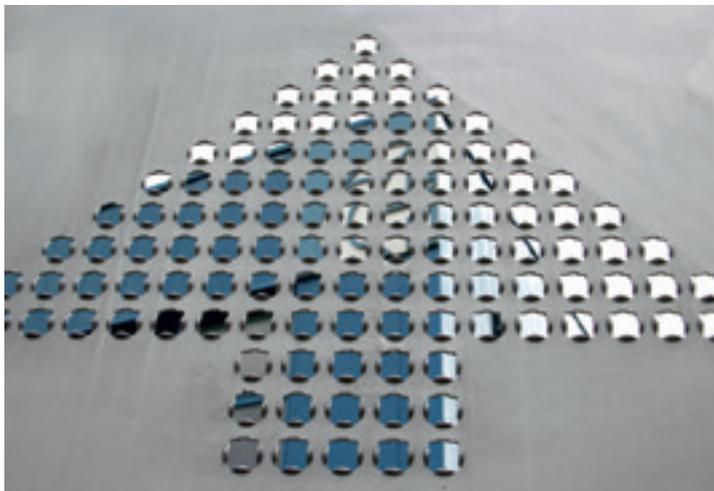
Since 1991, Graepel Seehausen GmbH & Co. KG has belonged to the Graepel Group, a family-owned global company in the 5th generation.

Focusing on underfoot safety, our 220 employees at the company's site in Seehausen manufacture Graepel gratings, ladder rungs and steps with anti-skid surface and produce assemblies for different markets.

Graepel gratings are available in a variety of different perforations for the public and industrial sectors, but also for individual and special requirements. Most of the perforations are program controllable, which allows us to create individual perforation groups.

Our own design department and toolmaking facility enable us to transform ideas of our customers into solutions and to build prototypes.

In Seehausen, we also have an in-house galvanizing shop and years of expertise in corrosion protection as well as a stainless steel and aluminum pickling plant. These services can also be used by companies and private customers already for a quantity of one piece.



This is what sets us apart.

Our certifications:

- **DIN EN ISO 9001** | Quality management
- **DIN EN ISO 14001** | Environmental management
- **DIN EN ISO 50001** | Energy management
- **DAST Directive 022** | Design-specific galvanizing
- **MPA NRW Quality** | monitored products

Other proofs of suitability:

- **DIN EN ISO 15085-2 C1**
(Welding of railway vehicles and components)
- **DIN 18800 Part 7, Class D**
(Constructor's qualification for welding steel structures)
- **DIN V 4113-2**
(Welding of supporting aluminum constructions, class C)
- **DIN EN ISO 3834-2**
(Fusion welding of metallic materials)



Overview



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Steel Construction 20-21

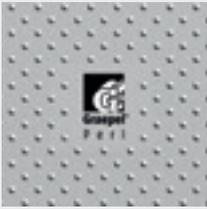


Products for the Building Industry 22-23

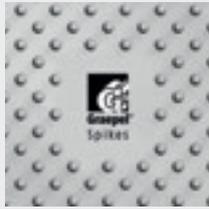


Renewable Energies | Offshore 24-27

Public sector



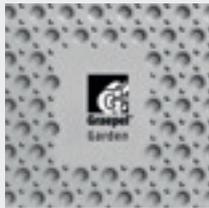
Graepel-Perl



Graepel-Spikes



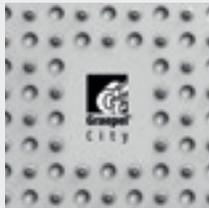
Graepel-Rhombus



Graepel-Garden

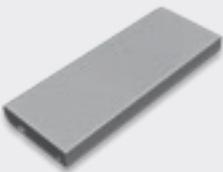


Graepel-Indoor

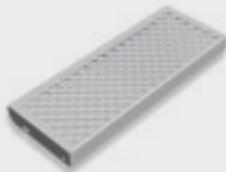


Graepel-City

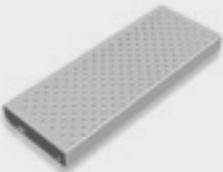
Straight stairway steps



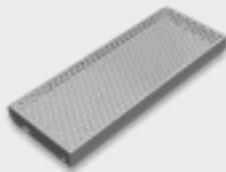
Graepel-Perl



Graepel-City

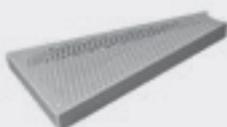


Graepel-Indoor

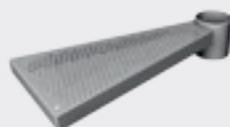


Graepel-Garden

Spiral stairway steps



Graepel-Garden



Graepel-Garden
with welded-on riser tube

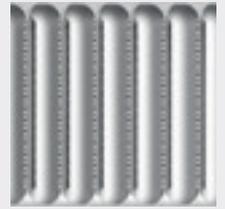
Industrial sector



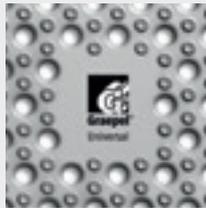
Graepel-Stabil



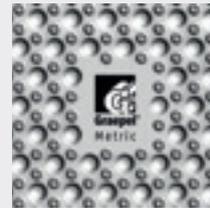
Graepel-Stabil Xtrem



Graepel-Lightprofile



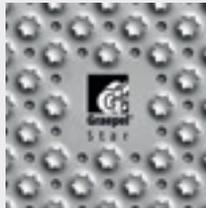
Graepel-Universal



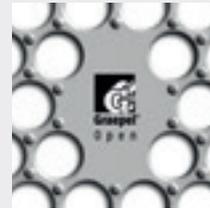
Graepel-Metric



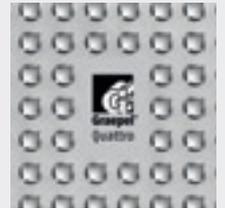
Graepel-Steg



Graepel-Star

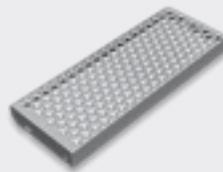


Graepel-Open

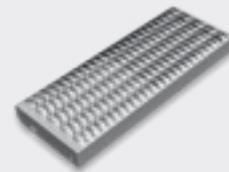


Graepel-Quattro

Straight stairway steps

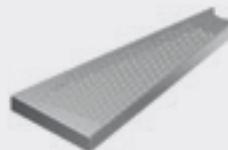


Graepel-Universal

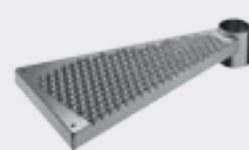


Graepel-Stabil

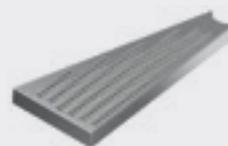
Spiral stairway steps



Graepel-Universal



Graepel-Universal
with welded-on riser tube



Graepel-Stabil

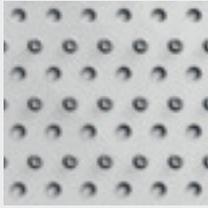


Graepel-Stabil
with welded-on riser tube

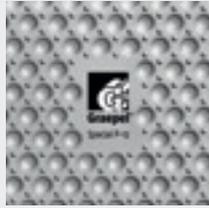


Special perforations

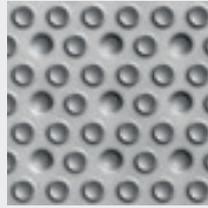
A) Special perforations (selection)



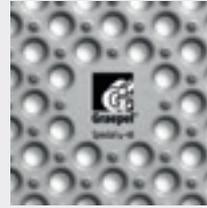
Graepel-Special 8-8



Graepel-Special P-12



Graepel-Special 14-14



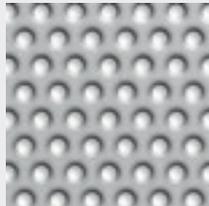
Graepel-Special 4-18

Naming rule: Graepel-Special hole \emptyset upward-hole- \emptyset downward
(P stands for Perl)

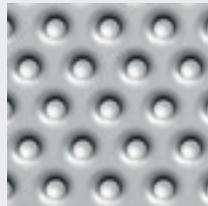
B) Special perforations without slip resistance (selection)



Graepel-Glide 4



Graepel-Glide 12



Graepel-Glide 15

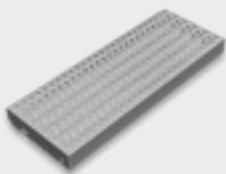


Graepel-Glide 18

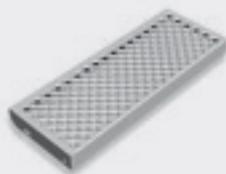
Naming rule: Graepel-Glide hole- \emptyset downward

Features like program perforation, edge perforation etc. are not shown as separate perforations but as options.

Straight stairway steps

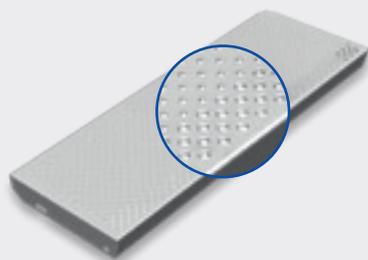


Graepel-Special 8-8



Graepel-Special 4-18

Special type: Architects step



Graepel-Perl with perforated stepping edge

Please note: The steps for all areas are program controllable.



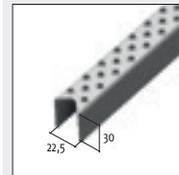
Stairway steps



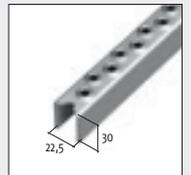
Spiral stairway steps

Ladder rungs

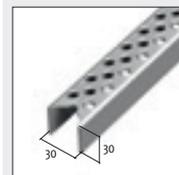
Naming rule:
Graepel-Width-Perforation



Graepel-22-Round4

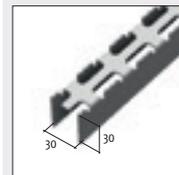


Graepel-22-Round8

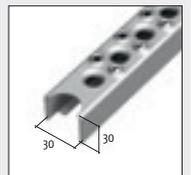


Graepel-30-Round6

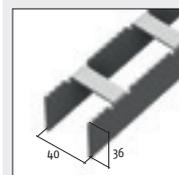
Unperforated edge as well as inner edge are features of Graepel-30-Round6.



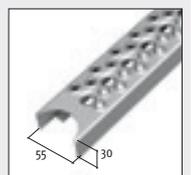
Graepel-30-Grip



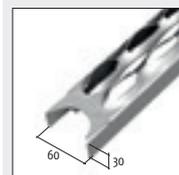
Graepel-35-Metric



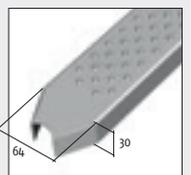
Graepel-40-Lightprofile



Graepel-55-Metric



Graepel-60-Stabil



Graepel-64-Perl

For more information please visit www.graepel.de/en.



Perforations



Ladder rungs

Graepel supports crane builders and manufacturers of wind power plants in managing their mammoth tasks.



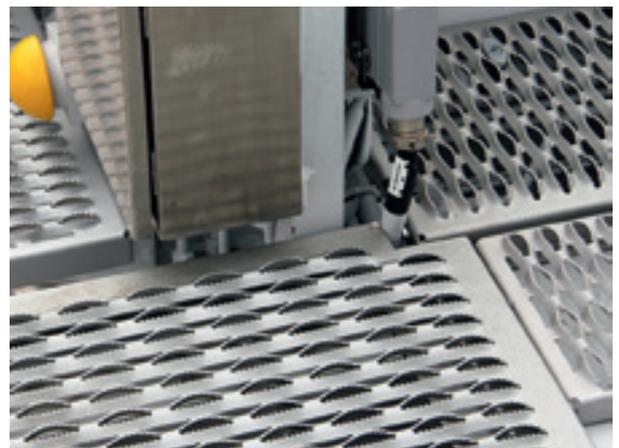
With us at the highest level.

Helmets are compulsory on a building site. The helmet protects the head from impacts from above. Underfoot safety is ensured by Graepel gratings.

They are particularly suitable for difficult conditions and meet the highest demands on durability and stability, because heavy pollution, vibrations, exhaust air and weather influences make maximum demands on man and machine on the building site.

Upward beads ensure slip resistance while debossed holes provide for drainage and thus also for ventilation and the view of underlying machine parts.

Manufactured according to individual customer specifications, Graepel supplies treads, platforms and steps with railings for use on construction sites or as ready-to-install assemblies for use on construction machines.



For more information on this industry and many more solutions, please visit www.graepel.de/en.



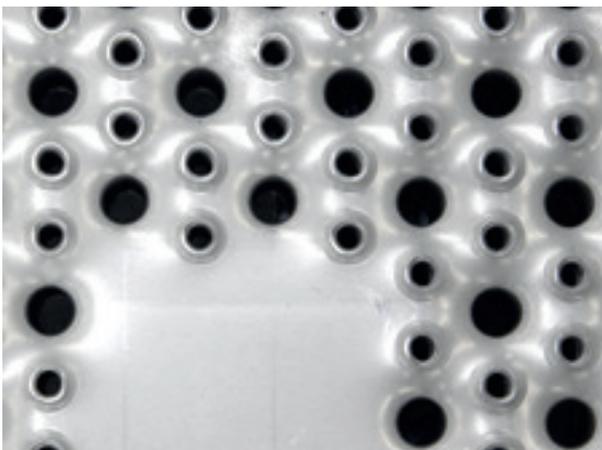
With us on the safe side.

Construction machines do a hard job. Graepel treads ensure that machine operators can get on and off easily and safely.

In addition to reliability and safety, a design of construction machinery, such as wheel and hydraulic excavators, front-end loaders and crawler vehicles, meeting the exact requirements of the operator becomes more and more important.

Graepel produces e.g. steps with integrated tool box and perforated stepping edge to prevent slipping. Graepel gratings can also make crane booms accessible.

The program control allows the perforation to be adapted to contours or to create unperforated areas in the surface pattern, where holes, company logos or cut-outs can be placed later.



For more information on this industry and many more solutions, please visit www.graepel.de/en.





This step with integrated tool box also has a flexibly suspended lower tread.

For power packages

Graepel has developed assemblies which can be used wherever differences in height must be overcome on construction machinery. We manufacture e.g. two- or three-level steps for accessing the driver's cab. They are fitted in between the wheels and can vary in length depending on the manufacturer and type. The perforation Graepel-Universal ensures slip resistance.

These steps, which can also be combined with an integrated, lockable tool box, come as a complete assembly. The tool box can be made of painted steel, galvanized steel or plastic as requested by the customer.

A close-up, low-angle shot of a truck's metal grate, likely for a truck bed or engine compartment. The grate is made of silver-colored metal with a grid pattern. To the right, there are various mechanical components, including a silver metal fitting with a red cap and a black hose. The background is slightly blurred, showing the interior of the truck's cab or engine compartment. A blue text box is overlaid on the bottom left of the image.

If vehicle manufacturers use Graepel gratings for equipping their trucks, it's only because both of them have the same standards for quality and perfection.

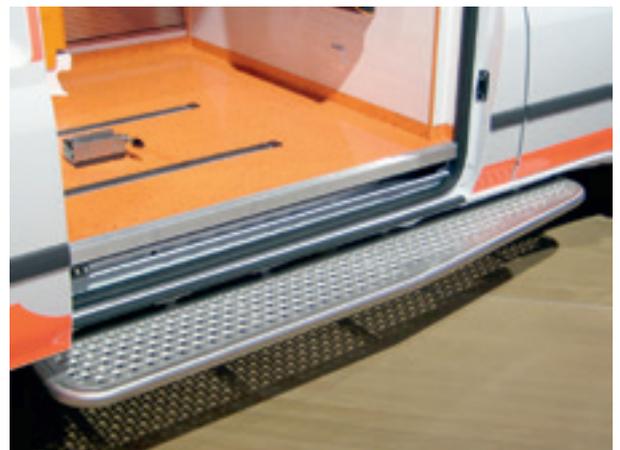
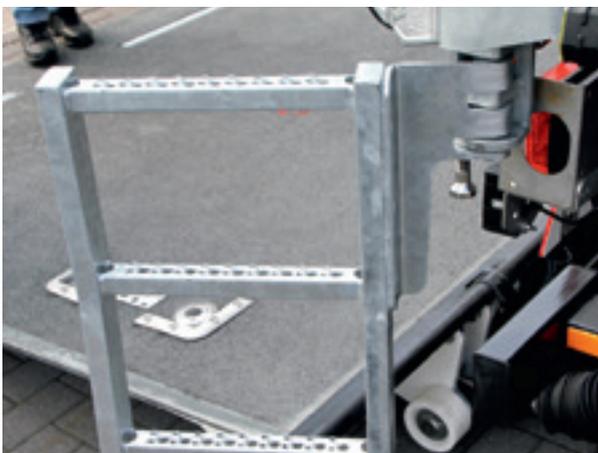


With us safely on the road.

Everything would stand still without commercial vehicles. However, they can only fulfill their purpose if they are safe to use.

Because each commercial vehicle is different, we develop customer-specific solutions based on our Graepel gratings. We produce e.g. runways with beveled skirting board for tank and silo vehicles, treads and steps for various commercial vehicles (ambulances, distribution vehicles, recycling vehicles, etc.), service platforms for semitrailers and containers as well as ramp tracks and ramps for trailers and delivery vehicles.

All these components have the same task: to enable the operator to get on and off safely. They are designed in such a way that they fit perfectly into the individual appearance of the vehicles and are supplied pre-assembled and ready-for-installation: All at one stop.



For more information on this industry and many more solutions, please visit www.graepel.de/en.



Handling loads with us.

Container terminals are the hub for trade and cargo handling. Despite high automation, the human factor is still decisive.

Modern container terminals are top performers. Short turnaround times guarantee high profitability. This "organism" is a broad application area for Graepel products.

Whether as steps on container stackers and terminal tractors or as maintenance platforms and stairs of cranes and bridges: Graepel gratings, steps and treads provide for underfoot safety and thus for more movement.

And finally, more mobility leads to more speed and productivity in the port. And that keeps the economy going.



For more information on this industry and many more solutions, please visit www.graepel.de/en.





For heavyweight machinery

Reachstackers are superior in transporting heavy loads in the most extreme conditions: in ports, in metal processing, mining and other heavy load applications, they offer reliable robustness and dependability.

Graepel provides reliable and proven components for the safe entry and exit of the drivers.

Thanks to an outstanding manoeuvrability and superior handling speed, reach stackers achieve maximum space utilization on container terminals and ports.



Tread of type Graepel-Stabil, hot-dip galvanized steel, all-round welded-on with integrated stepping edge



Graepel gratings ensure underfoot safety as reliably as agricultural machines work the land lane by lane.



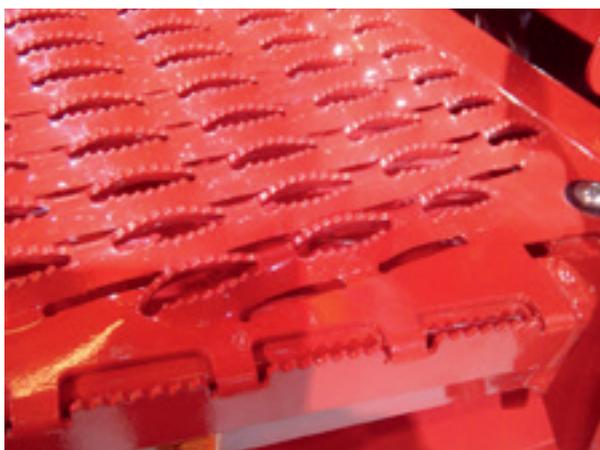
Harvesting success with us.

Whether it is a matter of developing individual parts or supplying entire assemblies: Graepel meets the special requirements in agriculture.

Agricultural machines work fields and meadows, forest areas and vineyards, lane by lane. They plow and sow, fertilize and select, clear and mow, chop and sieve, separate and press.

Real all-rounders are used which can be combined with various attachments, or highly effective specialized machinery.

For the most diverse product families of agricultural machinery, Graepel offers treads, platforms and runways with maximum underfoot safety.



For more information on this industry and many more solutions, please visit www.graepel.de/en.



Moving a lot with us.

Railway vehicles are in constant use for a long time. That is why their treads have to meet highest demands regarding life and load capacity.

Because of their high quality standards, Graepel treads are extremely suitable for assembly onto railway vehicles.

Graepel safety gratings are increasingly used as walking surfaces on freight wagons. They can be mounted on the roof for inspecting the containers, but also as platforms between the wagons.

They can also be used as coverings or tracks for wagons which transport vehicles of various types by rail, e.g. for tunnel or car trains.

As assemblies, Graepel gratings are used as steps on locomotives of various manufacturers.



For more information on this industry and many more solutions, please visit www.graepel.de/en.





One-level treadboard with all-round welded-on anti-skid edge of type Graepel-Universal, stainless steel, pickled.

For passengers

This tread has been specifically designed to allow passengers to safely get in and off regional trains. It bridges the distance between the train and the platform, thereby increasing the safety of the passengers.

The serrated stepping edge prevents anyone from slipping over the edge.

Some develop ideas to overcome the force of gravity. We take care of slip resistance and grip, even at dizzy heights.



Reaching new dimensions with us.

Even if not all projects are as spectacular as the fairground rides all over the world, accessibility is a prerequisite for the safe operation of installations irrespective of their size.

Graepel gratings offer significant advantages over open mesh flooring in steel construction: They offer highest load capacities at a low dead weight. And less substructure is required due to the load capacity in longitudinal direction.

With slip resistance and drainage effect, Graepel gratings and steps provide for safe accessibility all year round.

Graepel has developed a catwalk system for accessing roofs, containers, tunnels or facades which offers various standard modules with integrated railings, which can be combined as desired.

This makes it easy to adapt internally mounted or all-round catwalks to a wide range of different tasks.



For more information on this industry and many more solutions, please visit www.graepel.de/en.



With us in the spotlight.

Our gratings allow for a dazzling presentation and have the potential to become an eye-catcher in public buildings.

Graepel gratings are primarily used to ensure underfoot safety. Due to their pattern of holes and beads, they have a graphical structure that also adds an aesthetic appeal to the gratings.

That is why architects are increasingly using the gratings as ceiling lining and facade cladding. They are air and light permeable, dissipate waste heat, reduce solar radiation, and the view through the gratings is prevented.

And the metal “dress” has another advantage: it also provides mechanical protection.

Graepel also offers suitable steps for straight and spiral stairways for an attractive design of exterior and interior spaces.

The gratings are now also offered in various colors, but remain as slip-resistant as ever, despite the coating, and make individual projects an eye-catcher.



For more information on this industry and many more solutions, please visit www.graepel.de/en.





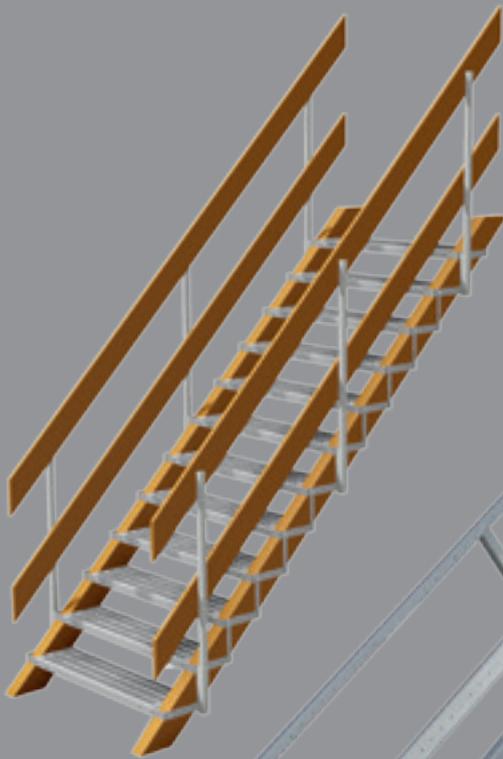
The Graepel-Steg perforation can be used in a variety of ways: as runway or for enclosures and covers.

For builders

The aesthetic look of our perforations persuaded architect Daniel Libeskind to use Graepel gratings for the extension of the Military History Museum in Dresden. He has driven a wedge through the historic building to symbolize the destructive power of war. For the design of the facade, he used Graepel gratings made of anodized aluminum. The metal itself, the rhythm of the perforation and the strictly symmetrical arrangement of

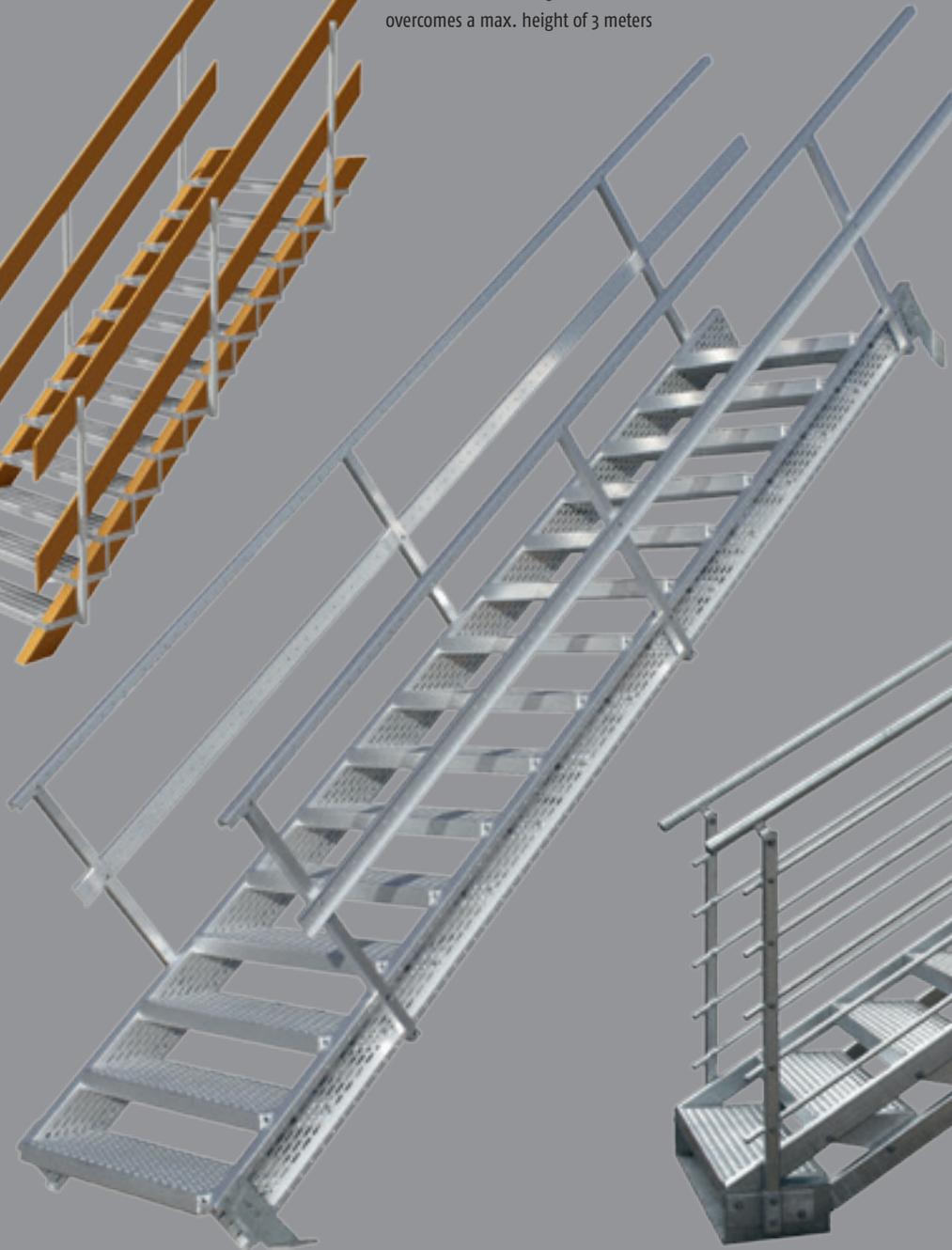
the metal profile gratings allow associations to the military and correspond to the exhibition. The tip of the wedge points to the place where the bombardment of the city started on 13 February 1945.

In the end, the wedge itself becomes an exhibit as its interior is accessible and offers visitors views of Dresden.



Construction stairway
overcomes a max. height of 3 meters

Aluminum stairway
overcomes a max. height of 3 meters,
variable in height, rise and slope



Movable stairway
in 3 standard versions with 6,
11 and 15 steps

Note: All stairways are designed for up to 1.5 kN individual load and 3.5 kN/m² evenly distributed load

Going up with a movable stairway system from Graepel

Construction stairway

The standard version of the construction stairway is made of aluminum (Graepel-Stabil steps) and consists of a stairway package of approx. 70 kg. You only need 2 two-by-fours, 4 planks and mounting screws.

Simply insert two sufficiently long two-by-fours on the right and left side, then put upright and unfold the stairway like an accordion. Bolt the railing posts and planks, these serve as handrail and knee protection. Ready is a stairway that must simply be set-up and fastened.

Aluminum stairway

This flexible stairway assembly kit is designed for human load. The steps (Graepel-Universal) are bolted between two stable aluminum strings. The elongated holes in the strings and steps allow you to modify the rise of the stairway at installation. You can even create a flat surface.

The standard version consists of 15 steps. All required components and assembly instructions are completely delivered. Other lengths are also available on request.

Movable stairway

The stairway is made of hot-dip galvanized steel (Graepel-Universal steps) and is suitable for commercial and private use.

The movable stairway is almost completely pre-assembled. On site, it just needs to be set up and fastened to a ramp/wall or platform. Then the railings must be mounted. The stairway design allows for various slope angles. The standard railing can be used for an angle between 0° and 37°. If the angle lies above 37°, the base rail must be removed.

With us through time and space.

Although our gratings are designed for continuous use, they can also be used for temporary purposes. Graepel offers different standard solutions.

Our pedestrian bridges can bridge trenches up to a width of 3.80 m temporarily. The integrated access ramp allows also wheelchair users and pedestrians with baby carriages to safely cross trenches. Thanks to the aluminum construction, they can be folded, stacked and transported without much effort.

To make slopes accessible, Graepel offers special embankment stairs made of aluminum that can be adapted to the slope. They are delivered with railings.

If loose surfaces – as on building sites – must be made accessible also with heavy vehicles, Graepel flooring sheets are a safe option for making unpaved areas temporarily or permanently accessible. They are reusable.



For more information on this industry and many more solutions, please visit www.graepel.de/en.



Play it safe with us.

Plants for alternative energy generation shall be trouble-free at long sight and must therefore be maintained on a regular basis. However, their walking surfaces made of Graepel gratings and steps are naturally low-maintenance and easy-care.

Due to their large open area, the perforations of type Graepel-Stabil and Graepel-Stabil Xtrem are particularly suitable for outdoor applications with high dirt volume and precipitation. Therefore, they are ideally suited for running boards on fermenters of biogas plants.

Hot-dip galvanizing ensures a long service life even under extreme stress due to weather conditions and aggressive substances.

For wind power plants, Graepel offers a variety of components: entrance stairways and resting platforms for tower construction as well as walking surfaces and covering areas for the gondola. The aluminum design is particularly suitable for reducing the weight in the gondola.



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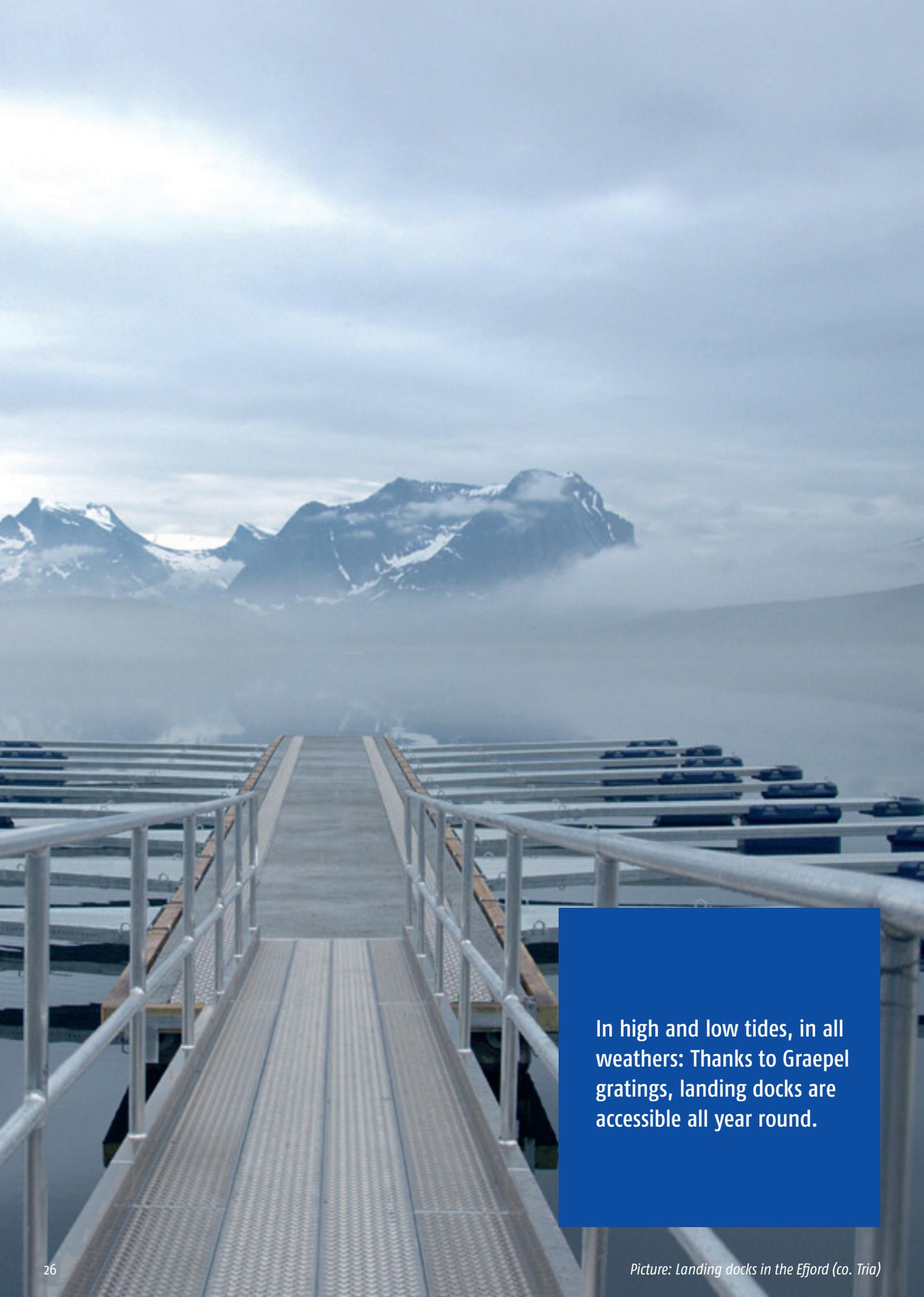




Graepel offers various straight stairway steps for the public and industrial sectors. The step of type Graepel-Stabil is only suitable for use in industrial plants and offers high slip resistance and drainage.

For all-rounders

Using Graepel gratings for all walking surfaces is a safe decision: Graepel supplies catwalks with railings and mounting brackets, steps and platforms according to individual specifications. This allows for a high degree of flexibility in your projects.



In high and low tides, in all weathers: Thanks to Graepel gratings, landing docks are accessible all year round.



Withstanding wind and waves with us.

Underfoot safety and secure grip are provided by Graepel gratings made of sea water resistant materials.

Due to extreme weather conditions, workplaces in offshore facilities require a maximum degree of slip resistance.

We keep that in mind. The design and material of Graepel runways, steps and ladder rungs are perfectly adjusted to the extreme conditions at sea and make them excellent for use in marinas and fish farms.

Offshore wind power plants require a platform on the turbine house where the servicing staff can be safely dropped off from the helicopter. We supply complete platforms of

type Graepel-Star of saltwater-proof aluminum which were painted in the colors required by the regulations for helicopter decks on offshore wind power plants.

For drilling platforms, Graepel offers offshore steps with perforation Graepel-Stabil. The stairway step is equipped with an anti-skid edge which prevents slipping off.



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