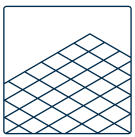


Shelf Gratings



Types of Shelf Gratings
Stock range &
Warehouse technology

05	MEISER portfolio
09	Types of Shelf Gratings
19	Stock range & Warehouse technology
25	Contact
27	MEISER Worldwide



Efficiency with vision

Even after 70 years of company history, MEISER remains true to the principles that made the company strong: working reliably, thinking long term, taking responsibility and maintaining direct contact with customers. Tradition is not about looking back, but it does form the basis for the further development that extends far beyond the company's headquarters in Saarland.

Today, around 4,000 employees work for MEISER, including more than 2,800 in Germany. The two main production sites in Saarland and Saxony form the company's industrial foundation. They are complemented by production facilities in Dubai, Hungary, France, Belgium, Egypt, Brazil, Morocco, Romania, the Czech Republic, the US, Mexico and Turkey. In addition, further branches connect us with all major markets.

This creates a combination that defines MEISER: international capability and personal support on site. Customers benefit from short distances, direct communication and an understanding of regional requirements – backed by the experience of a company that has been active in different markets for decades and has a broad market presence.

As a steel-processing company, MEISER is active in the fields of gratings, sheet metal profiles, GRP, slit strip and galvanising. Further business areas, such as road safety, expanded metal, viticulture products and mounting systems for photovoltaic installations as well as scaffolding and sliding fittings, expand the portfolio and show how versatile the company's expertise can be.



For us, an important factor in our quality is our high level of in-house value creation. With our own galvanising plants, slitting facilities and cold rolling mills, MEISER can control and coordinate all the central processes itself. This creates reliability – from planning through to the finished product. Modern production technology, state-of-the-art machinery and committed employees provide the foundation for stable processes and economical solutions.

Despite this growth, the focus on the customer remains decisive. For MEISER, progress means not only new technology or greater capacities, but, above all, better solutions developed through direct exchange. Many exceptional projects have emerged from this collaboration. They show what becomes possible when experience, proximity and trust come together.

We combine 70 years of company history with international presence and personal support. Customers can rely on this, today and in the future. MEISER – built for generations.



MEISER

Our business divisions are synonymous with leading solutions in steel processing.



From the initial concept to the finished product, we support you with our expertise and innovative solutions in steel. We manufacture, finish and deliver with clearly defined responsibilities.

We operate cost-effectively and responsibly. With strong regional roots and an international presence, we provide reliable planning for your projects – from the initial consultation through to final acceptance.



Gratings

Customised solutions for complex tasks

meiser.de/en/business-areas/gratings



Road Safety

Well-thought-out solutions for the most stringent safety requirements

meiser.de/en/business-areas/road-safety



Solar Systems

Innovative mounting technology for the energy of tomorrow

meiser.de/en/business-areas/solar-systems



Agri Solutions

Genuine expertise for growing demands

meiser.de/en/business-areas/agri-solutions



Expanded Metal

Custom-made expanded metal designs at their best

meiser.de/en/business-areas/expanded-metal



Coating

Precision coatings for reliable corrosion protection

meiser.de/en/business-areas/coating



Other Solutions

Versatile solutions for specific challenges

meiser.de/en/business-areas/other-solutions

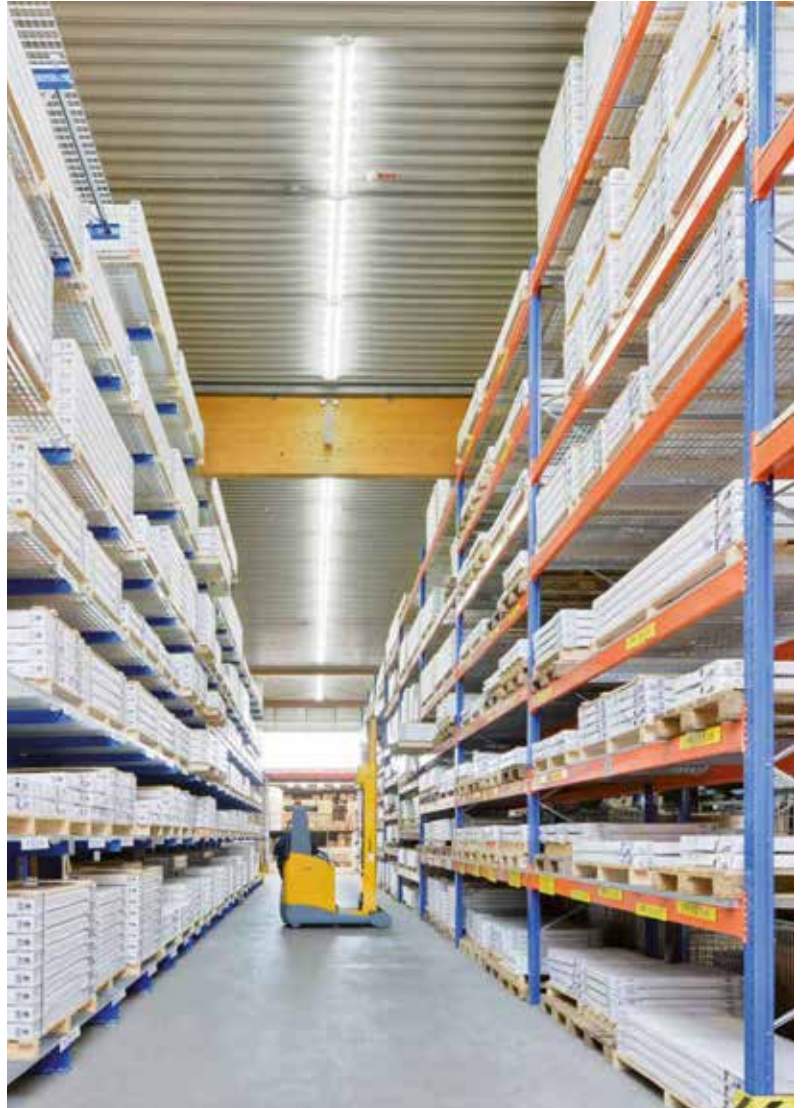


MEISER Shelf Gratings – in practice

Organised and practical storage

MEISER shelving grids offer significant advantages over other shelving surfaces in logistics systems. In addition to their durability, their light and water permeability are particularly noteworthy.

This is especially important when sprinkler systems are installed. The open design of the grating allows light to pass through, ensuring good illumination throughout the logistics system. At the same time, the layout of the racking can be clearly seen from below. Sophisticated design features simplify the installation of the gratings and offer additional, integrated benefits. On the following pages, we present our range of solutions, which have been developed in collaboration with leading logistics system manufacturers.



Store in a stable, light-permeable and water-permeable place



Below: Sophisticated, tailor-made solutions for storage conditions

Above: Stable and secure, even in high-bay warehouses



Types of Shelf Gratings

- 10 Loose-fitting designs
- 12 Inserted designs

Loose-fitting designs

These variants of the MEISER shelving grating can be easily secured to the cross-beams of the shelving structure. To this end, the T-profile frame, which is extended downwards, features a notch that is specifically tailored to the width of the cross-beams. The downward-extended T-profile frame features a notch specifically design-

ned to accommodate the width of the cross-beams. The notch extends down to the level of the load-bearing bars, ensuring that these structurally critical elements rest flush on the cross-beam. Further specific adjustments can be made at a detailed level, as described below.

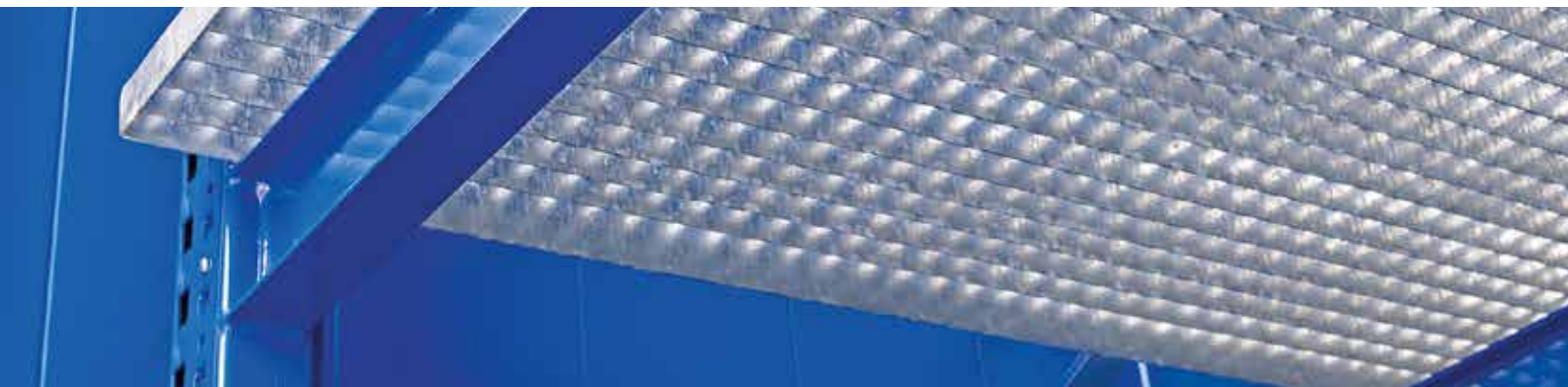
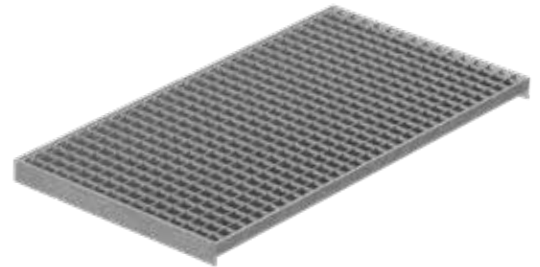
Shelf grating with notched T-profile edging

This is the standard design, which is cost-effective to manufacture and suitable for various shelving units with the same depth but with different cross-bar configurations.



Shelf grating, support bar side with raised edge trim

This grating features a raised edge, only at the ends of the support bars. As a result, the locking mechanism is less pronounced, allowing the grating to be used more flexibly, as it is not restricted to a specific cross-beam width.



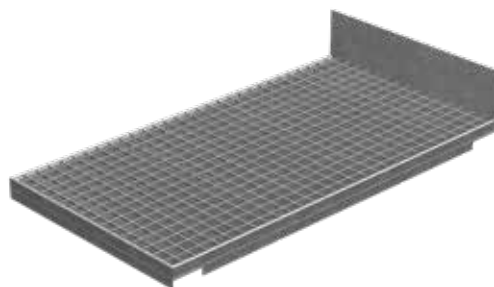
MEISER shelving grids, produced in our own hot-dip galvanising plant, are synonymous with durability and efficient warehousing



A wide range of shelving grating options allows for customised designs

Shelf grating, notched with anti-slip feature

In shelving systems, an anti-slip device is an important safety feature. If this has to be fitted separately, it incurs considerable costs. MEISER offers shelving grids with an integrated anti-slip device as part of its range. The rear is edged with a reinforced flat bar, the height of which can be selected as required.



Shelf grating with additional notches in the support area for double shelves

MEISER has also developed a special grating for what are known as double racks. Additional notches allow for a continuous connection across the double rack. Quick assembly is guaranteed.



Types of Shelf Gratings



Inserted designs

In addition to the standard variants, MEISER has developed this solution. The ends of the support bars are enclosed in a specially designed Z-profile, which is joined to the support bars by resistance welding. This makes the shelving grating equally robust. A key advantage

of the inserted shelving grating is the improved usable height of the shelving bays. As this grating is suspended between the longitudinal beams, it does not reduce the available insertion height.

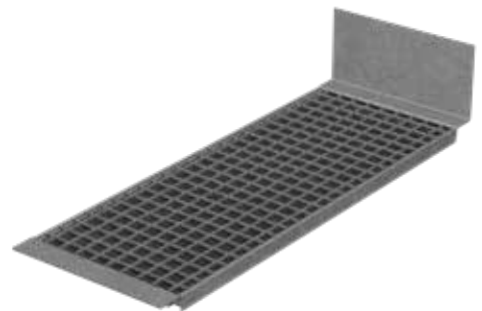
Shelf grating with Z-shaped angle profile edging/ MEISER special angle collar

This is the most common design for the inserted shelf grating. The angle collar consists of a specially developed rolled profile that is inserted into the support bars and additionally welded in place.



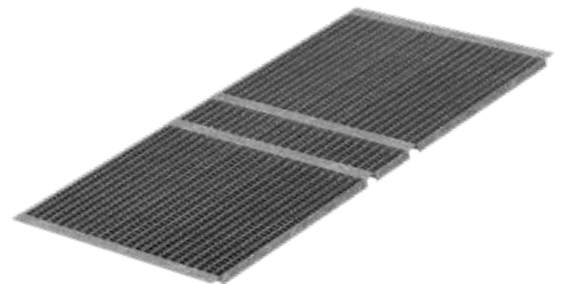
Shelf grating with Z-shaped angle profile edging and anti-slip protection

The inserted shelf grating can also be supplied with a slide-through guard. In this case, the special Z-profile is fitted with an additional leg, which prevents the goods from sliding through.



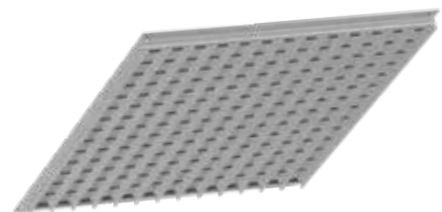
Shelf grating for double-deep racking

This shelving grating element consists of two grating panels joined together to form a single unit by means of notches at the centre. This creates a continuous connection across the double-deep racking unit, whilst maintaining the full usable height of the shelving.



Shelf grating fitted with a heat-retaining plate – Grating version

This grating has been specially developed to meet statutory fire safety requirements. A 0.8 mm thick, Sendzimir-galvanised smooth sheet is fitted to the U-sections or, in the case of mesh gratings, to the Z-sections. The sheet acts as a heat barrier and helps to retain heat in the event of a fire.

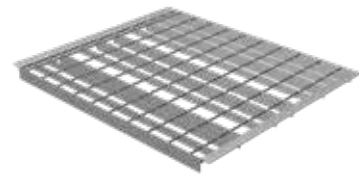


MEISER Modul – Strong. Light. Reliable.

Standard gratings are usually provided with bearing bars of the same size throughout. In storage racks, however, loads are often placed in fixed positions and are rarely moved, meaning that some bearing bars are subjected to significantly less stress than others. By using fixed dimensions and varying the height of the bearing bars according to the expected load, MEISER has developed a particularly lightweight shelf grating. Higher and therefore more load-resistant bearing bars are used in areas where higher loads are expected, while lower bearing bars are sufficient in less heavily loaded areas.



This intelligent design combines high load-bearing capacity with efficient material usage, resulting in a strong, lightweight and reliable shelving solution.



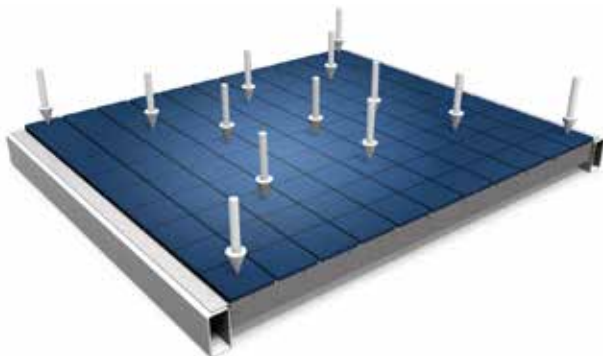
The exact loading conditions and permissible loads are already defined. The modules are ideally suited for Euro pallets or half pallets, positioned either lengthwise or crosswise, with different uniformly distributed loads.



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

Load table and type overview

The horizontal flange of the Z-profile measures 40 mm for all grating types.

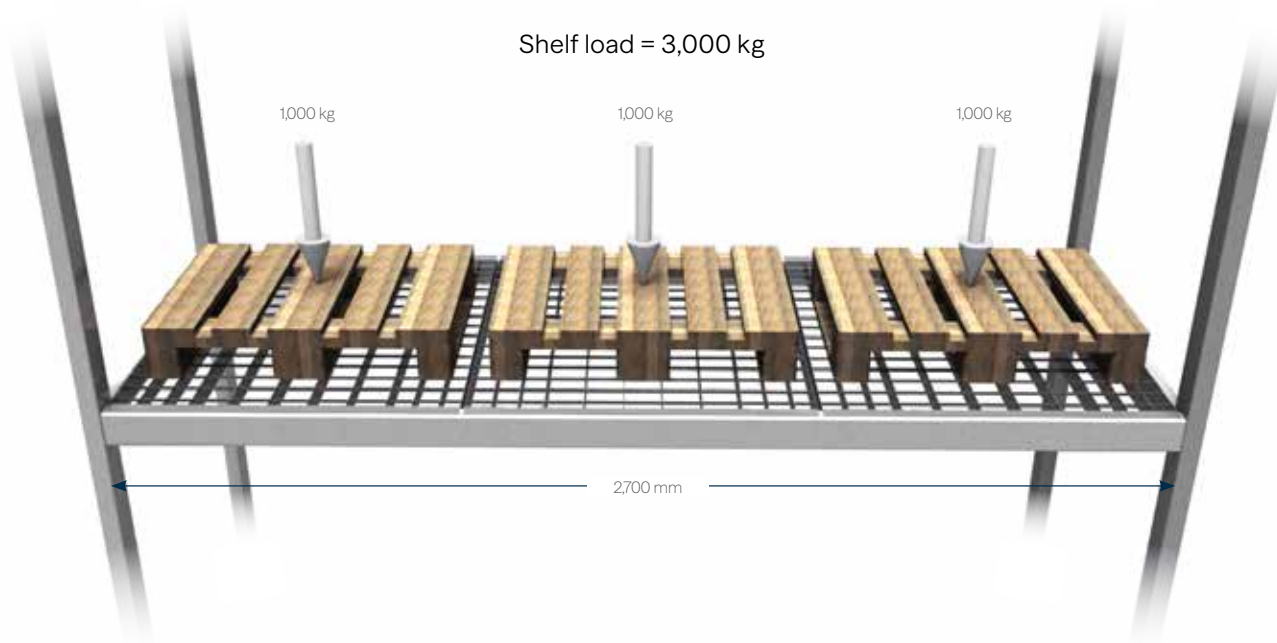


The composition of the MEISER module permits an evenly distributed payload

Load [kg/Rost]	Clear shelf depth [mm]	Width [mm]	Height [mm]	Material thickness [mm]	Mesh size [mm]	
					TS	FS
1.000	1.000 (995)	890	60	1,5	66 (99)	66
800	1.000 (995)	890	55	1,5	66(99)	99

Load specifications are available for EPAL 1 (1,200 × 800 mm) as well as EPAL 6 and EPAL 7 half-pallets (600 × 800 mm).

Load conditions: max. 1,000 kg uniformly distributed live load per grating (11,30kN/m²)		
Euro pallet / EPAL 1	lengthways or crossways	1,000 kg
Half-pallet / EPAL 6/7	lengthways or crossways	1,000 kg
2 Half-pallets / EPAL 6/7	lengthways or crossways	je 500 kg
Load conditions: max. 800 kg evenly distributed payload per grating (9,03kN/m²)		
Euro pallet / EPAL 1	lengthways or crossways	800 kg
Half-pallet / EPAL 6/7	lengthways or crossways	800 kg
2 Half-pallets / EPAL 6/7	lengthways or crossways	je 400 kg



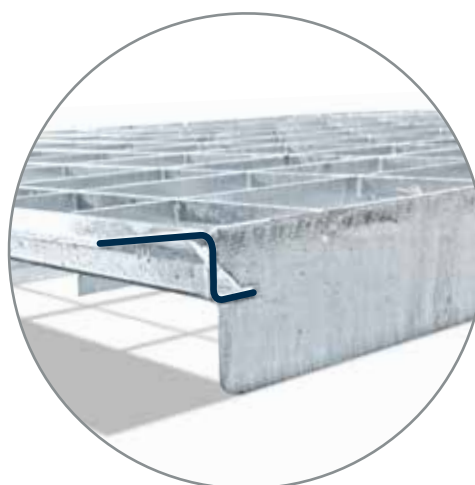
Example of application with 3 MEISER modular gratings, 995 × 890 mm, hot-dip galvanised, each with a maximum load of 1,000 kg

Possibilities to store europallets and half europallets



Advantages of the MEISER Modul

- Provided with a Z-profile to insert the shelf grating (overlying installation height max. 2 mm)
- Easy selection of the appropriate load category (see table)
- Current dimensions for most shelves e. g. 1800 (2 parts), 2700 (3 parts), 3600 (4 parts)
- Fast delivery of standard 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 < $L/200$)
→ complies with the requirements of DIN EN 15635
- Low weight
- Cost-efficient
- Easy calculation of the maximum bay load



The Z-profile allows the shelf grating to be fitted



Types of Shelf Gratings

MEISER Ultra-Modul – Efficiency in every bay

Three variants. One idea: Maximum loading with minimal material usage.

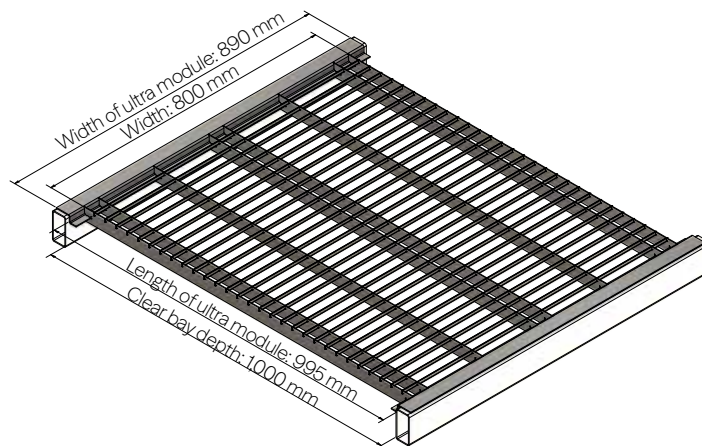
The ultra module is a high-quality shelf grating made of Sendzimir-galvanised slit strip, measuring 995 × 890 mm. It is ideally suited for shelving bays with a depth of 1,100 mm*. The material makes the Ultra-Modul suitable for indoor applications only.

The clear bay depth must be no more than 1,000 mm.

Product variants:

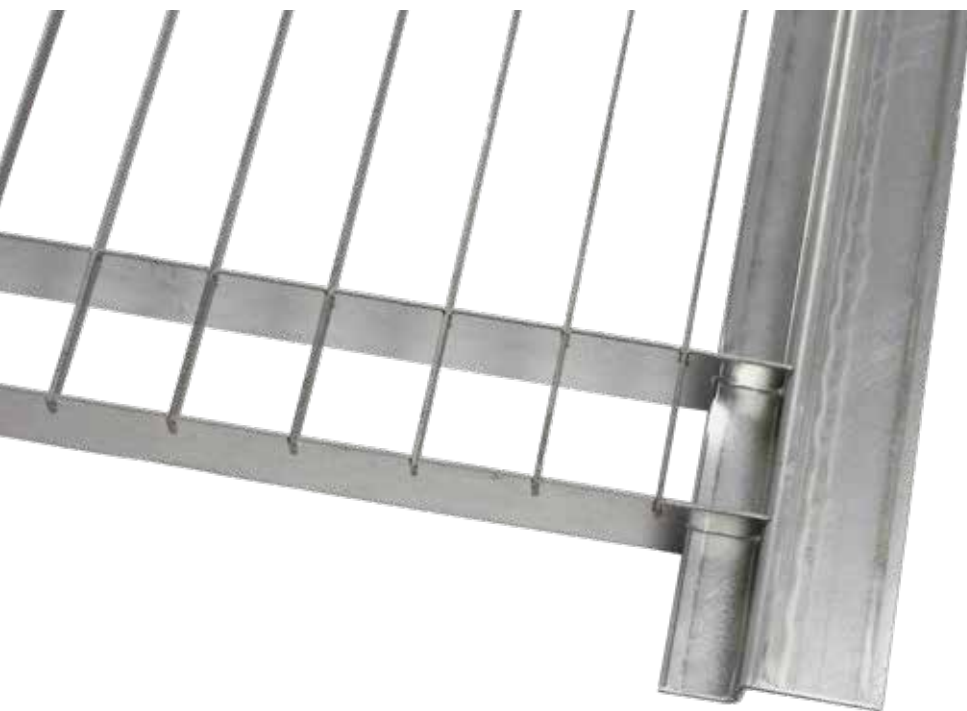
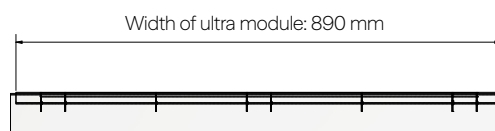
- Ultra-Modul 500 kg 995 × 890 svz
- Ultra-Modul 800 kg 995 × 890 svz
- Ultra-Modul 1,000 kg 995 × 890 svz

Loads are specified for EPAL 11, 200 × 800 mm and EPAL 6 and EPAL 7 half pallets 600 × 800 mm.



Load capacity in detail – tested and recommended

Ultra-Modul	EPAL 1 lengthwise/ crosswise	EPAL 6/7 lengthwise	EPAL 6/7 crosswise
500 kg 995 × 890 svz	500 kg	290 kg	275 kg
800 kg 995 × 890 svz	800 kg	550 kg	460 kg
1,000 kg 995 × 890 svz	1,000 kg	660 kg	550 kg



Detail of a MEISER Ultra module

Storage recommendations for customers:

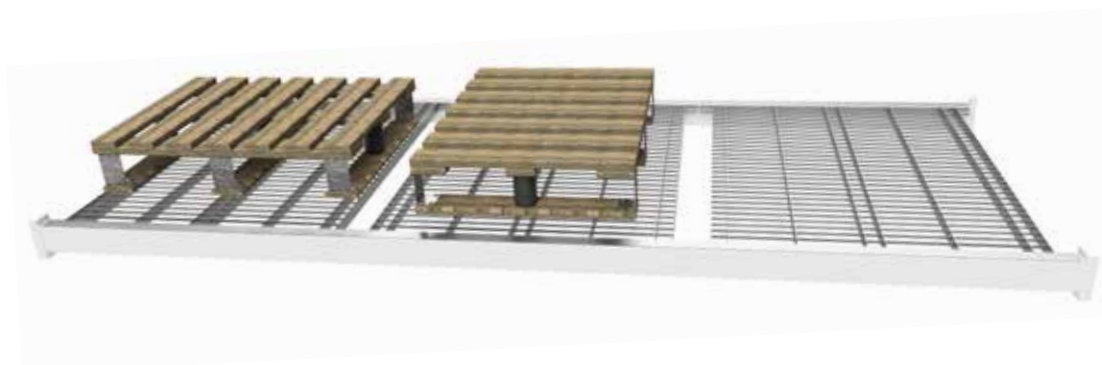
Benefits at a glance

- Standard dimensions: 995 × 890 mm
- Suitable for shelving bays 1,800 / 2,700 / 3,600 mm wide
- Minimal deflection under load
- Recessed installation using a Z-profile
- Compatible with sprinkler systems
- Fast delivery, even for very small quantities
- Easy selection based on load requirements

Ultra-Modul 500 kg 995 × 890 svz		
Euro pallet / EPAL 1	lengthwise	500 kg
Euro pallet / EPAL 1	crosswise	500 kg
Half-pallet / EPAL 6/7	lengthwise	290 kg
Half-pallet / EPAL 6/7	crosswise	275 kg

Ultra-Modul 800 kg 995 × 890 svz		
Euro pallet / EPAL 1	lengthwise	800 kg
Euro pallet / EPAL 1	crosswise	800 kg
Half-pallet / EPAL 6/7	lengthwise	550 kg
Half-pallet / EPAL 6/7	crosswise	460 kg

Ultra-Modul 1,000 kg 995 × 890 svz		
Euro pallet / EPAL 1	lengthwise	1,000 kg
Euro pallet / EPAL 1	crosswise	1,000 kg
Half-pallet / EPAL 6/7	lengthwise	660 kg
Half-pallet / EPAL 6/7	crosswise	550 kg





Stock range & Warehouse technology

- 20 Loose-fitting designs
- 21 Inserted designs
- 22 MEISER Modul
 MEISER Ultra-Modul
- 23 Checklist

Loose-fitting designs

Finish: individually galvanised, for outdoor use

Shelf gratings with notched T-profile edging / T-45 all round (80 × 15 mm notched)						
Variant	Support beam length [mm]	Crossbar [mm]	Mesh size [mm]	Support beam [mm]	Material	Load capacity [kg/m²]
launched	817	395	66 × 33	30 × 1,5	S235	754
launched	817	895	66 × 33	30 × 1,5	S235	754
launched	817	1,120	66 × 33	30 × 1,5	S235	754
launched	817	1,307	66 × 33	30 × 1,5	S235	754

Shelf gratings with notched T-profile edging / T-50 all round (80 × 15 mm notched)						
Variant	Support beam length [mm]	Crossbar [mm]	Mesh size [mm]	Support beam [mm]	Material	Load capacity [kg/m²]
launched	1,217	395	66 × 33	50 × 1,5	S355	1,281
launched	1,217	895	66 × 33	50 × 1,5	S355	1,281
launched	1,217	992	66 × 33	50 × 1,5	S355	1,281

Shelf gratings with T-50/55 edging at the bottom of the support bar ends						
Variant	Support beam length [mm]	Crossbar [mm]	Mesh size [mm]	Support beam [mm]	Material	Load capacity [kg/m²]
launched	1,261	1,340	33 × 33	35 × 2	S235	982
launched	1,112	895	66 × 44	40 × 1,7	S355	1,054
launched	1,113	888	66 × 66	35 × 1,5	S235	503
launched	1,113	888	66 × 66	40 × 1,5	S355	930
launched	1,113	888	66 × 66	40 × 1,7	S355	1,054

Shelf gratings with T-45 edging at the bottom of the support bar ends						
Variant	Support beam length [mm]	Crossbar [mm]	Mesh size [mm]	Support beam [mm]	Material	Load capacity [kg/m²]
launched	861	1,340	33 × 33	30 × 1,7	S235	1,443
launched	1,061	1,780	33 × 33	30 × 1,7	S235	899
launched	1,061	1,340	33 × 33	30 × 1,7	S235	899
launched	1,061	1,790	33 × 33	30 × 1,7	S235	899
launched	1,061	1,640	33 × 33	30 × 1,7	S235	899

Inserted designs

Finish: Sendzimir galvanised, for indoor use

Shelf gratings with Z-shaped angle profile edging / MEISER special collars — support bar ends with Z-45						
Variant	Support beam length [mm]	Crossbar [mm]	Mesh size [mm]	Support beam [mm]	Material	Load capacity [kg/m²]
placed	695	1.335	66 × 33	35 × 1,5	S350 GD	1.551
placed	695	1.780	66 × 33	35 × 1,5	S350 GD	1.551
placed	695	1.090	66 × 33	35 × 1,5	S350 GD	1.551
placed	695	1.640	66 × 33	35 × 1,5	S350 GD	1.551
placed	995	1.335	66 × 33	35 × 1,7	S350 GD	706
placed	995	1.335	66 × 33	40 × 1,7	S350 GD	1.054
placed	995	1.780	66 × 33	35 × 1,7	S350 GD	706
placed	995	1.780	66 × 33	40 × 1,7	S350 GD	1.054
placed	995	1.090	66 × 33	40 × 1,7	S350 GD	1.054
placed	995	1.640	66 × 33	40 × 1,7	S350 GD	1.054
placed	995	1.335	66 × 33	45 × 1,7	S350 GD	1.423
placed	995	1.780	66 × 33	45 × 1,7	S350 GD	1.423

Finish: individually galvanised, for outdoor use

Shelf gratings with Z-shaped angle profile edging / MEISER special collars — support bar ends with Z-45						
Variant	Support beam length [mm]	Crossbar [mm]	Mesh size [mm]	Support beam [mm]	Material	Load capacity [kg/m²]
placed	945	395	33 × 33	40 × 2	S235	1.900
placed	945	895	33 × 33	40 × 2	S235	1.900
placed	995	895	66 × 44	40 × 1,7	S355	1.054
placed	965	395	33 × 33	40 × 2	S235	1.822
placed	965	895	33 × 33	40 × 2	S235	1.822

MEISER Modul

Finish: individually galvanised, for outdoor use

MEISER Modul 800 kg				
Variant	Support beam length [mm]	Crossbar [mm]	Material	Load capacity [kg/m²]
launched	995	890	S355	903

MEISER Modul 1.000 kg				
Variante	Support beam length [mm]	Crossbar [mm]	Material	Load capacity [kg/m²]
launched	995	890	S355	1,130

MEISER Ultra-Modul

Finish: Sendzimir galvanised, for indoor use

MEISER Ultra-Modul 500 kg			
Variante	Support beam length [mm]	Crossbar [mm]	Material
launched	995	890	S350 GD

MEISER Ultra-Modul 800 kg			
Variante	Support beam length [mm]	Crossbar [mm]	Material
launched	995	890	S350 GD

MEISER Ultra-Modul 1,000 kg			
Variante	Support beam length [mm]	Crossbar [mm]	Material
launched	995	890	S350 GD

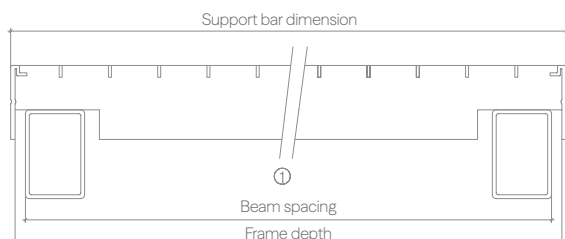
Checklist



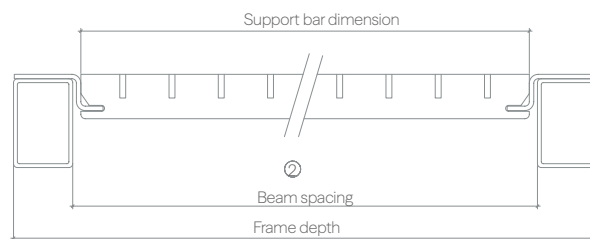
Shelf Gratings

Please use the checklist as a template to help you place your order.

Quotation number / Project number _____



☐ Loose-fitting designs



☐ Inserted designs

Project details

Postcode area _____ Delivery date _____ Editor _____ Date _____

Types of grating

☐ Support grating with anti-slip device

☐ with a target

Mesh size as per the customer's requirements:

☐ Insertable grating with angle flange

☐ optimise according to the target

_____ mm x _____ mm

Load

☐ per subject (Frame depth _____ mm x Beam length _____ mm)

☐ TS specification: _____

_____ kg Live load

☐ TS optimises according to load

☐ per m²

☐ Point load

Dimensions				
Live load	Frame depth	Beam length		Quantity



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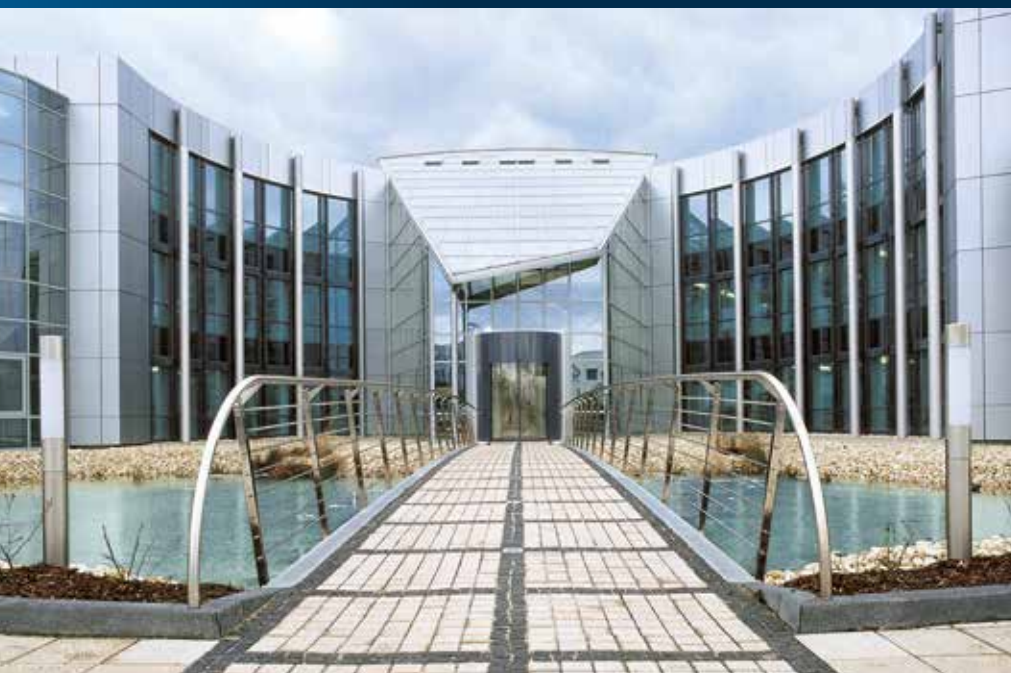
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Fax +49 37421 50-2120
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since 1956
in Schmelz-Limbach

since 1991
in Oelsnitz/Vogtland

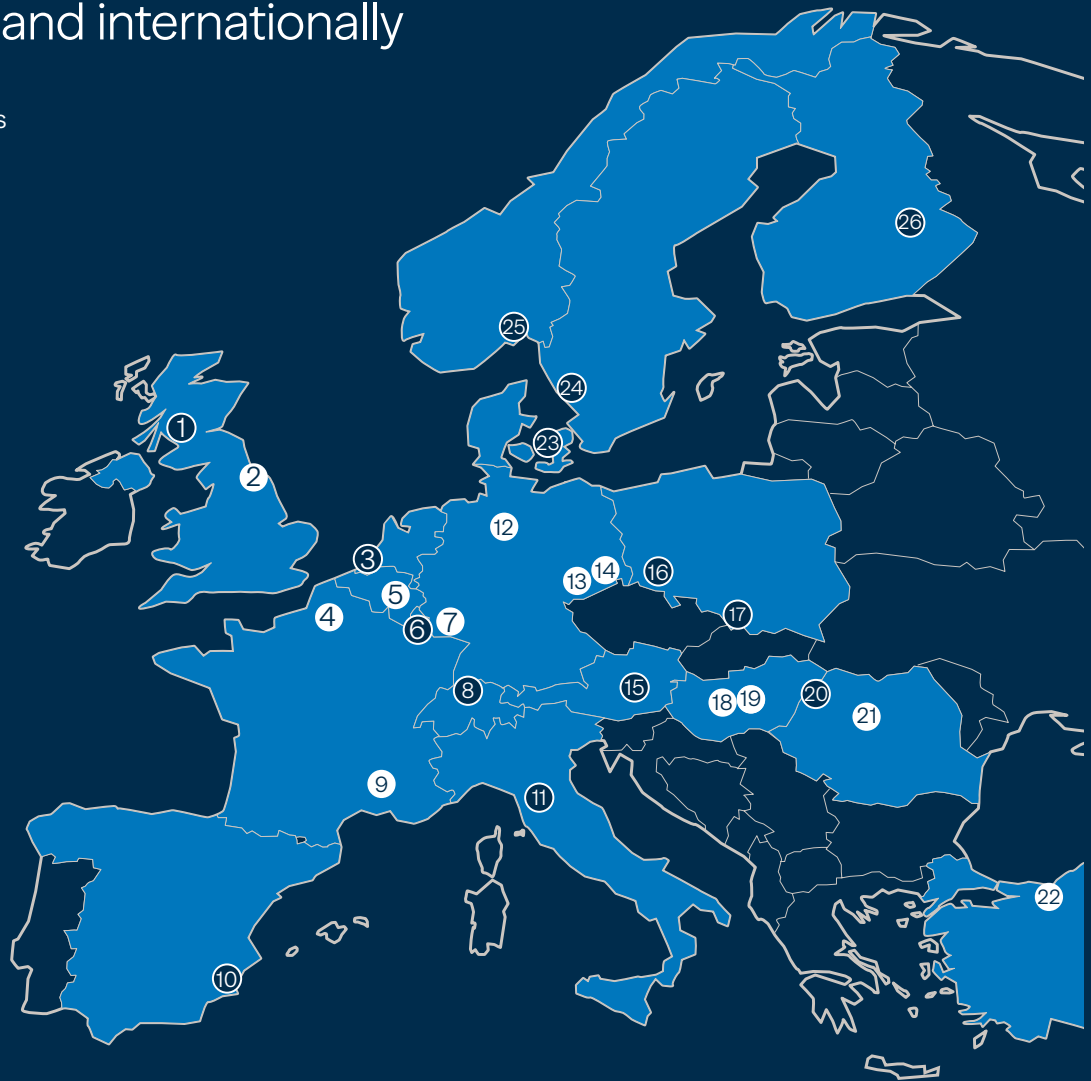


- ① Meiser UK Ltd
- ② The Expanded Metal Company
- ③ RST Meiser Nederland B.V.
- ④ Meiser Sarl
- ⑤ Meiser Fameco S.A.
- ⑥ Distriroute SAS
- ⑦ Gebrüder Meiser GmbH
Meiser Solar GmbH
Meiser Road Safety GmbH
- ⑧ PMI MEISER Gitterroste AG
- ⑨ Meiser Agriculture Solutions S.A.S.
- ⑩ Meiser Rejillas Hispania S.L.
- ⑪ Meiser Agriculture Solutions Italia
- ⑫ Sorst Streckmetall GmbH
- ⑬ Meiser Vogtland GmbH & Co. KG
- ⑭ ALFIX GmbH
- ⑮ Meiser Österreich GmbH
- ⑯ Meiser Road Safety Sp.z o.o
- ⑰ Meiser Polska SP.z o.o
- ⑱ Meiser Ferroste Kft.
- ⑲ ALFIX Ungarn Kft.
- ⑳ Meiser România SRL
- ㉑ Meiser FRP S.R.L.
- ㉒ Meiser Izgara San ve Tic Ltd Sti
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- ㉔ Meiser Sweden AB
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- ㉚ IKG - Indiana
- ㉛ Marangoni MEISER USA
Marangoni MEISER
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- ㉞ Hady MEISER Egypt
- ㉟ Meiser AC Sarl
- ㊱ Lionweld MEISER LLC

MEISER's production sites and branches. Nationally and internationally

● Production sites

○ Offices



MEISER Worldwide



Scan here to see all MEISER locations and
other branches – worldwide



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