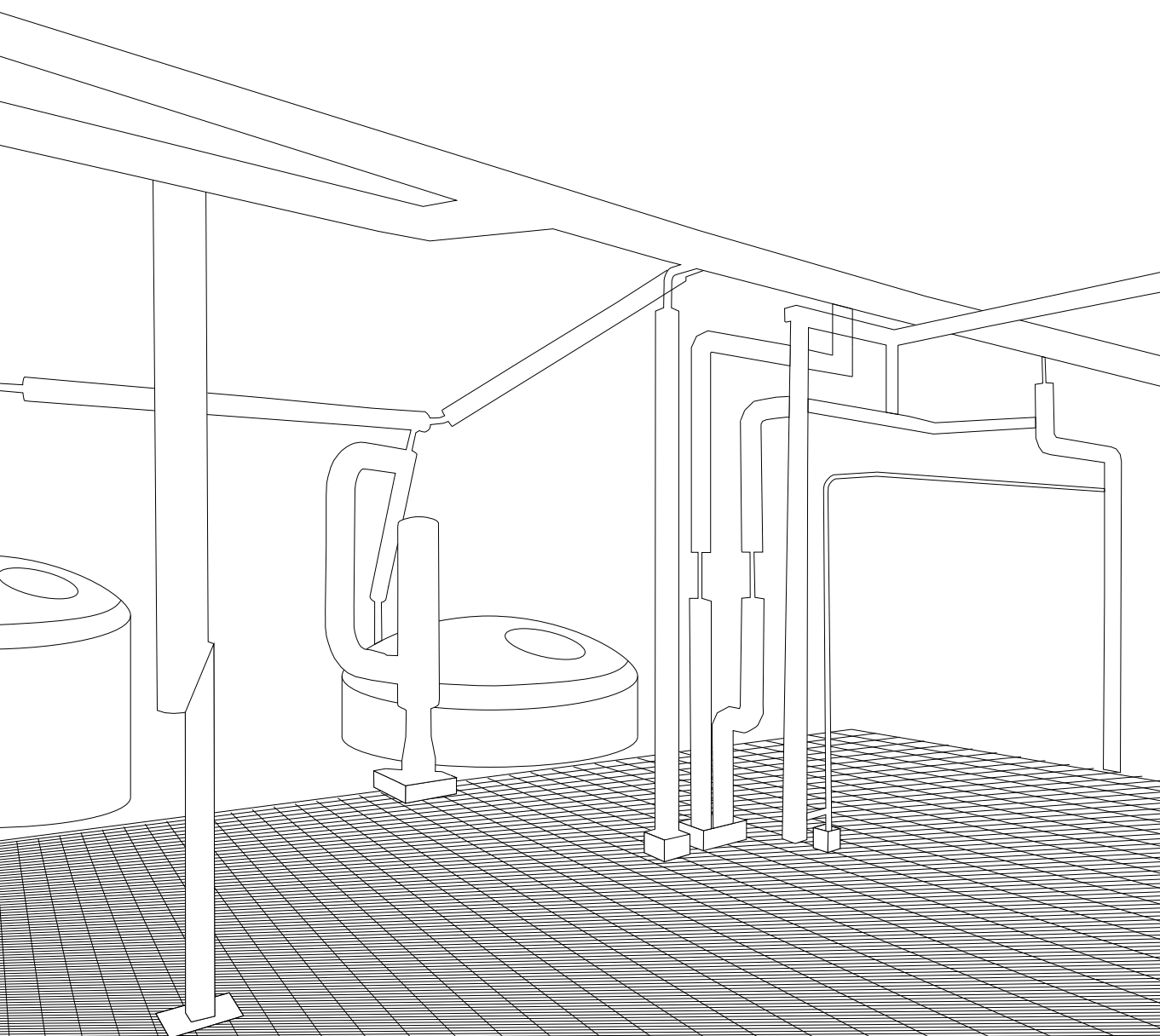


**MEISER®**



Industry





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What sets us apart

MEISER has been offering an extraordinary variety of products for industrial floor coverings for many years. These include various types of grating, profile planks, chequer plate, fall protection mats and GRP systems.

To meet the special requirements for industrial applications of floor coverings and stair treads, MEISER's strengths include quality, reliability and excellent

consulting competence.

Designed specifically for our partners is a bespoke login area where it is possible to check progress of their orders and utilise other benefits.

Installation planning

For your project, a team of over 40 well-trained and experienced employees are available at both German locations. No only do we offer a free installation planning service, but our technicians will also support you with their suggestions for optimizing the floor covering whilst recommending any additional support requirements.

Project Management and Service

Our team also includes project managers with construction site experience who will support and guide you through all stages in the execution of your project and are always available to answer your questions and requests.

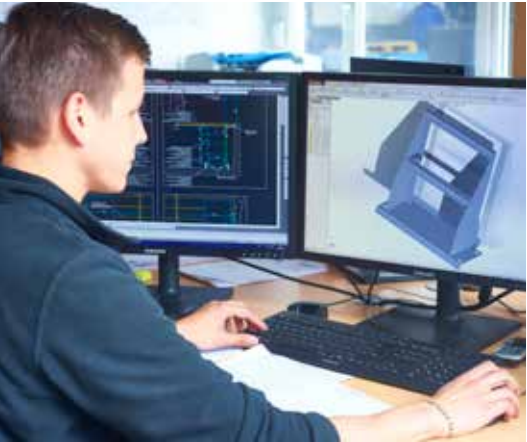
We can also offer site measurements as part of our services. In addition to this, we also offer support during the start of assembly by our specialist personnel for major projects.

Product labeling/markings

In order to ensure efficient assembly on the construction site and to simplify customs clearance of goods during transport, the importance of reliable delivery documentation has grown considerably in recent years. MEISER is your experienced and reliable partner in these processes.

The introduction of our shipping labels and the creation of packing lists for each packaging unit ensures perfect delivery documentation on one hand, on the other hand, the traceability of individual component parts on the construction site is significantly improved.

Thus, our adhesive identification labels can be printed with various information according to customer requirements and can still be read perfectly even after a prolonged transport in sea containers or a downtime on the construction site.





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GRATING







MEISER Press welded grating

MEISER press welded grating is traditionally used in many areas of industry. The continuous welding of each individual intersection point of the bearing bar and cross bar produces an extremely stable and hard-wearing structure. The cross bars normally used in the press welded grating are twisted square bars, which are resistance welded to the bearing bars.

Manufacture is carried out on production lines that have been developed by ourselves, where we can produce made-to-measure grating panels without waste and in accordance with our customer requirements. This is achieved by the fact that our machines can produce panels with cross bar lengths of up to 1250 mm, in contrast to the otherwise usual 1000 mm. For industrial platforms or catwalks, we can therefore save up to 20 % in the number of fixings required which also results

in a positive effect on the grating installation costs.

MEISER press welded grating is primarily used in the oil and gas industry, mining industry and in power stations. Where strong shearing forces occur and platform flooring has to be changed frequently, the superiority of the press welded grating comes into its own. Steel fabricators also appreciate the press welded grating, whose stability is ideally suited to the subsequent working of materials.

MEISER press welded grating panels are normally banded with a bead profile and can be produced in V2A and V4A with round or twisted square cross bars. Galvanized grating is normally produced with 5.6mm twisted square cross bars, however on request can be provided with 7 or 8 mm twisted square cross bars.

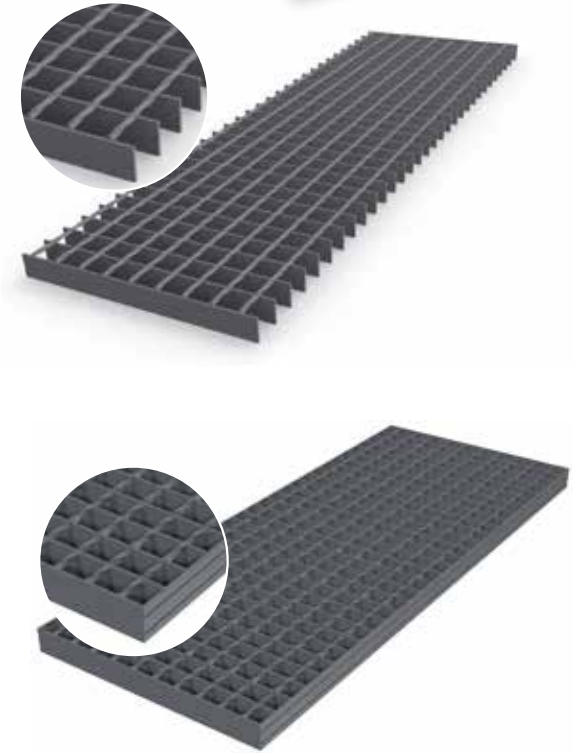
Common mesh sizes							
Bearing bar	Crossbar						
15,08	-	-	-	38,1	50,8	76,2	101,6
17,15	-	-	-	38,1	50,8	76,2	101,6
20,77	-	24,0	-	38,1	50,8	76,2	101,6*
23,69	-	24,0	-	38,1	50,8	76,2	101,6*
25,00	-	-	-	-	-	76,2	101,6
30,15	-	-	-	38,1	50,8	76,2	101,6
33,00	-	-	31,75	-	-	-	-
34,30	19,25	24,0	-	38,1	50,8	76,2	101,6
41,45	-	24,0	-	38,1	50,8	76,2	101,6
45,23	-	-	-	38,1	50,8	76,2	101,6
51,45	-	-	-	38,1	50,8	76,2	101,6
60,30	-	24,0	-	38,1	50,8	76,2	101,6
68,60	-	24,0	-	38,1	50,8	76,2	101,6

\*possible with restrictions

Standard bearing bar profiles

Bearing bar					
2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
20/2	20/3	20/4	20/5	-	
25/2	25/3	25/4	25/5	-	
30/2	30/3	30/4	30/5	-	
35/2	35/3	35/4	35/5	-	
40/2	40/3	40/4	40/5	-	
	45/3	45/4	45/5	-	
-	50/3	50/4	50/5	50/6	50/8
-	60/3	60/4	60/5	60/6	60/8
-	70/3	70/4	70/5	70/6	70/8
-	80/3	80/4	80/5	80/6	80/8
	90/3	90/4	90/5	90/6	90/8
	100/3	100/4	100/5	100/6	100/8

Press welded grating are also available in stainless steel!



Press welded grating with a bead profile





MEISER press welded grating options

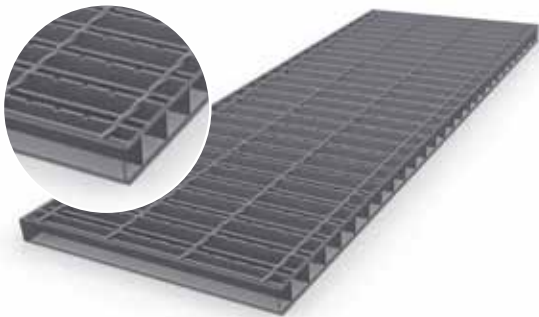
Press welded grating is available in numerous versions; these often depend on country-specific requirements. The clear mesh width often plays an important role in terms of safety. As the press welded grating cannot provide the fine mesh grid of a press locked grating owing to the manufacturing process, other versions have been developed which take into

account the relevant country safety requirements.

This guarantees that a test ball with a specific diameter cannot fall through. Special welding regulations can of course also be implemented by us on request.

MEISER Offshore-Press welded grating

This type of grating has been specially designed for use in the offshore oil and gas industry. The background to this is the specification that a test ball with a diameter of 15 mm must not fall through the grating. In order to guarantee this, an intermediate round bar is welded parallel and centrally between the bearing bars to the underside of the twisted square cross bars using the automatic resistance welding method. This provides the offshore grating with additional stability, which is very useful in the harsh conditions on offshore oil rigs.



Common mesh sizes	
Bearing Bar	Crossbar
34,30	101,6
38,28	101,6

Standard bearing profiles

Bearing Bar 3 mm	Bearing Bar 5 mm
25/3	25/5
30/3	30/5
35/3	35/5
40/3	40/5
45/3	45/5
50/3	50/5
60/3	60/5

## MEISER press welded grating with smooth round bars

The classical press welded grating is produced with twisted square bars, which offer a certain degree of slip resistance. If aesthetic aspects are important, it is also possible to use smooth round bars as cross bars. This version is possible for all common mesh spacing.

Common meshes							
Bearing bar	Crossbar						
15,08	-	-	-	38,1	50,8	76,2	101,6
17,15	-	-	-	38,1	50,8	76,2	101,6
20,77	-	24,0	-	38,1	50,8	76,2	101,6*
23,69	-	24,0	-	38,1	50,8	76,2	101,6*
25,00	-	-	-	-	-	76,2	101,6
30,15	-	-	-	38,1	50,8	76,2	101,6
33,00	-	-	31,75	-	-	-	-
34,30	19,25	24,0	-	38,1	50,8	76,2	101,6
41,45	-	24,0	-	38,1	50,8	76,2	101,6
45,23	-	-	-	38,1	50,8	76,2	101,6
51,45	-	-	-	38,1	50,8	76,2	101,6
60,30	-	24,0	-	38,1	50,8	76,2	101,6
68,60	-	24,0	-	38,1	50,8	76,2	101,6

\*possible with limitations



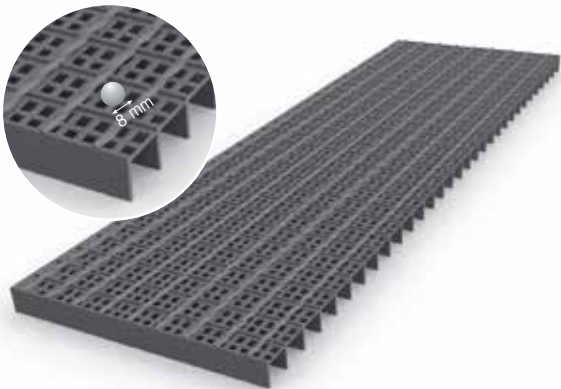
### Standard bearing bar profiles

Bearing bar 2 mm	Bearing bar 3 mm	Bearing bar 4 mm	Bearing bar 5 mm
-	20/3	-	-
25/2	25/3	25/4	25/5
30/2	30/3	30/4	30/5
35/2	35/3	35/4	35/5
40/2	40/3	40/4	40/5
45/2	45/3	45/4	45/5
-	50/3	50/4	50/5
-	60/3	60/4	60/5
-	70/3	70/4	70/5
-	-	80/4	80/5

## MEISER press welded grating with perforated sheet

If the customer requires the use of press welded grating but would nevertheless like to ensure that the grating is 8 mm ball proof, then this is the grating that should be used. By welding perforated sheets with an aperture of not more than 8 mm between the bearing bars, it is possible to produce a very “close-meshed” grating.

This grating corresponds to the Spanish standard no. 486/1997 (BO 23rd April 1997, no. 97/1997).



### Standard bearing bar profiles

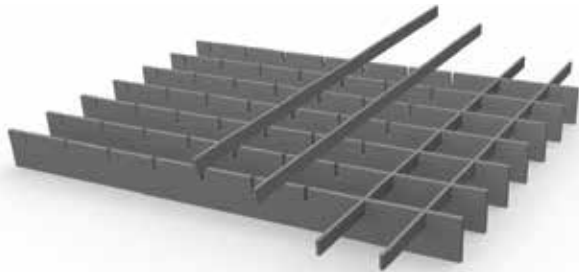
Bearing Bar 2 mm	Bearing Bar 3 mm
25/2	25/3
30/2	30/3
40/2	40/3

Common mesh sizes		
Bearing Bar	Crossbar	
34,30	38,1	50,8

MEISER press locked grating

The press locked grating is the most commonly used type of grating in many European countries today. Thanks to a production technology which differs significantly from that used for the press welded grating, and which enables a much greater variety of products, this type of grating provides for an almost unlimited number of applications. Its design allows for great flexibility regarding the mesh size and the height and thickness of the bearing bars. In combination with the variety of materials from which press locked grating can be manufactured, we can produce a grating that is exactly in line with the customer's wishes and it's intended use.

For a press locked grating, the cross bars – which are normally made from cold-rolled flat steel – are pressed into the previously punched-out bearing bars. The banding bars are designed as T-shaped or flat sections and are attached by means of automatic resistance welding. If there is an increased risk of slipping, press



locked grating can be manufactured with an anti-skid top surface where either or both the bearing bars and the corn bars have the top edges serrated.

For this, the bearing and/or cross bars are notched on the upper side. With press locked grating, the opposite end meshes are usually of equal size. But here, too, applies what has been said above: there is almost no limit to the imaginable uses and designs of press locked grating.

Press locked gratings are also available in stainless steel!

Common mesh sizes for bearing bars from 2 to 3 mm									
Bearing Bar	Crossbar								
11,1	11,1	16,65	-	22,2	33,3	44,4	49,95	66,6	99,9
21	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9
22,2	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9
33,3	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9
44,4	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9
55,5	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9
66,6	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9
99,9	11,1	16,65	21,0	22,2	33,3	44,4	49,95	66,6	99,9

Common mesh sizes for bearing bars from 4 to 5 mm							
Bearing Bar	Crossbar						
21	16,65	22,2	33,3	44,4	50	66,6	99,9
25	16,65	22,2	33,3	44,4	50	66,6	99,9
33,3	16,65	22,2	33,3	44,4	50	66,6	99,9
50	16,65	22,2	33,3	44,4	50	66,6	99,9
66,6	16,65	22,2	33,3	44,4	50	66,6	99,9
99,9	16,65	22,2	33,3	44,4	50	66,6	99,9

Bearing Bar 2 mm	Bearing Bar 3 mm	Bearing Bar 4 mm	Bearing Bar 5 mm
20/2	20/3	-	-
25/2	25/3	25/4	25/5
30/2	30/3	30/4	30/5
35/2	35/3	35/4	35/5
40/2	40/3	40/4	40/5
45/2	45/3	45/4	45/5
50/2	50/3	50/4	50/5
-	60/3	60/4	60/5
-	70/3	70/4	70/5
-	80/3	80/4	80/5
-	90/3	90/4	90/5
-	100/3	100/4	100/5
-	-	-	110/5
-	-	-	120/5
-	-	-	130/5
-	-	-	140/5
-	-	-	150/5
-	-	-	160/5
-	-	-	170/5

For special requests we are always at your disposal!

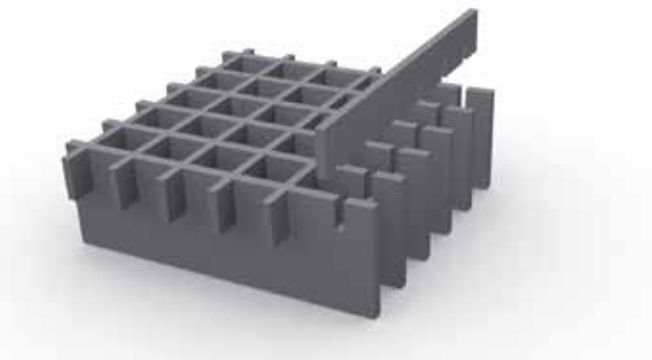


## Heavy duty grating

From the name you can guess the intended application of the MEISER heavy duty grating. This is press locked grating with particularly deep and/or thick bearing bars. The dimensions of the cross bar are adapted accordingly. Counter gear teeth during the pressing process gives the MEISER heavy duty grating additional stability, so that surface loads of more than 50 tonnes and wheel loads of 10 tonnes can be withstood without difficulty.

We adapt the exact design from case to case to the width between supports and the intended use.

Common mesh sizes			
Bearing Bar	Crossbar		
25	50	75	100
50	50	75	100
75	50	75	100
100	50	75	100



### Standard bearing bar profiles

Bearing bar 8 mm	Bearing bar 10 mm	Bearing bar 12 mm
80/8	80/10	-
90/8	90/10	-
100/8	100/10	100/12
110/8	110/10	110/12
120/8	120/10	120/12
130/8	130/10	130/12
140/8	140/10	140/12
150/8	150/10	150/12
-	-	160/12
-	-	170/12
-	-	180/12
-	-	190/12
-	-	200/12



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MEISER PLATED GRATING



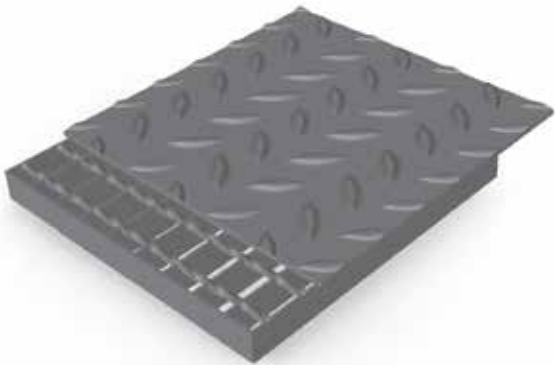
Grating with welded-on chequered plate.  
(MEISER Plated grating)

MEISER Plated grating combine the different advantages of a chequered plate with those of a grating. The closed surface of a chequered plate is supplemented by the high stability of a grating, for example to make a drivable surface. This combination creates a highly durable product.

The load-bearing capacity of MEISER Plated grating can be individually adapted and optimised to the requirements of the respective construction project.

In addition, we would be pleased to test the product tailored to your needs together with our in-house structural engineer during an impact test and prepare the corresponding documentation.

This also applies to fixing systems that can be provided for the respective applications.

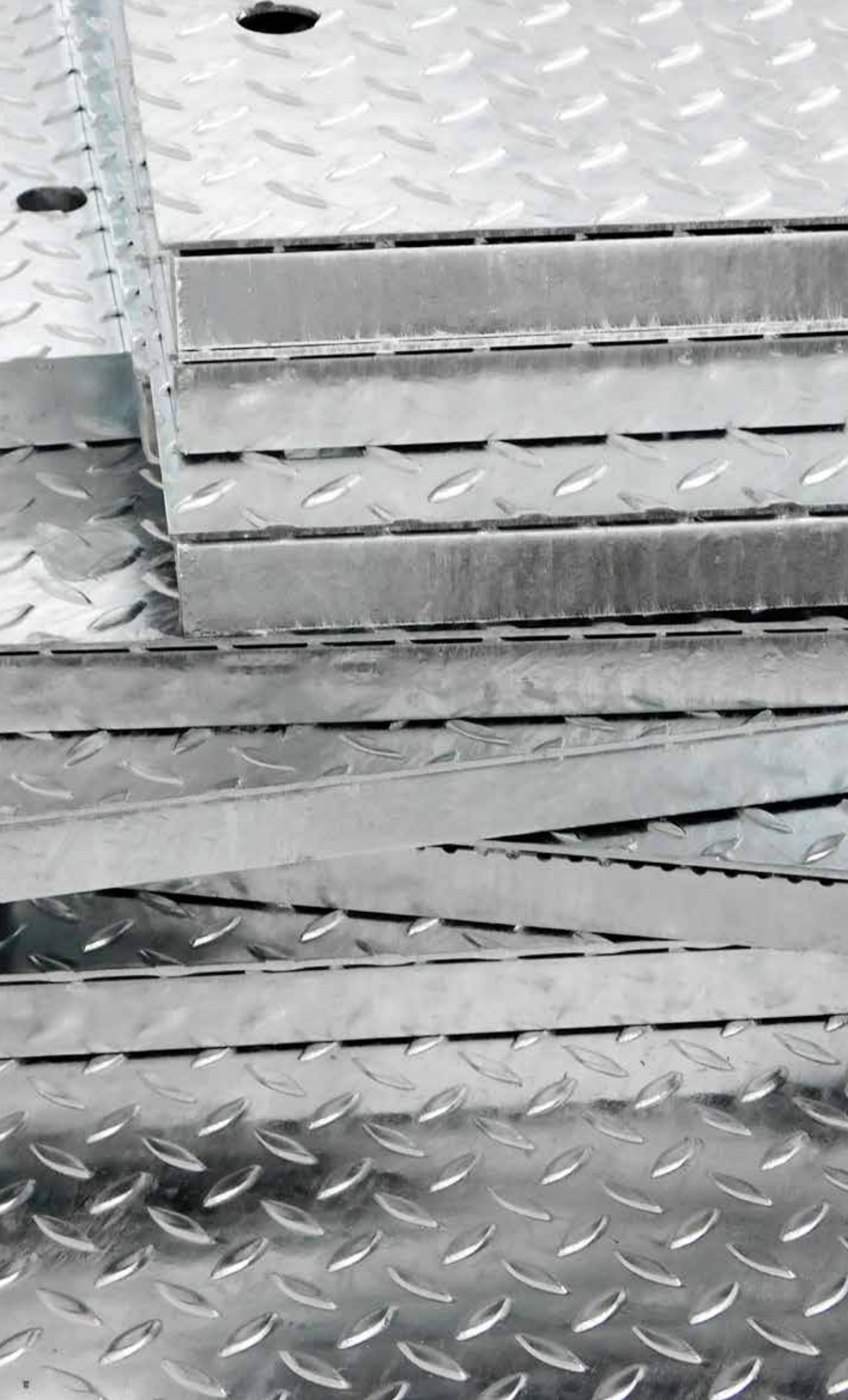


Preferred mesh sizes for MEISER Plated Grating							
Bearing bar	Crossbar						
34,30	-	-	-	38,1	50,8	76,2	101,6
33,30	-	-	-	33,3		66,6	99,9
44,40	-		-	33,3		66,6	99,9
66,60	-		-	33,3		66,6	99,9

\*other combinations possible on request

Preferred chequer plate dimensions			
3 / 5	4 / 6	5 / 7	6 / 8





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PROFILE PLANKS & CHEQUER PLATE





## MEISER profile planking

MEISER profile planking is an alternative to standard MEISER grating, especially when large span widths have to be bridged or a more closed surface is required. The special embossing and perforation of the surface ensure very high levels of slip resistance. Everywhere in industry where work is carried out with slip-enhancing substances, profile planking is a good choice.

We have over 25 different surfaces in our product portfolio, the Drainstep RH3 and Steplarm G shown in this flyer are only extracts from our product range. Further surfaces for special applications can be found in our profile planking brochure.

The possibility of producing elements of up to a length of 8,00 metres ensures fast installation, which is further accelerated with innovative fixing clips that we have developed ourselves. For indoor applications it is also possible to use profile planking consisting of pre-galvanised steel strip. This results in a significant cost advantage.

One special field is flame-retardant profile planking. This version has been tested and certified by the MFPA (Material Research and Testing Institute) and is suitable, for example, as a transformer tray covering.





## Drainstep RH3

MEISER profile planking Drainstep RH3 is a grating that has been further developed in 2013. Its characteristics make it unique in the MEISER range of profile planking.

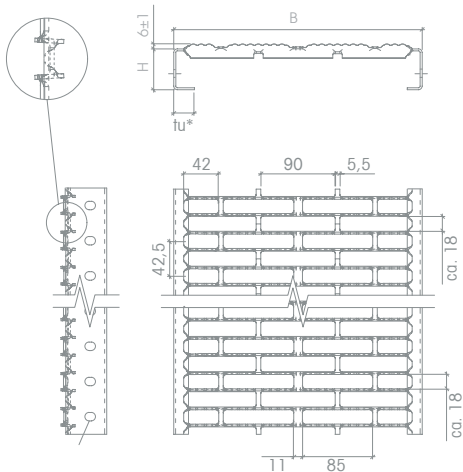
The 70% free cross-section ensures a maximum drainage effect. DRAINSTEP RH3 was developed in accordance with EN ISO 14122-2 and ensures that a ball with Ø 20mm does not fall through. The steeply positioned ridges provide excellent transverse rigidity for this profile planking.



### Dimensions

Material	Sheet thickness	AS Class
Raw / hot-dip galvanised steel [DD11]	2,0 / 2,5	R11
Sendzimir galvanised steel [DX51]	2,0 / 2,5	R11
Preferred widths	200 / 250 / 300 / 312 / 324 / 333	
Preferred heights	40 - 150 mm, other heights on request	
Length	up to max. 8.000 mm	
Length divider	42,5 mm	

Special sizes or special materials on request. All dimensions in mm.

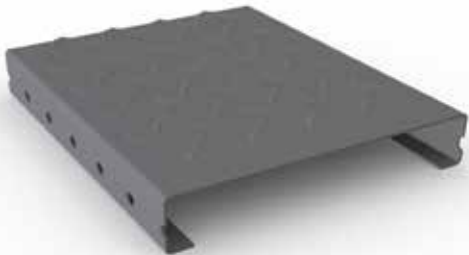


LL 10.2 x 13 turned 90° on opposite side



Steplarm G

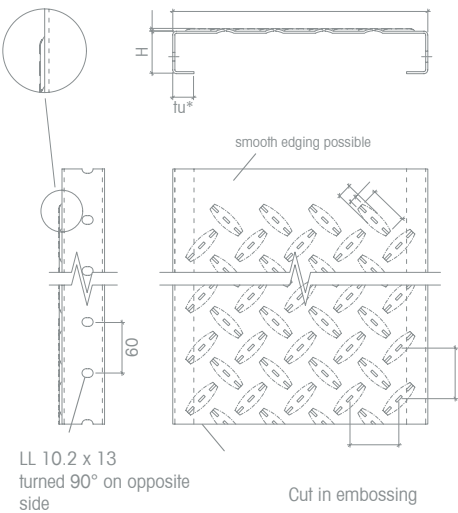
The surface structure is comparable with chequered plate and can be seen as an attractive alternative to it, but with higher load capacity at larger spans. It is a closed grating which proves very effective in public areas with pedestrian traffic and in commercial use.



Dimensions

Material	Sheet thickness	AS Class
Raw / hot-dip galvanised steel [DD11]	2,0 / 2,5 / 3,0	R10
Sendzimir galvanised steel [DX51]	2,0 / 2,5 / 3,0	R10
Aluminium [AlMg3]	2,5 / 3,0	-
Stainless steel [1.4301]	2,0	-
Preferred widths	200 / 240 / 270 / 298 variabel	
Preferred heights	50 / 75 / 100 other heights on request	
Lengths	max. 8.000 mm	
Length divider	60	

Special sizes or special materials on request. Available dimensions according to the stock program. All dimensions in mm.





MEISER chequer plate

MEISER also offers chequer plate as a conventional closed cover for industrial floor applications. Depending on the requirements of our customers, the chequer plate can be cut, perforated, lowered and edged as well as supplied with a surface finish. The advantages of chequer plate as a floor covering is the low depth height and the high acceptance of this product in various application areas.

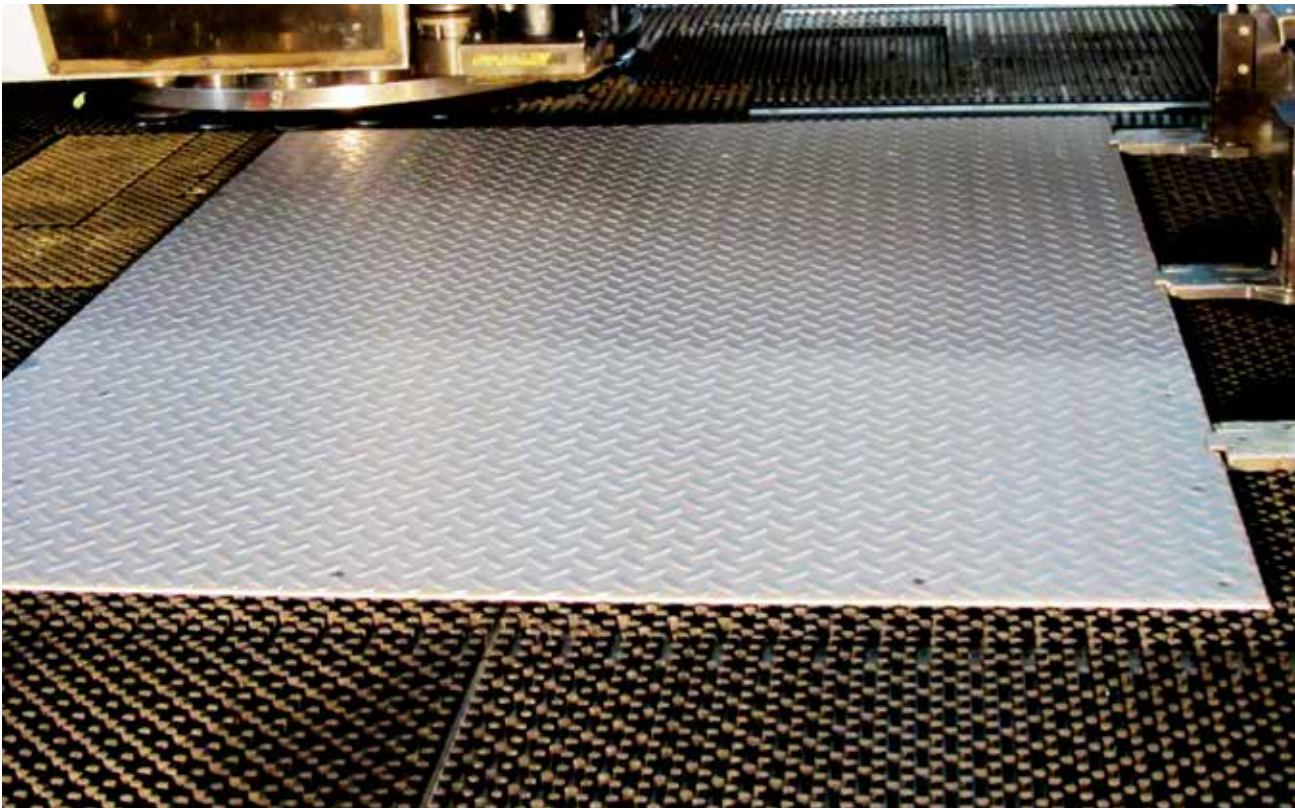
The disadvantage of the relatively low load-bearing capacity can be compensated by structural reinforcements or the use of MEISER Plated grating.

Material
Raw / hot-dip galvanised steel
Aluminium (AlMg <sup>3</sup> )
Stainless steel (1.4301)

Common material strengths
3/5, 5/7, 6/8, 8/10, 10/12
other dimensions on request

Your advantages

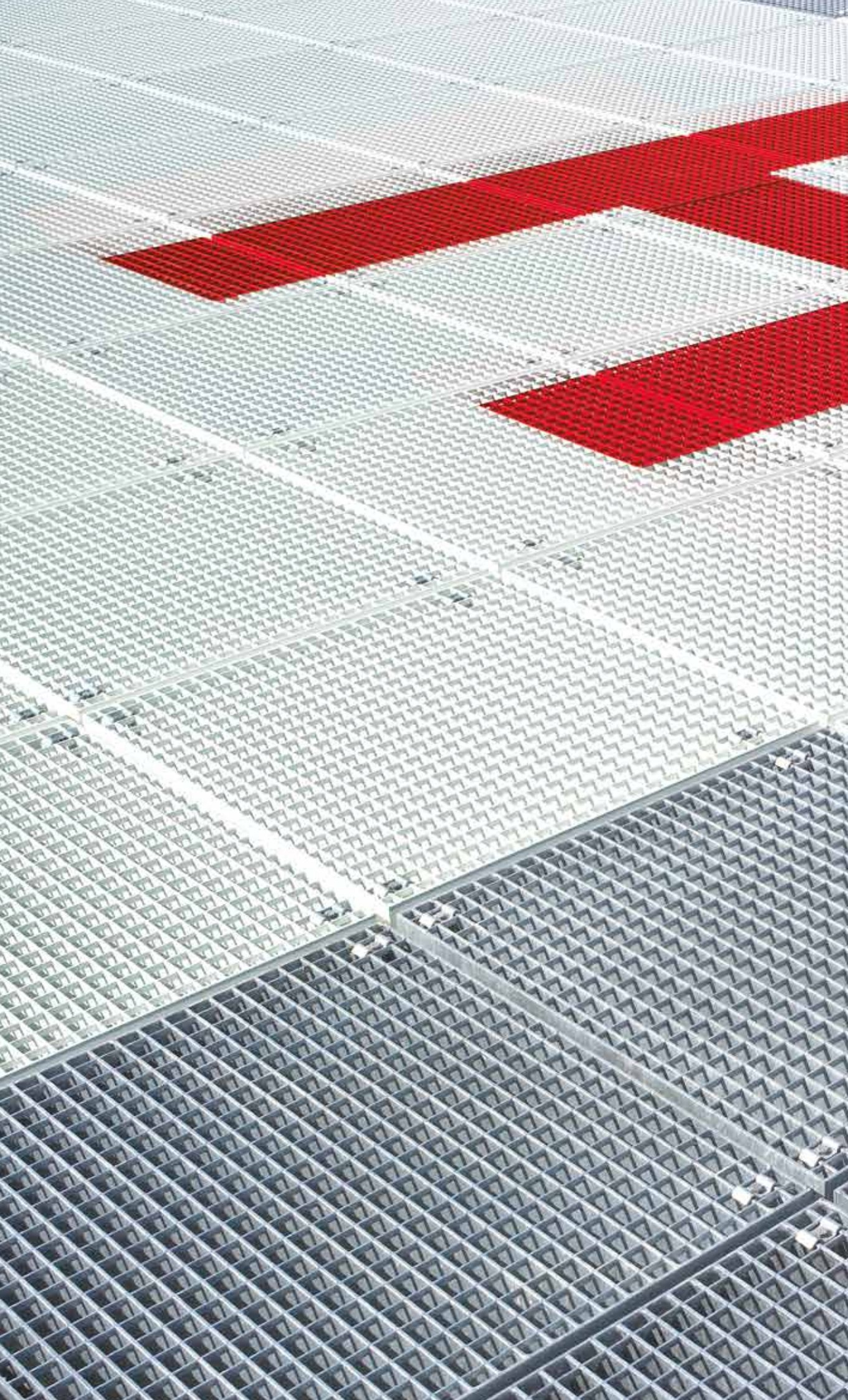
- We manufacture for you individually and make made to measure panels to you desired shape.
- On request we create the installation plans
- Sizing and positioning according to your specifications
- We make all the necessary preparations for fastening, e.g. countersunk holes
- Production of bent or welded-on kick plates as well as butt straps / reinforcement is possible
- We stock sheets of standard industry dimensions thus guaranteeing a short delivery time
- Quality assurance is a fundamental principle for us
- MEISER chequer plates guarantee easy installation and assembly
- Good trafficability with pallet trucks or small sliding carriages



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FIXING OPTIONS







Fixing systems

MEISER grating fixing clips are an important part of our service. The grating can only fulfil its function properly if it is correctly attached, to its substructure as otherwise accidents can quickly happen.

MEISER has the proper fixing clip for every application, from the simple standard clamp to the customised individual solution. MEISER produces many clamps itself,

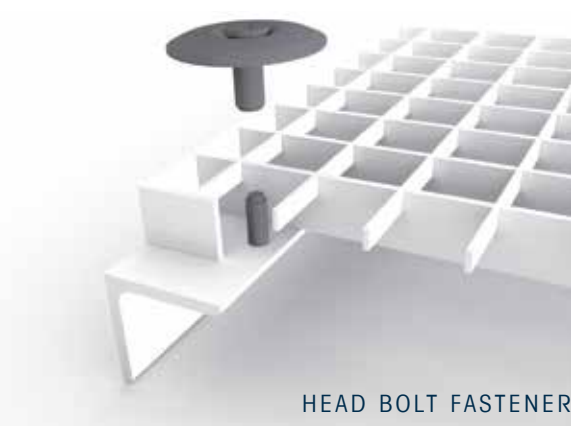
but also works together with well-known fastening specialists. Together with HILTI, the XMGR clamp has been developed, which is resistant to vibrations and offers enormous installation advantages.

On the following pages we show you the most common fixing clips, which in most cases represent a good and low-cost solution.

Head bolt fastener

Consisting of fired stud and top clip; for highly corrosive environments (e.g. offshore), also available as X-BT.

Galvanised		V4A
Designation	mesh [mm]	mesh [mm]
X-FCM + X-M8	22 x 22 – 44 x 44	22 x 22 – 44 x 44
X-FCM + X-BT	22 x 22 – 44 x 44	22 x 22 – 44 x 44
X-GR-RU	33 x 33	–



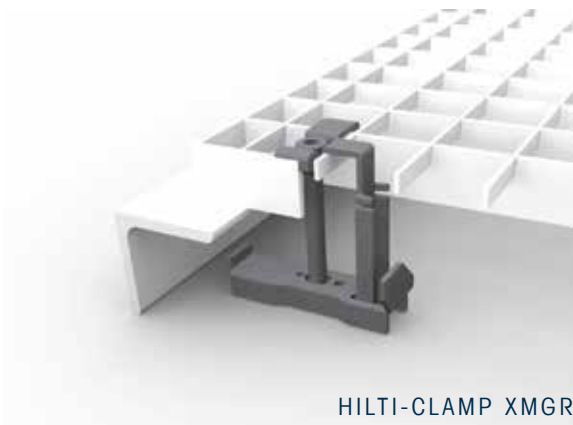
HEAD BOLT FASTENER

Hilti-clamp XMGR

Consisting of saddle top clip and lower bottom clamp connected to one another; high resistance to vibrations, easy portability by 1 person and thereby significantly shorter installation times.

Galvanised	V4A
Designation	mesh [mm]
XMGR	33 x 33 / 34 x 38 / 34 x 24

max. grating height 40mm

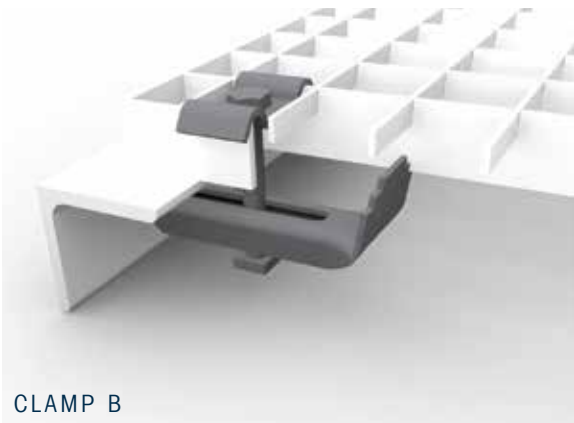


HILTI-CLAMP XMGR

Clamp B

Consisting of a saddle top clip, lower bottom clamp lower part, M8x60 hexagon bolts and M8 square nut.

Galvanised		V2A
Designation	mesh [mm]	mesh [mm]
M0531	33 x 33	33 x 33
M0531	34 x 38	34 x 38
M2231	33 x 21	33 x 21

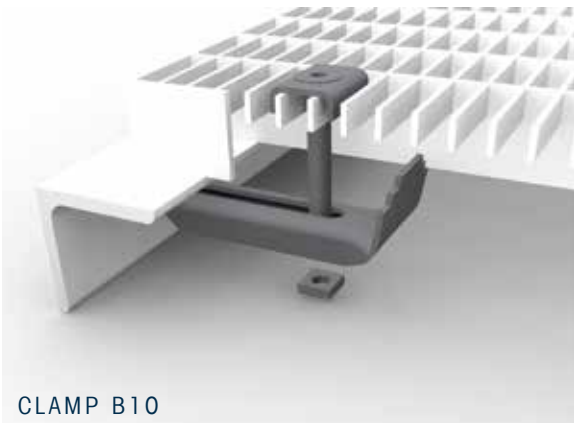


CLAMP B

Clamp B10

Consisting of a stirrup top clip, hexagon socket bolt, lower bottom clamp and nut.

Galvanised		V2A
Designation	mesh [mm]	mesh [mm]
M2331	33 x 11	33 x 11



CLAMP B10

Safety clamp A

Consisting of safety top clip, lower bottom clamp, hexagon bolt and square nut.

Galvanised		V2A
Designation	mesh [mm]	mesh [mm]
M0731	34 x 38	34 x 38



SAFETY CLAMP A

Safety clamp D

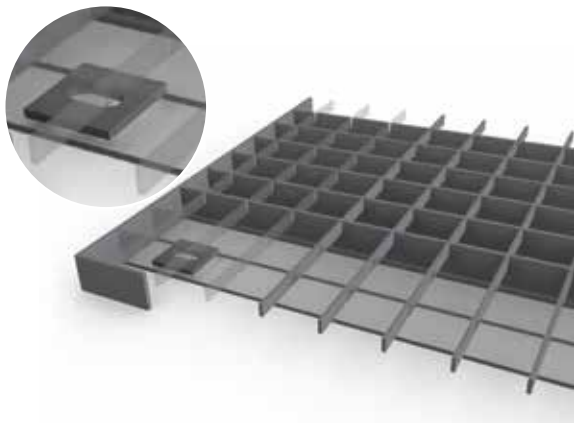
Consisting of safety top clip, lower bottom clamp, hexagon bolt and square nut.

Galvanised		V2A
Designation	mesh [mm]	mesh [mm]
M0833	34 x 38	34 x 38



Welded-in holed fixing plates

Consisting of welded-in holed plates according to customer's specifications; bolts are provided by the customer. The design and position of the welded in plate depend on the load to which the grating is subjected and the fastening possibilities available on site.

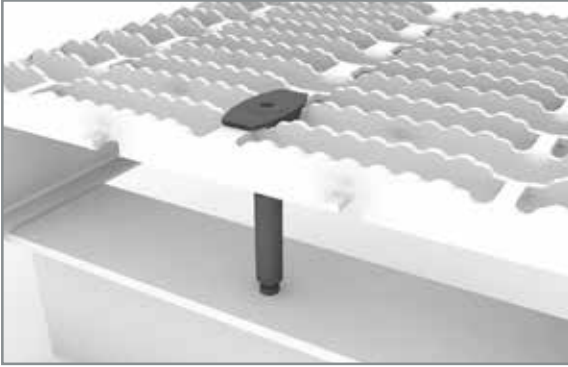


Fastening technique for Meiser Top plate

Consisting of head bolts and a flat head bolt with pressed long nut.

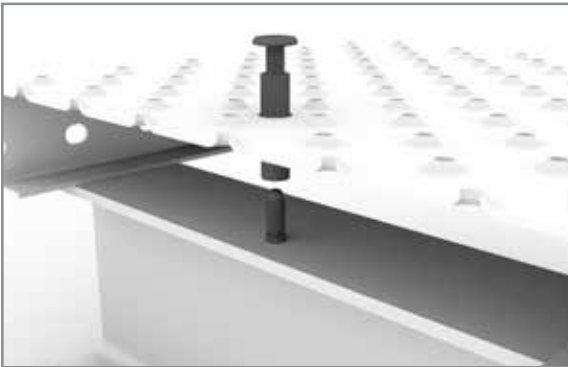






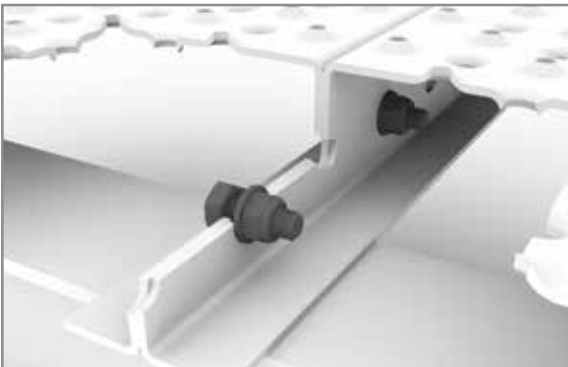
#### Fastening technique Drainstep RH3 & Stepbloc F

Consisting of fired studs, cap T03 and a countersunk bolt with pressed long nut.



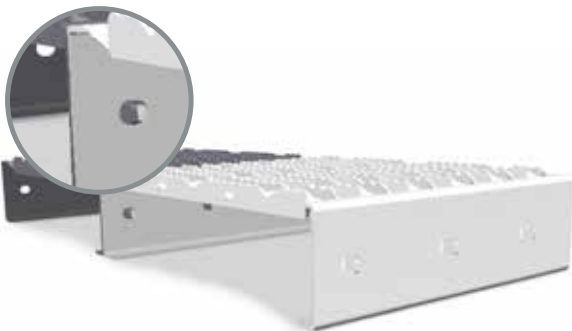
#### Fastening technique for closed and perforated surfaces

Consisting of fired studs and a flat head bolt with pressed long nut as well as a bore diameter 13 mm in the profile surface.



#### Bolted connection

Consisting of one M8 x 20 hexagon bolt with washers and self-locking nut.



#### Plug-in system

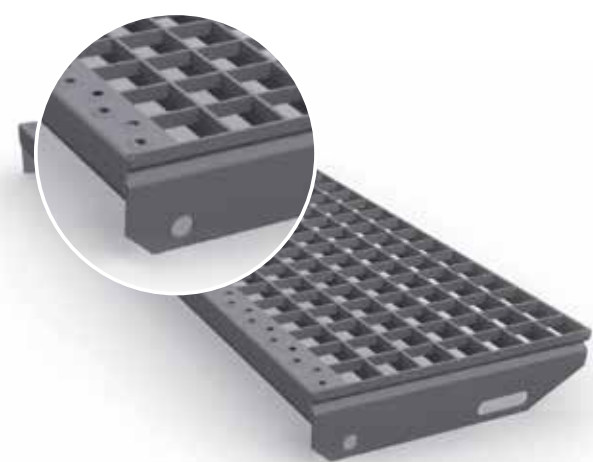
Consisting of a punched-out steel ridge which creates a connection with the opposite side perforation in the adjacent profile and thus makes it possible to compensate for the deflection of the individual profiles.

————— STAIR TREADS



Press locked grating treads

Press locked grating treads can be produced from mild steel, highgrade steel and aluminium. They are produced in accordance with the same principle as for press locked grating. It is possible to provide these stair treads with anti-skid-properties up to R12 by including special notches on the bearing bars and cross bars. Even very large tread widths can be produced by designing the bearing bars in the same way as heavy duty grating. Thus it is possible for even extreme loads to be reliably absorbed.

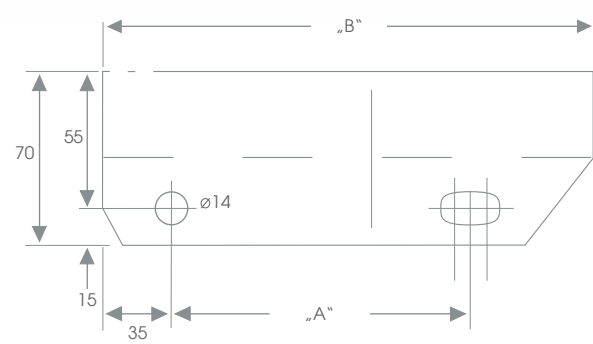


Press welded grating treads

Press welded grating treads can be produced from mild steel and high-grade steel. Here too, production is based on the process used for the manufacture of press welded grating. It is possible to provide this tread design with anti-skid-properties up to R13.



Width B Stair treads	Hole distance A
240 mm	120 mm
270 mm	150 mm
305 mm	180 mm



HOLE PATTERN



Profile plank stair treads

MEISER profile plank stair treads can be made using any profile plank. In punched surfaces, the first row of perforations is placed directly on the edge to form safety edging.

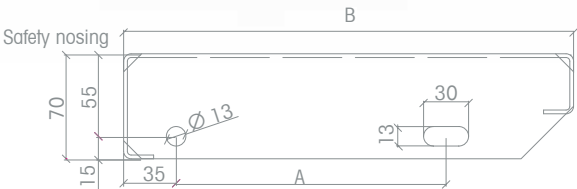
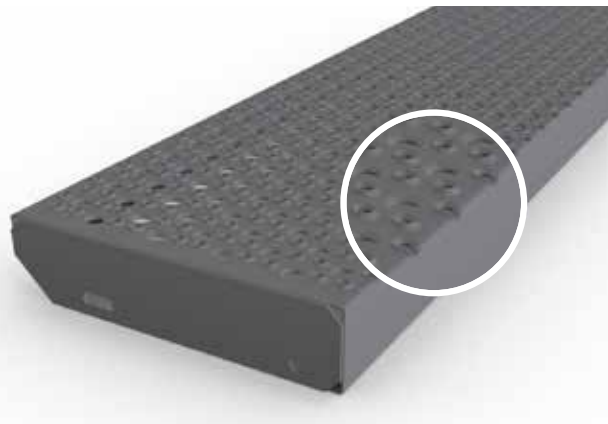
Alternatively, we can also attach a flat bar with anti-slip notches on request. The side plates are either bent or welded on and are made according to our standard drilling patterns 1 or 2.

On request we can also provide you with special drilling patterns. Important criteria for the selection of the right stair treads are the required load and the purpose of use. We will be happy to advise you on this in order to find the optimum solution for you.

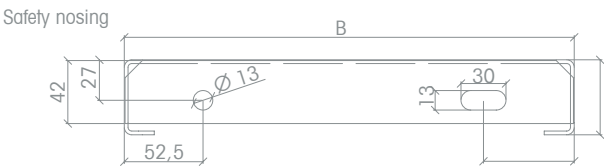
Width B Stair treads	Hole distance A
240 mm	120 mm
270 mm	150 mm
300 mm	180 mm

Pressed chequered plate stair treads

Although the lighter and therefore cheaper profile planks are becoming more and more popular for use as a closed stair tread, there is however still a demand for traditional stair treads made from chequer plate. MEISER can produce any variation for you, whether with integrated kickplate protection or side plates for bolting.



HOLE PATTERN 1



HOLE PATTERN 2



## Service

For MEISER, service means offering its customers and partners the highest possible added value by providing high-quality products at a reasonable price and on schedule.

The special attraction for us is also to solve unusual tasks. We do not want to reduce your ideas to our capabilities, but rather to expand our capabilities with new solutions. Therefore, new tasks are not only a technical challenge for us, but also an opportunity to improve and develop ourselves as a company.

## Challenge us!

### Planning/Manufacturing

Our offers to you include planning, production and the creation of installation plans, all from one source. Constant new and further development of products for a wide range of applications enable us to meet all your requirements.

Service is our top priority. This means for you:

- Advice on design, standards and regulations
- Preparation of assembly and manufacturing drawings
- Development of customer-specific special solutions

Quality assurance is a standard for us. Where required, the constructions comply with the current DIN / EN standards, the requirements of accident prevention regulations and any professional associations.

Further information on load tables and an overview of slip resistance can be found on our website.



## Contact

In order to be fully aware of your needs and wishes MEISER relies on an old but proven sales strategy: personal support. Reliable contacts who will advise you with experience and expertise, show you solutions and also stand by your side immediately if things do not go smoothly.

We believe this is the only way to ensure that your needs are met. We will not leave this path, because it is the path of quality and reliability that begins with the products and does not end with customer care.

Our team will be happy to assist you.

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