

# Grating



**WELAND**

# Gratings



## ***From building facades to heavy vehicle traffic***

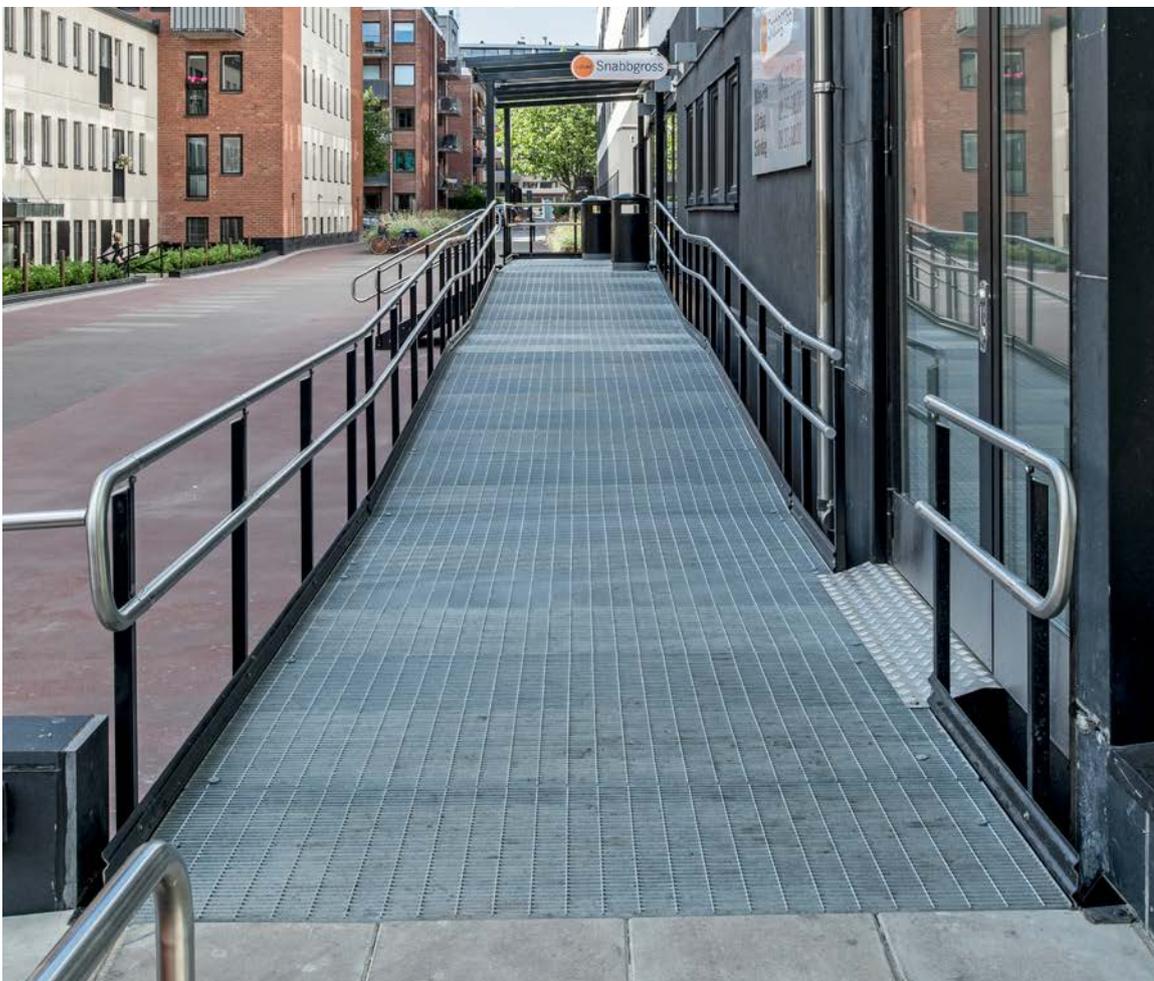
*Gratings are typically used in industrial settings and environments with stringent safety requirements. However, they can also be used as privacy screening or to decorate a building front. We manufacture gratings for entrances, vehicular and pedestrian traffic, and also for ramps, fences and facades.*

### **Types and versions**

Gratings are made in three different versions: A-type grating, pressure welded grating and eco-grating. Each version is available in many dimensions, different mesh widths and finishes.

### **We can help you choose**

We keep the most popular sizes and types of gratings in stock. We also accept custom orders should you require a grating with specific dimensions or with a special finish. We offer fast supply and can assist you every step of the way from project planning to finished product.



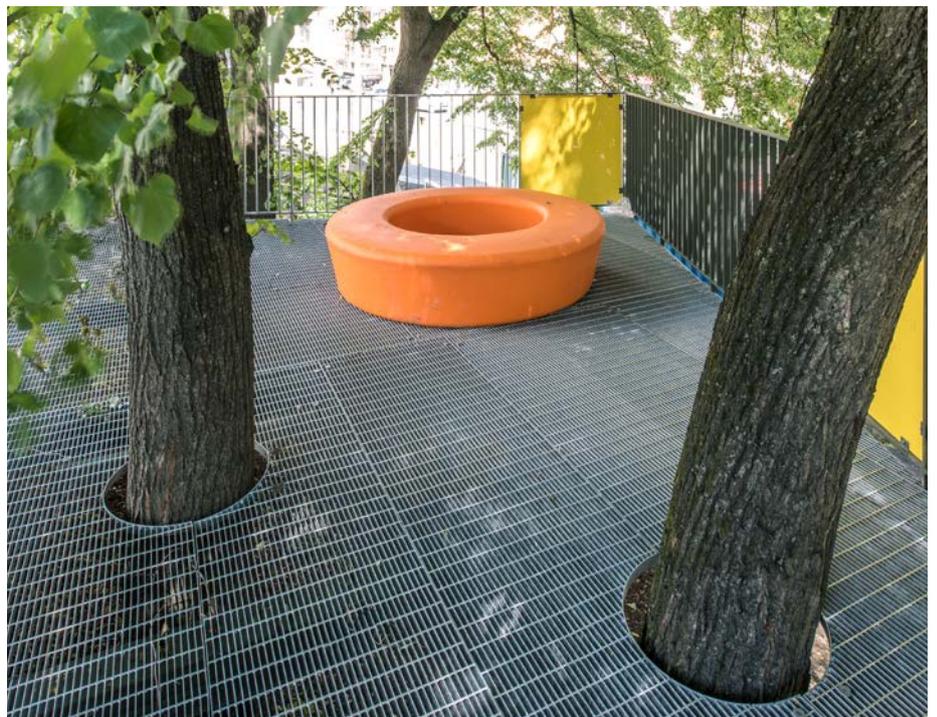
## ***Fast delivery from stock or custom-made to your requirements?***

### **Standard products**

We keep gratings in the typically-used dimensions (H3, H6, N6) as standard stock items. These are available for supply in 10 mm intervals from 300 to 2000 mm. Gratings can also be supplied in full-size lengths of 3000 - 6000 mm, which means that we can offer fast supply whenever you need them.

### **Made-to-measure**

Our gratings are available as custom-made orders cut to your requirements. We will be pleased to help you decide on the right grating solution among the various properties and functions available. We're never more than a phone call away.



# What type of grating do you need?

*Our gratings come in different materials and finishes with varying dimensions, mesh widths and materials. We have categorised our grating products according to their different applications. The gratings are delivered straight from our warehouse or custom-made to your requirements with a short delivery time. Call us if you need help in finding the right grating.*

## Walkway grating

We stock a large assortment of walkway gratings in ready-made standard formats. This means fast delivery and easy assembly.

## Vehicular grating

We offer vehicular gratings for both light and heavy traffic. They come in ready-made formats for immediate delivery from our warehouse or are custom-made to your requirements.

## Serrated grating

The serrated grating has a notched surface for anti-slip protection in slippery environments.

## Entrance grating

We keep a large assortment of denser-mesh entrance gratings. These are available in ready-made standard-stock formats. We make entrance grating for anywhere from large shopping centres to small properties.

## Coarse-mesh grating

Coarse-mesh grating is typically used for anti-burglary guards of various kinds, fences and false

ceilings. This grating is available in different mesh widths or custom-made to your requirements.

## A-type grating

A-type grating is manufactured with flat steel in both directions and is commonly used in settings with aesthetic criteria.

For example, outside entrances or on building facades. A-type grating can also be produced in an extra heavy-duty version to withstand extreme loads such as from heavy vehicle traffic.

## Eco-grating

The eco-grating is manufactured with a thinner zinc coating. This ensures reduced impact on the environment, while providing the same robust load-bearing capacity of other gratings.

## Full-size grating

We manufacture full-size grating in lengths of three to six metres with various mesh widths and load bearing bar heights.

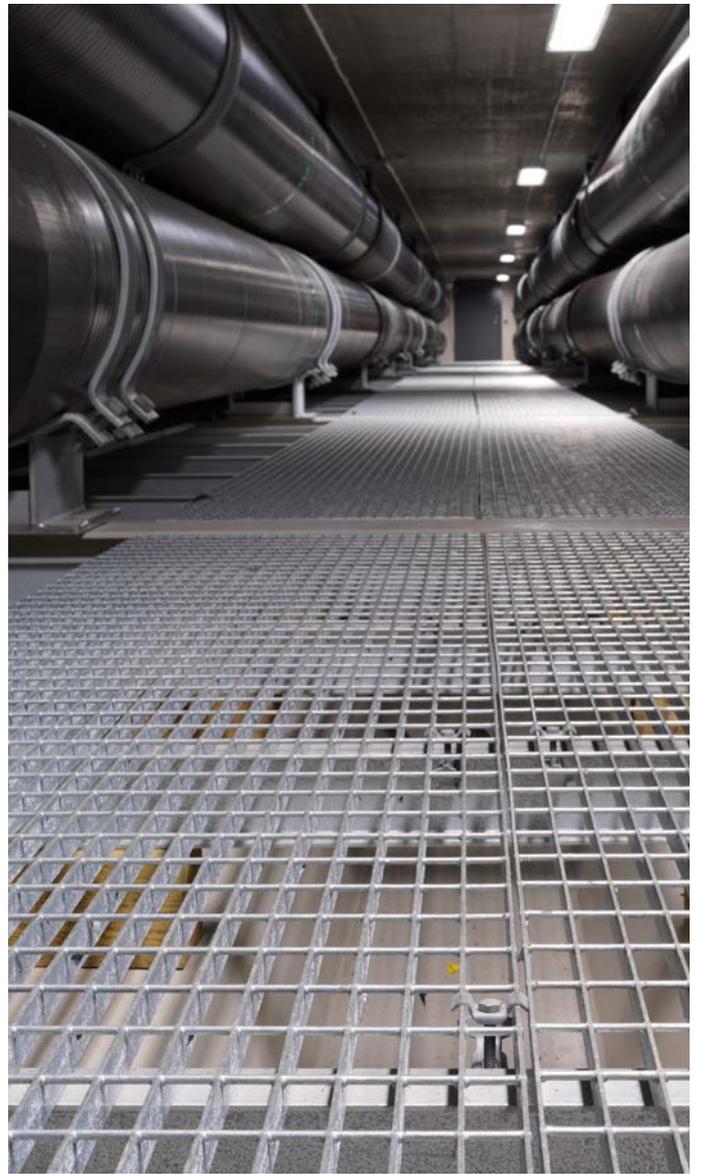


## Stainless steel grating

Our stainless steel grating is available as pressure-welded grating or A-type grating. The material grade conforms to EN 1.4301 or EN 1.4420.

## Aluminium grating

The aluminium grating is manufactured in the same way as the A-type grating, but using a lighter-weight grade of material conforming to EN AW 5764. The aluminium grating is stable, easy to handle and is available in various heights.



# Walkway grating

*We have walkway grating for safe passage in all environments. Walkway grating reduces transparency when installed at high elevations, minimises the risk of objects falling through the mesh and provides enhanced anti-slip protection in environments where oil spills occur. Our range comprises safe and durable walkway grating for floors, ramps and gangways.*

## Grating for pedestrian traffic

Our most commonly sold walkway grating is made from pressure welded grating, but we also have A-type walkway grating (made with flat steel in both directions) and Eco-grating, which is our most environment-friendly option. Let your surroundings guide your choice, and if you have trouble choosing or need advice, we will be pleased to assist.

## Fast delivery in ready-made sizes

All of our gratings are available in a large number of ready-made stock formats for dependably fast supply, seamless project planning and ease of handling regardless of which walkway grating you choose. To further facilitate our rapid supply capacity, we stock a large number of kerb angle frames specially designed for all of the grating heights.

The walkway gratings come in three different mesh widths (from open to closed) and are available from 25 to 40 mm in height depending on the mesh width. The ready-made walkway grating is available in lengths of 10 mm intervals from 300 to 2000 mm. The width is always a standard 1000 mm. All walkways are supplied with edging bars and are hot dip galvanised as their surface finish.

Place your order for a ready-made format from our warehouse by 10:00 am, and we'll deliver same day.

## Full-size and made-to-measure walkway gratings

Walkway gratings are available to order in three versions, with load bearing bar heights, mesh widths and formats to your requirements. Walkway gratings are offered in lengths from 300 to 6000 mm. The full-size grating is 1000 mm wide.

We will be pleased to assist in your project planning.



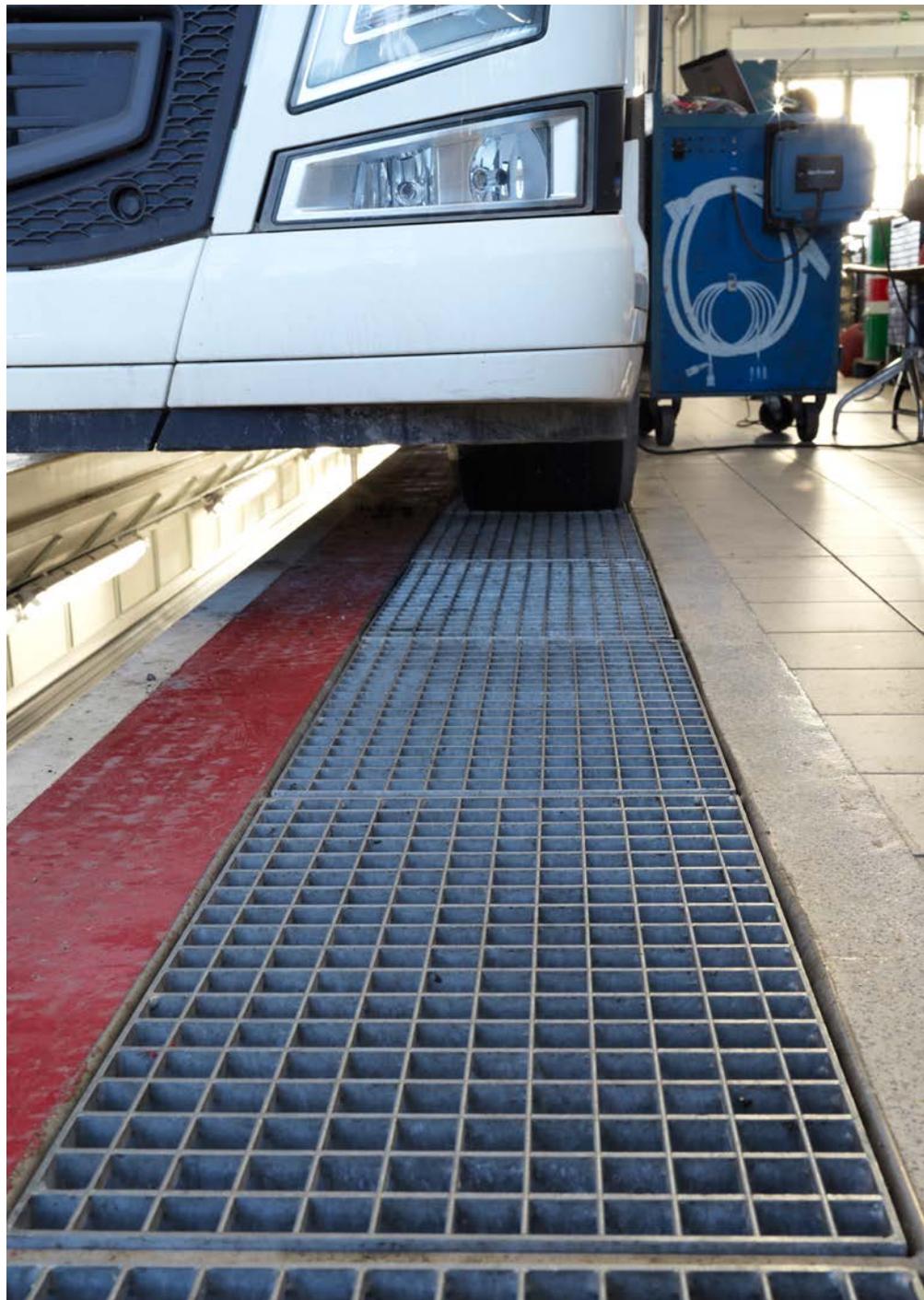
## ***Vehicular grating***

*We have vehicular grating for everything from cars and trucks to heavy goods lorries. When making your selection from our vehicular grating, it is important to consider the estimated vehicle stresses. Take care to base your choice on the traffic flow direction, area of the pressure surface, load per wheel and maximum span. We can help you find the right solution.*

### **Ready-made, made-to-measure or full-size?**

We stock the most commonly used vehicular grating formats, and they are available for immediate delivery, seamless project planning and handling. Make your choice from our wide assortment of gratings, which fulfil the typical load requirements, and add a suitable kerb angle frame to your order.

We have stock kerb angle frames for all grating heights, and also offer to custom-manufacture vehicular grating to your dimensions and requirements. For more information and detailed load tables, please consult our website.

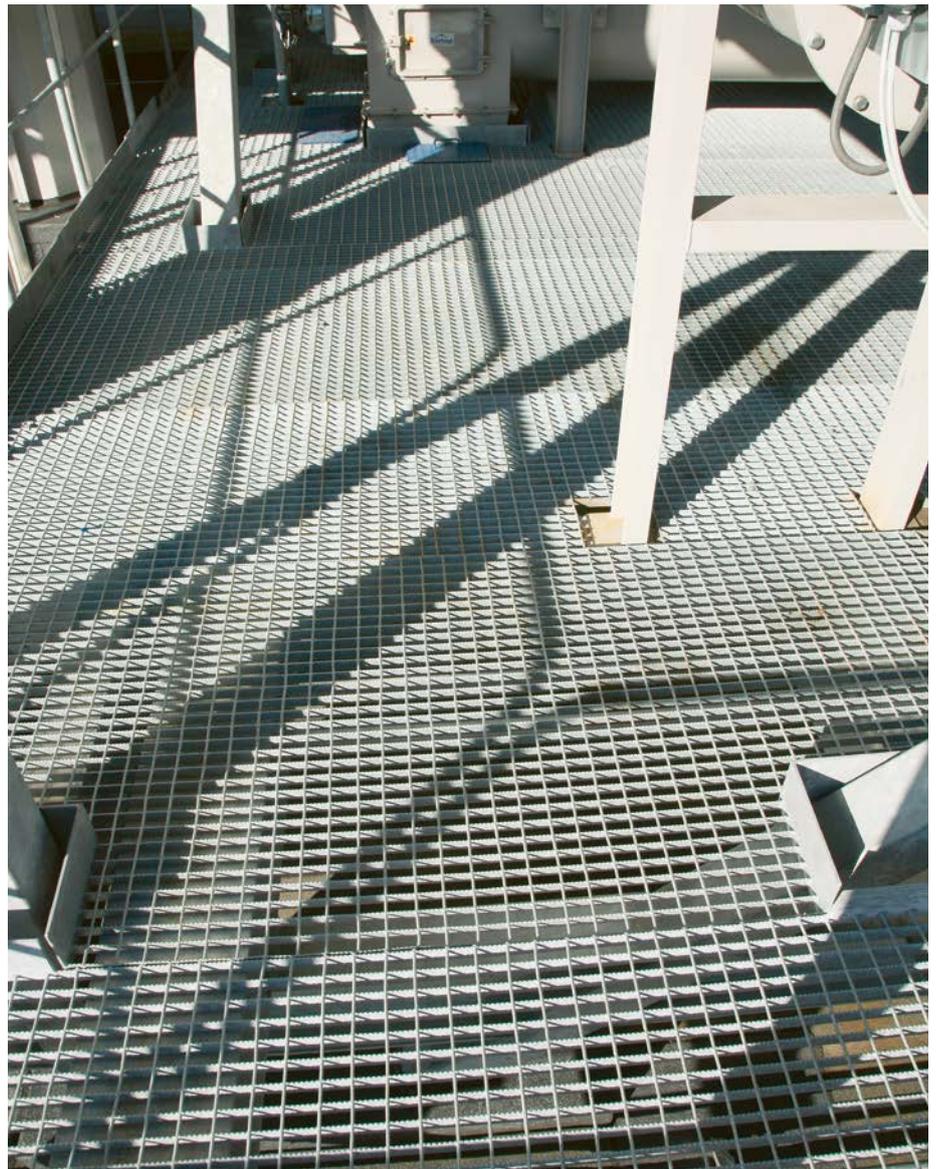
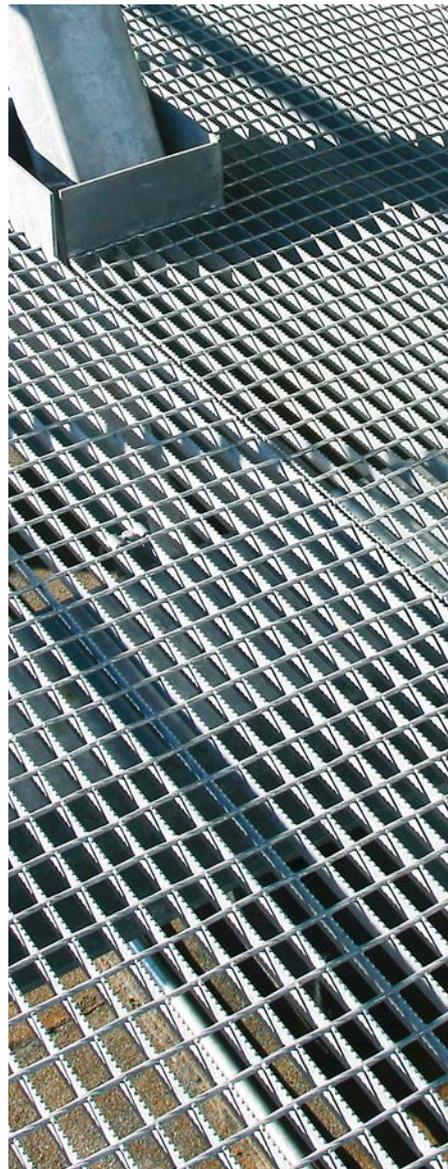


# Serrated grating

*A grating with a serrated top provides a safe, anti-slip surface in all settings. The serrated grating is typically used where oil spills might cause problems. We have gratings specially made for use in the offshore industry. Call us for more information.*

## A safe surface in several formats

Our serrated grating is made from pressure welded grating. The gratings are available in different mesh widths and load bearing bar heights of 25 to 60 mm to meet your load requirements. All serrated gratings are non-stock items, and are always custom-made to your dimensions, specifications and preferences.



## Safe gratings for the offshore industry

We offer two types of serrated gratings for the offshore industry: HN9-T and JN9-T. In this grating, every other load bearing bar is replaced by a round bar. This results in reduced weight and satisfies the requirement for a maximum mesh opening of 15 mm.

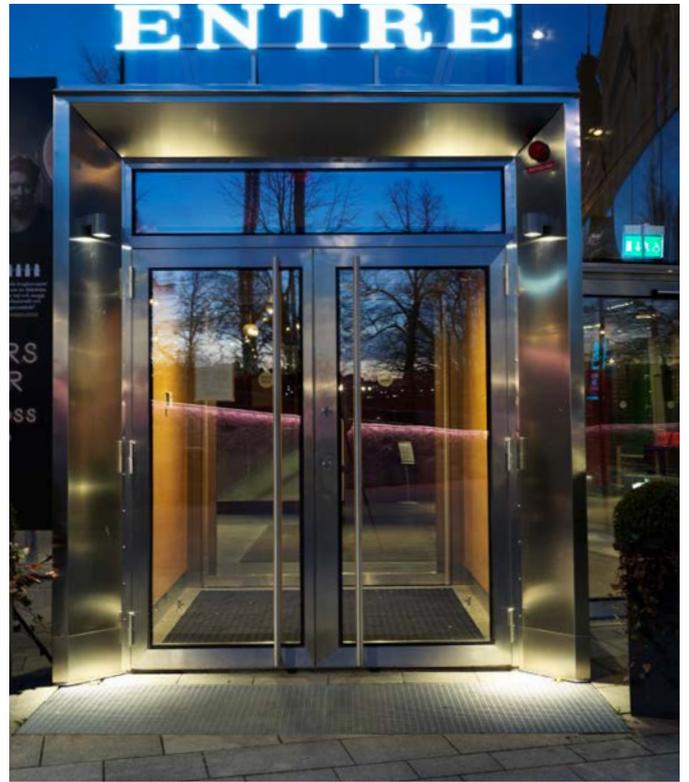
## **Entrance grating**

*We make entrance grating for anywhere from large shopping centres to small properties. In our large stock range, we have entrance gratings in different versions with varying properties and functions. Everything from decorative entrance gratings to more functional ones with scraper strip, or serrated versions for extra anti-slip protection. We also stock kerb angle frames for all heights of grating.*

### **Ready-made or made-to-measure?**

We stock the most commonly used entrance grating formats, which means they are available for immediate delivery, seamless project planning and handling. We also offer to manufacture entrance grating to your dimensions and requirements.

Need advice? Please call us.



## **Full-size grating**

*We make full-size pressure-welded gratings. The gratings are 1000 mm wide and are available in lengths of 3000 mm and 6000 mm with varying mesh widths and load bearing bar heights. Full-size gratings are supplied in the hot-dip galvanised version.*

### **Ready-made or made-to-measure?**

We stock the most commonly used full-size formats, which means that they are available for immediate delivery.



## Coarse-mesh grating

Gratings with very large mesh widths are best in environments that require both safety and a decorative effect. The commonest applications are protective grids, gates, anti-burglary guards, fences, false ceilings, barriers, espaliers and retail display racks.

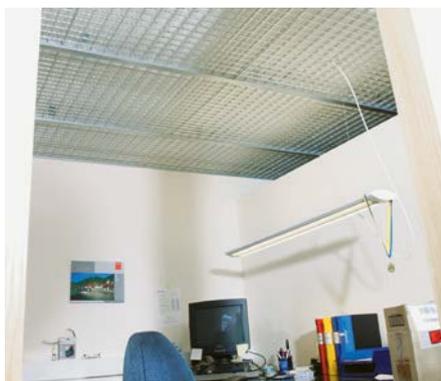
### Types and versions

The coarse mesh grating is available in pressure welded grating or A-type grating. The pressure welded grating comes in three different mesh widths (68x50 mm, 66x75 mm, 100x100 mm).

The A-type grating is available to order in mesh widths in multiples of 11 mm to your requirements.

Read more about A-type grating on the next page.

The gratings are supplied hot dip galvanised as standard, but can also be supplied powder coated.



## Eco-grating

Our most environmentally sound grating, adapted for environments where corrosion is not a problem. The Eco-grating is a great option for covering large outdoor surfaces. This grating is manufactured energy-efficiently, and has a thinner zinc layer than other types of grating, for reduced environmental impact.



### Environmentally friendly and reliable

Eco-grating has the same bearing capacity, durability and strength as pressure welded grating. Unlike pressure welded grating, however, the steel in the eco-grating is hot-dip galvanized right from production of the load bearing bars and cross bars.

### Fast delivery in ready-made formats

The Eco-grating is available in four ready-made stock formats. The ready-made formats are 1000 mm wide and are available in lengths of 700 mm, 900 mm, 1000 mm and 1200 mm with a mesh width of 34x75 mm. We can also make Eco-grating to your requirements. Call us for more information.



# A-type grating

*A-type grating is made with flat steel in both directions and is constructed in exactly the same way today as when we started manufacturing it 50 years ago. The A-type grating has excellent load bearing capacity and can be used for everything from vehicular and pedestrian traffic to entrance grating.*

## Types and versions

A-type grating is manufactured as standard with load bearing heights of between 20 and 60 mm, with mesh widths of 22x22 mm or 33x11 mm. We keep the standard format as stock items and can also custom-manufacture mesh widths in any multiple of 11 mm to your requirements.

## Ready-made or made-to-measure?

We stock the most commonly used formats, which means they are available for immediate delivery, seamless project planning and handling.

### Flexible design

*A-type grating is available with the load bearing and cross bars in the same dimensions.*

*A-type grating can also be supplied with smaller dimensions in the cross bars and reduced load bearing capacity in the load bearing bar direction.*

*We supply A-type grating in your choice of mesh width, with only a few limitations.*

*A-type grating can also be supplied with angled cross bars.*



## Heavy-duty A-type grating

*A heavy-duty grating for environments where extreme loads are a daily event and where liquids, dirt and the like need to flow through the surface. The heavy-duty A-type grating is typically used in heavy industry: the vehicle industry, heavy mining industry, the paper industry etc.*

## Custom-made to your requirements

The heavy-duty A-type grating is made to order based on your requirements and preferences. Choose a suitable load bearing bar height and match the dimension of the cross bars to the load and traffic flow direction.

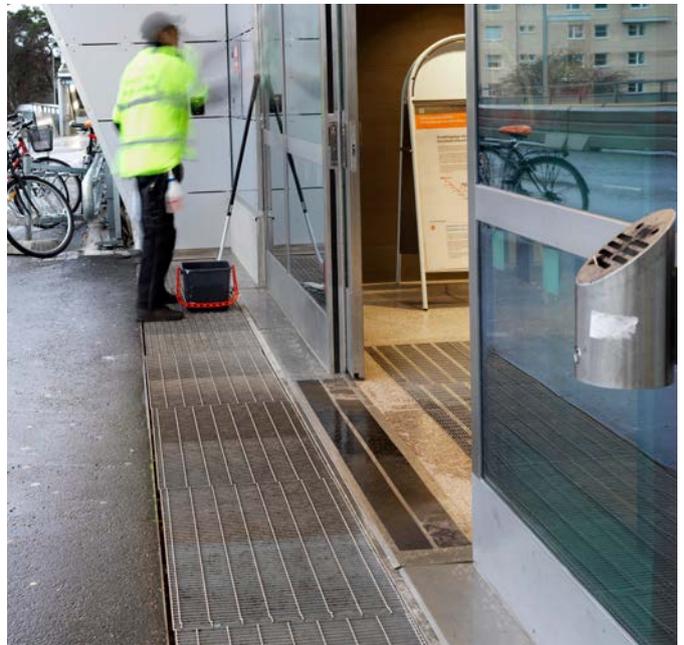
Call us if you need help finding the right A-type grating.



## ***Stainless steel grating***

*Our stainless steel grating is typically used in industrial settings requiring more than the standard corrosion protection. This grating can also be used outside entrances with high aesthetic requirements. It is manufactured in the same way as other gratings, but using material grades EN 1.4301 or EN 1.4420.*

The stainless steel gratings are non-stock items and are custom-made to your dimensions, specifications and preferences. They are available as pressure-welded grating or A-type grating and are supplied as standard with a pickled finish.

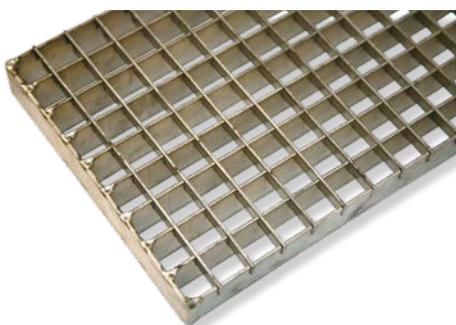


## ***Aluminium grating***

*With its low weight, aluminium grating is ideal as floor grating in professional kitchens for example. This is manufactured like A-type grating, but the material grade is EN AW 5764.*

The aluminium grating is stable, easy to handle and is available in different heights and mesh widths. The aluminium grating is manufactured as standard with an edge bar and with mesh dimensions of 22x22 mm or 33x11 mm.

The aluminium gratings are non-stock items and are custom-made to your dimensions, specifications and preferences.



# Project planning

We will be pleased to answer any queries you might have concerning dimensioning, drawing and project planning involving our different grating products. In the following, we have compiled some information that may be useful to bear in mind when placing your order. For tolerances and detailed tables, please call us or consult our website.

## Factors to bear in mind during your project planning

To find the right solution in our range of gratings products, you need to know the specific requirements at your end. One easy way to work out what you need is to answer the following questions:

- What will the grating need to be dimensioned for? Pedestrian or vehicular traffic?
- In what environment will the grating be placed? Indoors or outdoors?
- How open should the mesh be for the site where the grating will be in use?
- Will the grating be installed in an environment requiring extra anti-slip protection?
- Is the grating available as a stock item?
- Will you need kerb angle frames for the grating?

In case of any additional queries, or for assistance and advice during your project planning, please feel free to contact us.

## Factors to consider before ordering

Obviously, there's a lot to think about before you place an order. Here are some tips, and should you need more, or would like us to assist in your project planning, please don't hesitate to call us.

- Check whether the grating is available from our stock assortment.
- For the most economical alternative, adapt your layout to our grating's standard width.
- To be absolutely sure of placing the load bearing bar correctly (the grating's bearing structure), avoid gratings with square dimensions.
- Will the grating need to be anchored? Don't forget to order fixings.

Do you want to simplify assembly? Give each grating in your layout drawing a label code, e.g. a combination of numbers, then we'll ensure that the grating is labelled for you correspondingly. If you would like your grating parts labelled, please state this when placing your order.



# Kerb angle frames

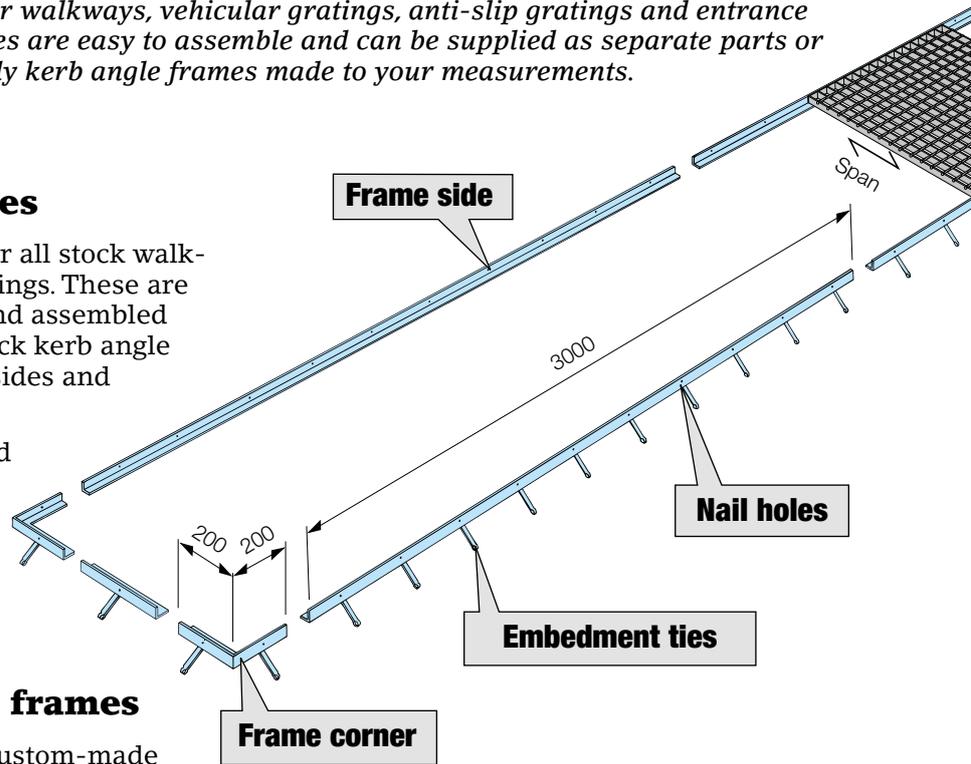


We stock ready-made kerb angle frames for walkways, vehicular gratings, anti-slip gratings and entrance gratings. The ready-made kerb angle frames are easy to assemble and can be supplied as separate parts or welded together in units. We can also supply kerb angle frames made to your measurements.

## Ready-made kerb angle frames

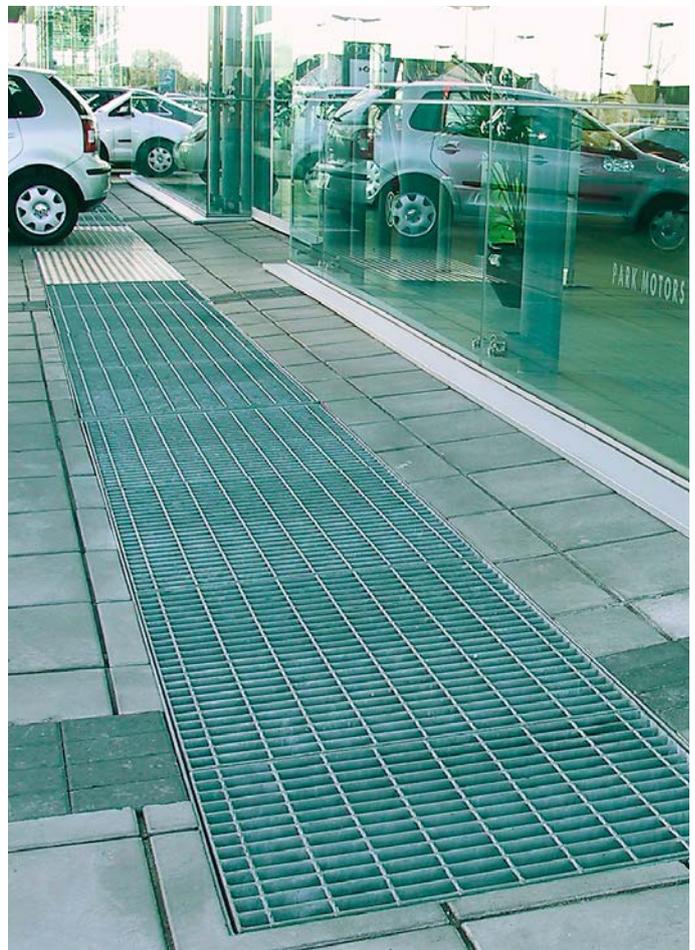
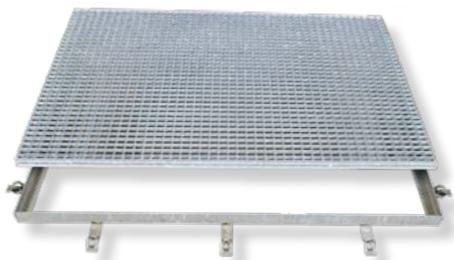
We keep ready-made kerb angle frames for all stock walkways, vehicular gratings and entrance gratings. These are available as separate parts or can be cut and assembled according to your required format. Our stock kerb angle frames are supplied with 3000 mm frame sides and 200x200 mm frame corners.

The frames are supplied hot dip galvanised with embedment ties and nail holes.



## Made-to-measure kerb angle frames

The kerb angle frames are also available custom-made to your dimensions, specifications and preferences. Besides the dimensions, you also have a range of materials to choose from. Hot dip galvanised is the most common, but we can also supply stainless steel.



# Fixings



*For best results and a secure grating installation, we recommend anchoring the grating to the supporting structure. This is best done using our matching fixings, which are standard stock items and come in a choice of either hot dip galvanised or stainless steel finish. The fixings can be ordered as complete or separate parts.*

## Complete fixings

We have many ready-made solutions for fixing your grating, from clamp solutions and J-hooks to stainless steel clips. For every type of grating, we offer a choice of several fixings.

A standard pack of complete fixings contains 100 units.

## Separate fixings

If you want to supplement a fixing or put together your own solution for fixing your grating, we also sell fixings separately. You have a choice of several top and bottom parts, joints and a wide range of suitable screws and nuts.

A standard pack contains 100 separate fixing units.



# ***Weland's extensive product range***



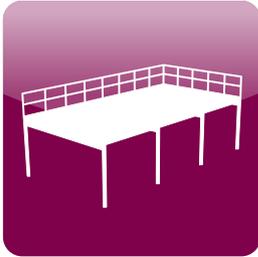
## **Grating products**

Grating | Gangways for disabled people | Fixings  
Kerb angle frames | Plank type flooring, slit plank type flooring |  
Stair treads and landings



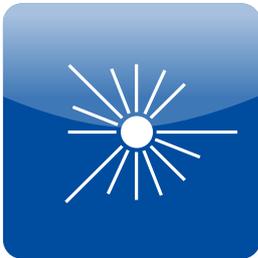
## **Staircases and railings**

Spiral staircases for evacuation and industry  
Spiral staircases for indoor applications  
Straight flight staircases | Special design and combination  
staircases | Railings



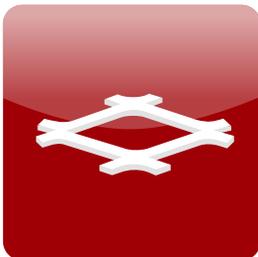
## **Mezzanines and gangways**

Mezzanines | Gangways



## **Laser cutting and sheet metal working**

Laser cutting of sheet metal and tubes | JUMBO laser cutting of tubes  
Gas/Plasma cutting | Water jet cutting | Punching,  
nibbling and panel folding | Bending | Brush deburring and  
grinding | Cutting machining | Robot welding etc.



## **Other products**

Cat ladders | Grating furniture | Tag embossing press  
Expanded metal | Cold-formed Sigma beams | Surface treatment  
Pallet racks | Cantilever racks | Pull-out units

***See more at [www.weland.se](http://www.weland.se)***

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