

# MEISER Rack grating

The perfect solution for your logistics





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## MEISER Shelf Grating

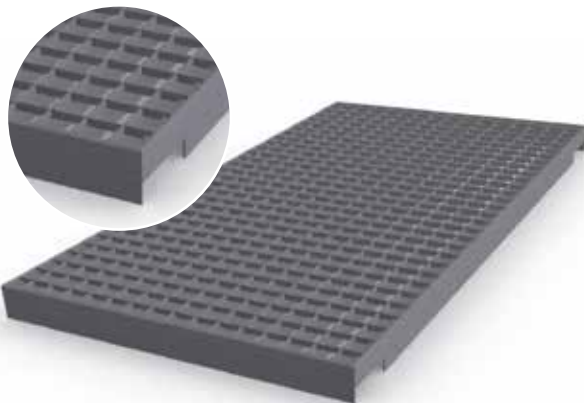
MEISER shelf grating offers decisive advantages within logistics systems compared to other shelf coverings. In addition to their durability, they are above all permeable to light and water. This is a key feature when sprinkler systems are used. The high degree of transparency of the grating means that plenty of light is able to enter, thus providing high brightness levels in the logistics system; moreover, the items stored on the shelves can be identified from below.

Ingenious detailed solutions mean that the grating is easily installed and offers the additional integrated benefits. On the following pages we present our solutions, which have been developed together with the leading suppliers of logistics systems.

### Loose-fitting designs

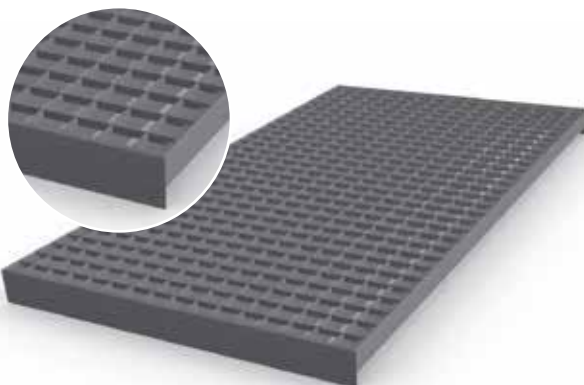
These versions of the MEISER shelf grating can be easily locked in place on the cross-members of the shelf structure. To this purpose, the T-shaped section surround, which is extended downwards, is provided with notches that are specifically adapted to the width of the cross-member.

The notches are punched up to the height of the bearing bars, so that the bearing bars are located flush on the cross-member and help to improve the statics. Further specific adjustments can be carried out, which are described below.



#### Shelf grating with notched T-shaped section banding bars

This is the standard design, which can be manufactured at low cost and which is suitable for various shelves of the same depth, but with different cross-members.



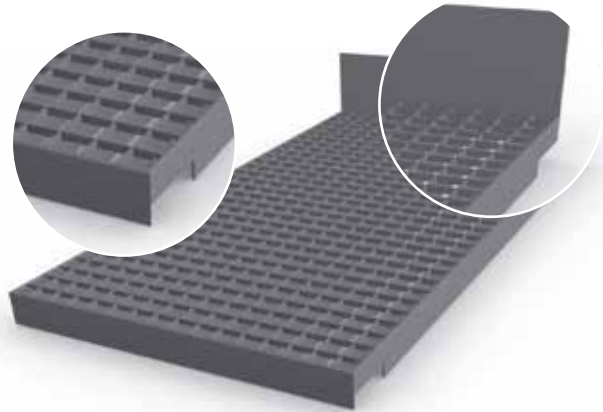
#### Shelf grating, bearing bar ends with deep T-Edging

This grating has a raised edge surround, albeit only at the ends of the bearing bars. The locking function is therefore less pronounced, but the possible applications are somewhat more flexible, as it is not necessary to use a specific cross-member width.

### Shelf grating, notched with push-through protection

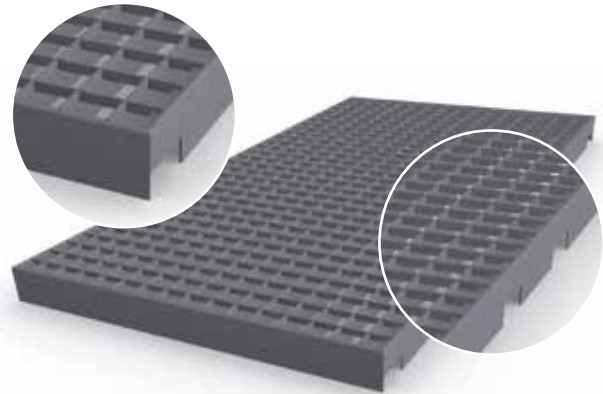
Push-through protection is an important safety element in shelf systems. If this has to be installed separately, it is associated with considerable costs.

MEISER has a shelf grating with integrated push-through protection in its range. The rear is edged with a reinforced flat bars, the height of which can be freely selected.



### Shelf grating with additional notches in the area of the rests for double shelves

For so-called double shelves, MEISER has also developed a special type of grating. Additional notches allow a continuous connection across the double shelves. This grating can also be quickly installed.

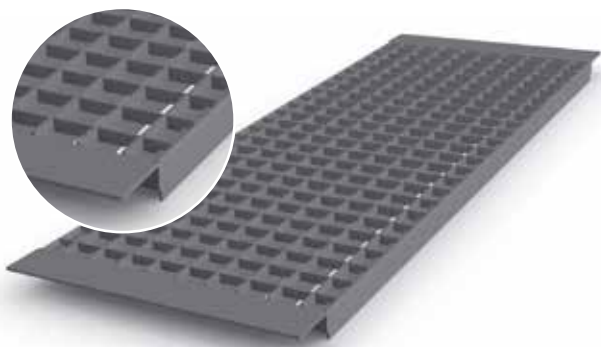




## Inserted Designs

In addition to the loose-fitting versions, MEISER has also developed this solution. Here, the ends of the bearing bars are enclosed with a Z-shaped special section that is connected to the bearing bars by means of an automatic resistance welding process. This shelf grating is also very resilient as a result.

An important advantage of the inserted shelf grating is the improved effective height of the shelf spaces. Since this shelf grating is suspended between the longitudinal girders, the insertion height of a shelf is not reduced by the grating itself.



**Shelf grating with Z-shaped angle section surround / MEISER special angle collar**

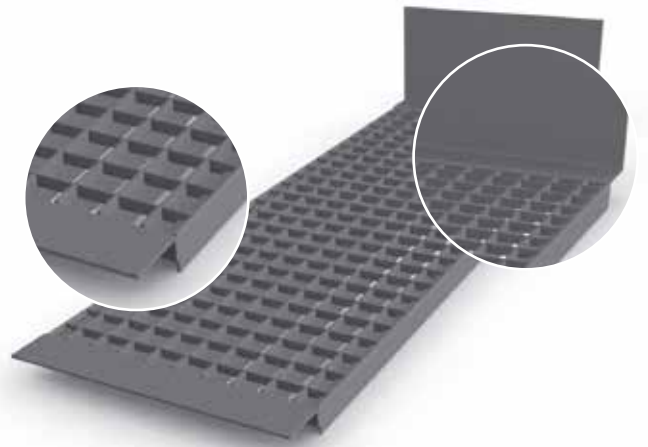
This is the most common design of the inserted shelf grating. The angle collar used is a rolled section of our own design, which is inserted into the bearing bars and additionally welded.

For an order quantity of at least 500 pieces, this grating can be supplied with pregalvanized steel (S350GD) (for indoor use only) which is available at a considerably lower price.



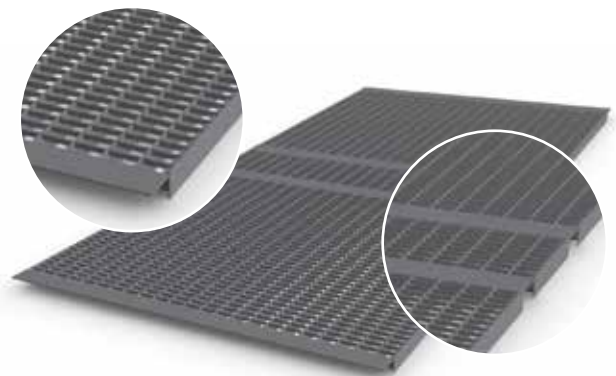
### Shelf gratings with Z-shaped angle section surround and push-through protection

The inserted shelf grating is also available with push-through protection. In this case the Z-shaped special section is supplemented by an additional section, which prevents the goods from being pushed through.



### Grating for Double Shelves

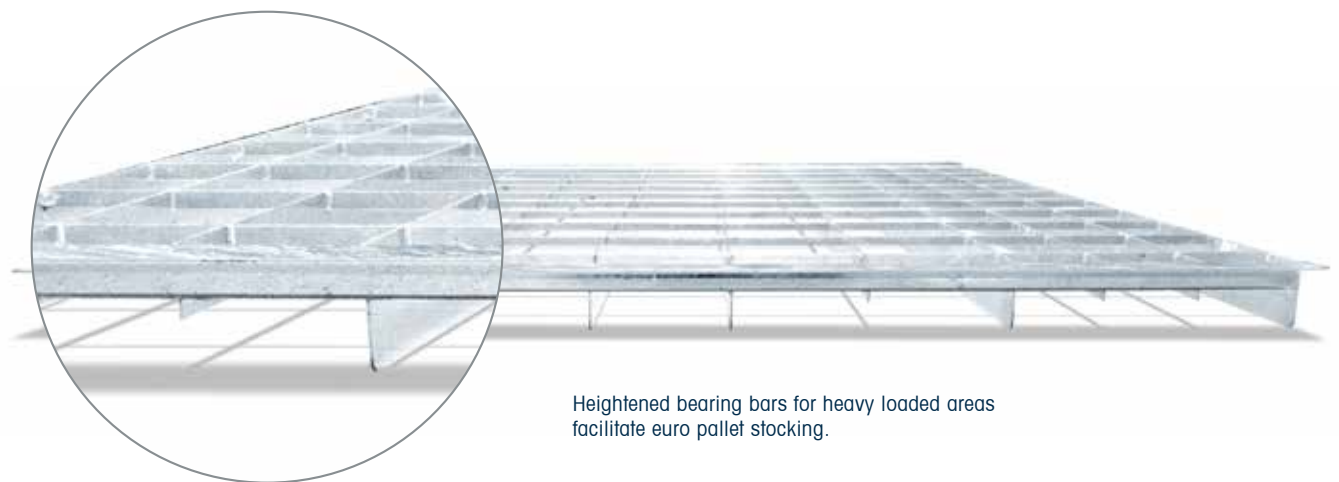
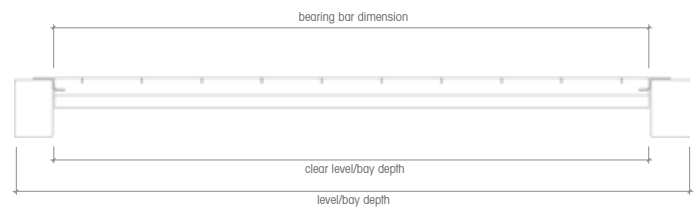
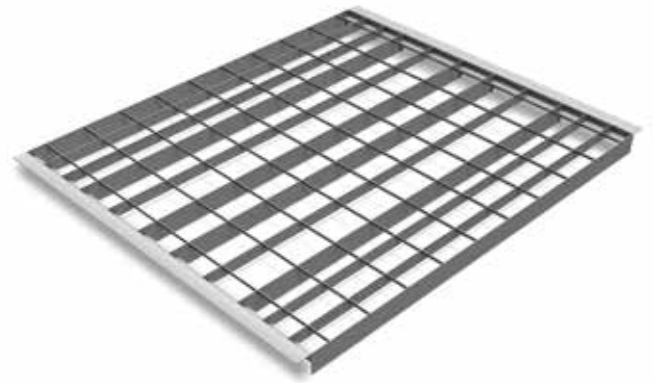
This shelf grating element consists of two grating panels which are connected by a U-shaped section in the central area of the rests to form a unit. This creates a continuous connection across the double shelves, with the full shelf height being retained.



**MEISER Modul – Strong. Light. Reliable.**

Standard gratings are usually provided with bearing bars of equal size. Storage racks though are often loaded with load carriers which are hardly moved so that some bearing bars are never strained. Due to fix dimensions and the implementation of higher and consequently more resilient bearing bars at positions where a higher payload can be expected, and lower bearing bars at less strained positions, a very light shelf grating can be realized.

Precise loading conditions and allowed payloads are already known. The modules are optimally designed for the use of euro pallets or half euro pallets, placed lengthwise or crosswise, and different, evenly distributed payloads.



Heightened bearing bars for heavy loaded areas facilitate euro pallet stocking.

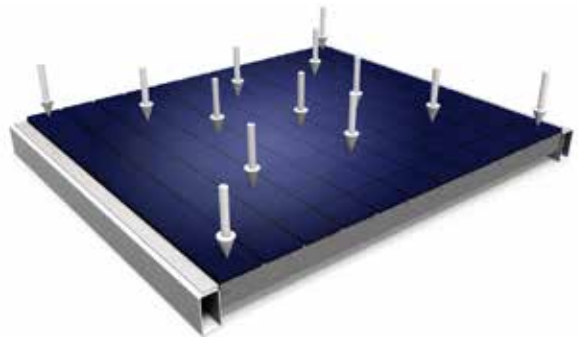


## Load table and type overview

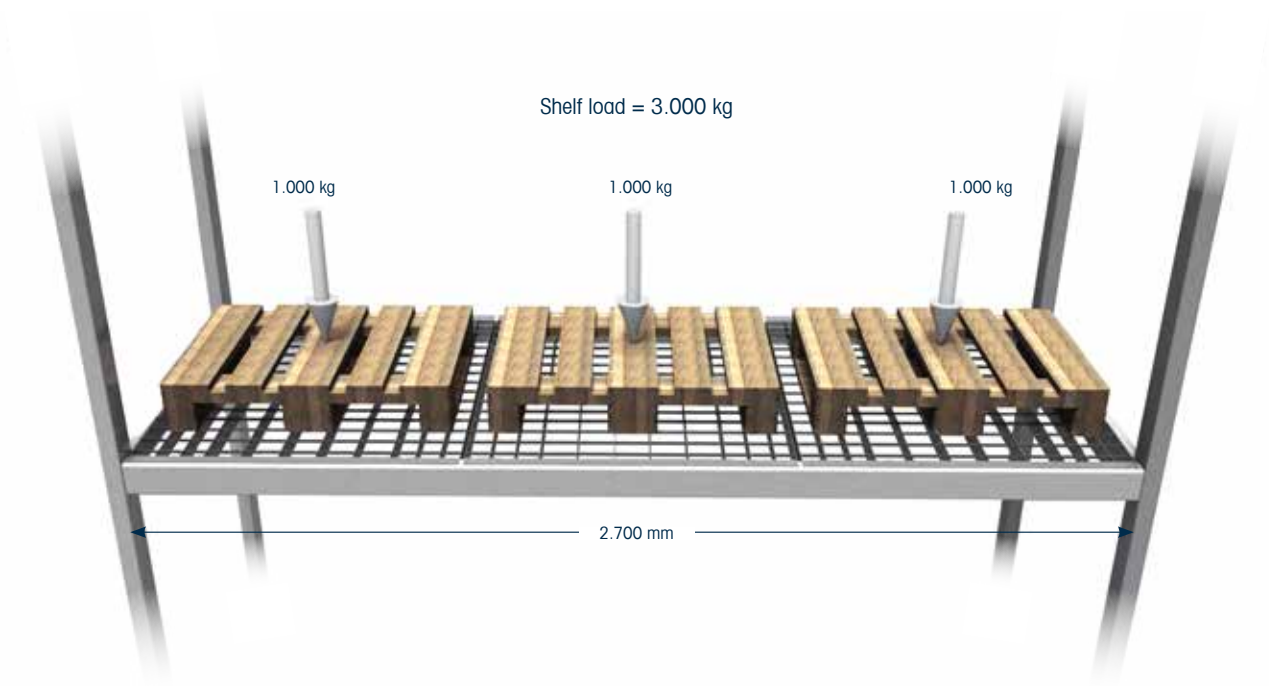
Payload (kg/grating)	Clear level/ bay depth (mm)	Width (mm)	Height (mm)	Material thickness (mm)	Mesh (mm)	
					BB	CB
1250	900 (895)	890	60	1,7	66(99)	66
	950 (945)	890	60	1,7		
	1000 (995)	890	60	1,7		
1000	900 (895)	890	60	1,5	66(99)	66
	950 (945)	890	60	1,5		
	1000 (995)	890	60	1,5		
800	900 (895)	890	55	1,5	66(99)	99
	950 (945)	890	55	1,5		
	1000 (995)	890	55	1,5		
500	900 (895)	890	50	1,5	66(99)	99
	950 (945)	890	50	1,5		
	1000 (995)	890	50	1,5		

MEISER produces 3 different grating types, each in 6 load categories. You will find the different types in the table, ordered downwards by maximum load.

The horizontal side of the Z-shaped profile is 40 mm for all grating types.



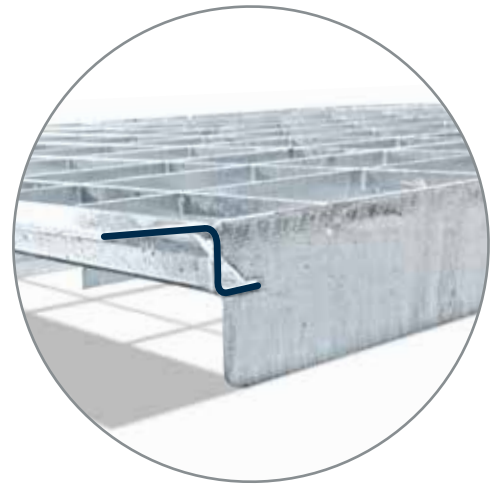
The composition of the MEISER module permits an evenly distributed payload.



Application example of 3 MEISER Modul gratings, 995 x 890 mm, hot dip galvanized, with a max. payload of 1.000 kg each.

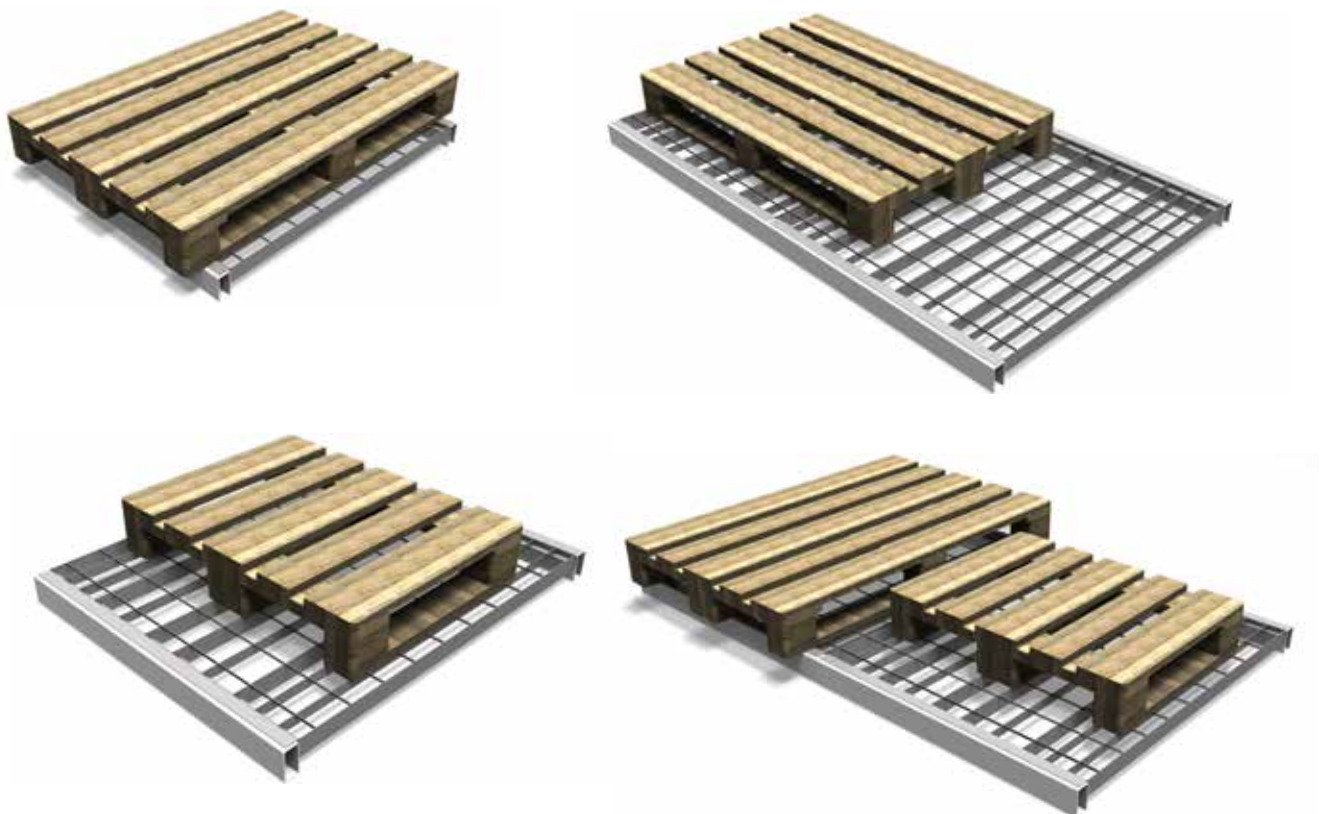
### Advantages of the MEISER Modul

- provided with a Z-profile to insert the shelf grating (overlying installation height max. 2 mm)
- Simple choice of the load category (see table)
- Current dimensions for most shelves e. g. 1800 (2 parts), 2700 (3 parts), 3600 (4 parts)
- Fast delivery for stock products (small quantities on call order within 48h, large quantities on request)
- suitable for sprinkler systems (open cross section > 90%)
- little deflection under load (deflection <  $L/200$ )  
=> in accordance to DIN EN15635
- low weight
- cost-efficient
- easily determine the maximum shelf load



With the Z-Profile it is possible to insert the shelf grating.

### Possibilities to store euro pallets and half euro pallets









Please don't hesitate to contact us with your enquiries or requests.  
We are pleased to help you!

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