

Temporary and mobile ground protection systems

Product information and technical data

Applications of our products for mobile ground protection:



Heavy load
transports



Temporary
walkways



Concerts and
events



Esthetic
event floors



Mobile installation
surfaces for cranes



Line
construction



Mobile parking lots



Mobile logistics



Wind power plant
construction



Tent floors



Road construction
and access roads



Special projects

VARIO mat 2 OS

Material:

High molecular weight polyethylene

Dimensions: 1000 x 2000 mm

Usable Surface: 1,71 m²

Total thickness: 31,5 mm

weight circa. : 41 kg

Surface:

Top 5 mm profile

Underside 2,5 mm profile

Assembly options:

7 pcs. M16

Colour: black multi-coloured

Load bearing capacity (circa):

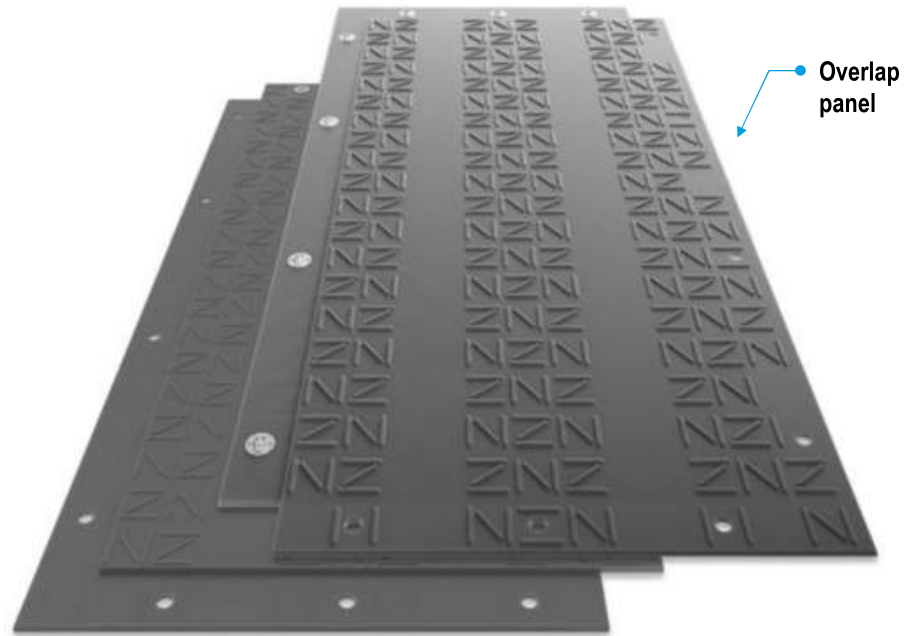
130t (depending on the substrate)

Transport capacity:

520units (889m²) **Lorry**

200units (342m²) **20'-Container**

400 units (684m²) **40'-Container**



Fields of application:



Mobile installation
surfaces for cranes



Heavy load
transports



Mobile logistics



Wind power
plant
construction



Temporary
walkways



Road construction
and access roads



Line
construction



Concerts and
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Mobile parking
lots

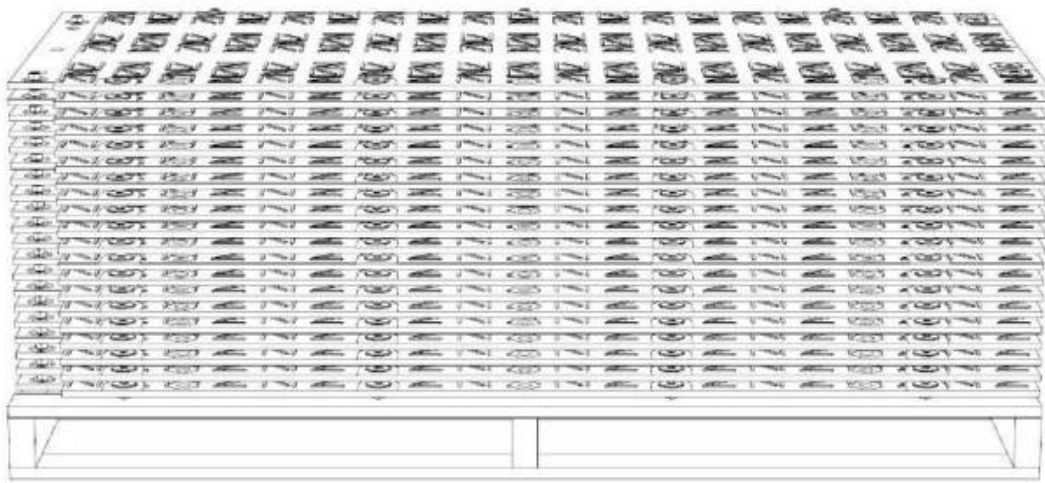


General information

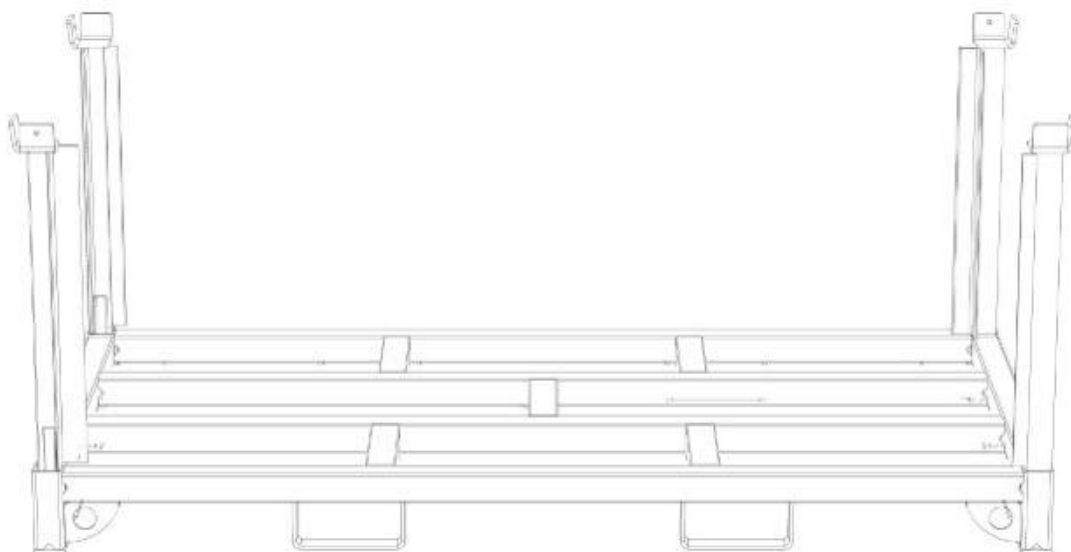
Unloading:

The panels can be unloaded from a lorry using a forklift truck or a crane. When lifting, special care must be taken to ensure that the panels cannot slip or fall off.

Storage: Never stack directly more than 20 panels at a time.

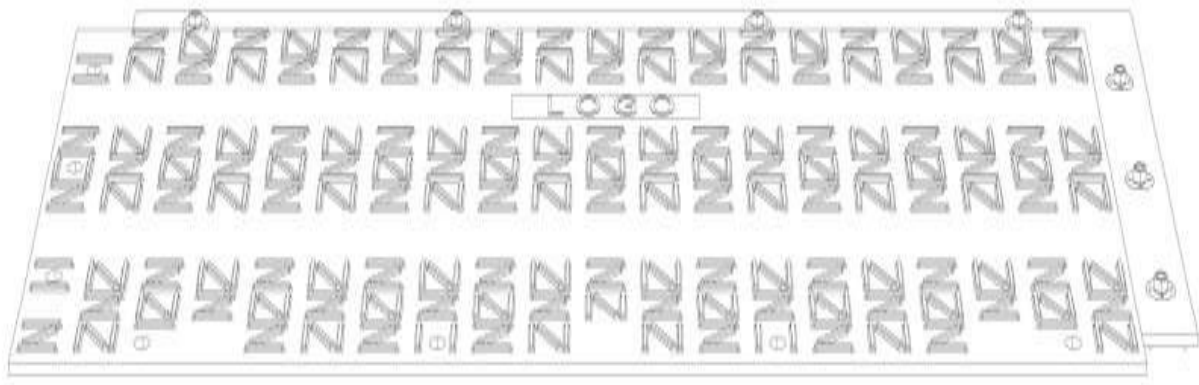


Storage: Never stack more than 20 panels on a stake rack.

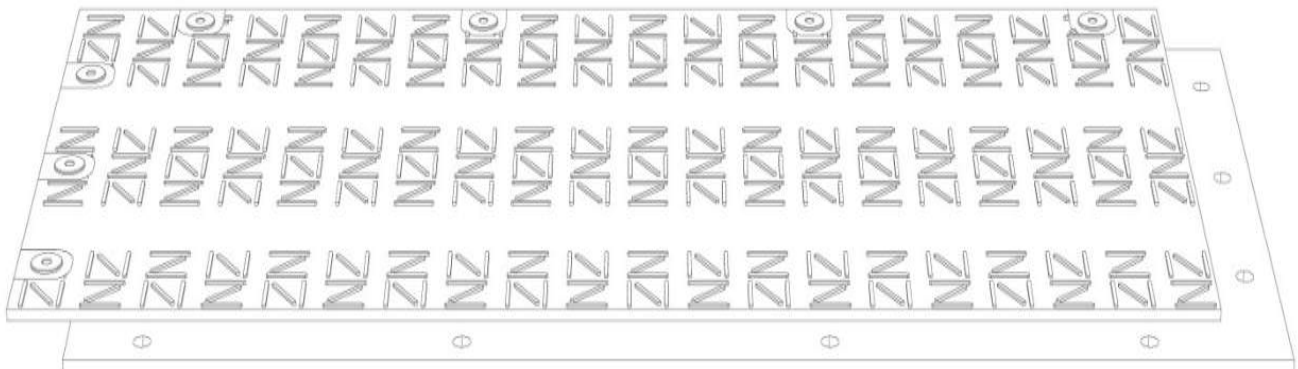


Use of the panels:

The panel can only be used from the top with a profile height of approx. 5 mm.

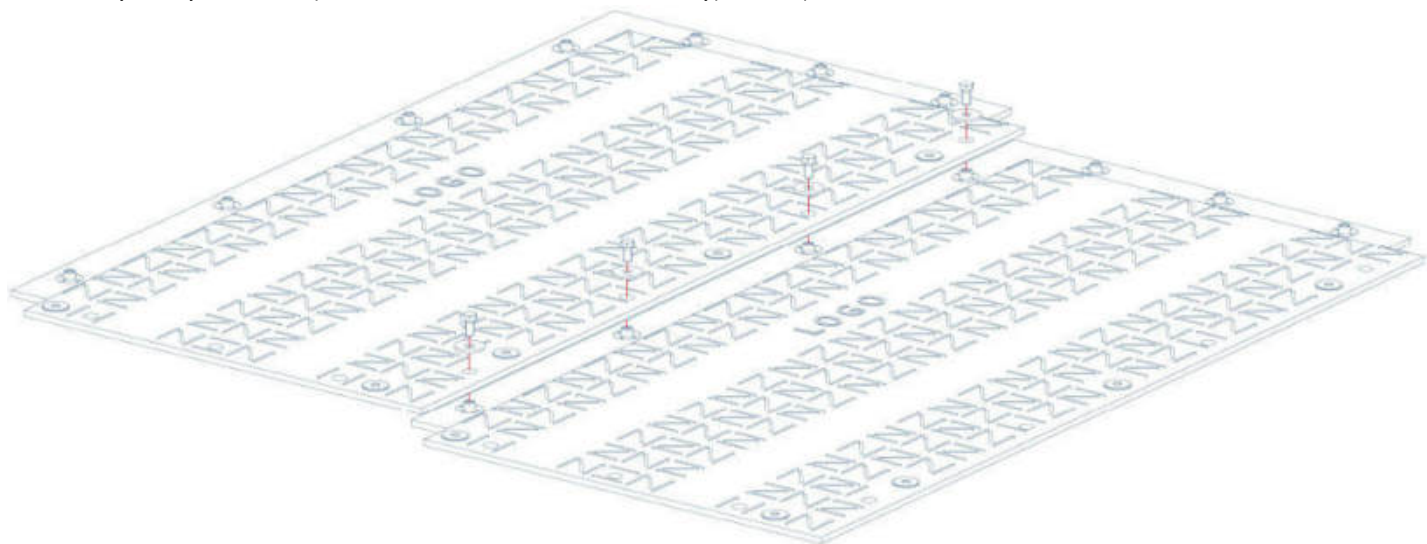


The profile on the bottom is lower than on the top



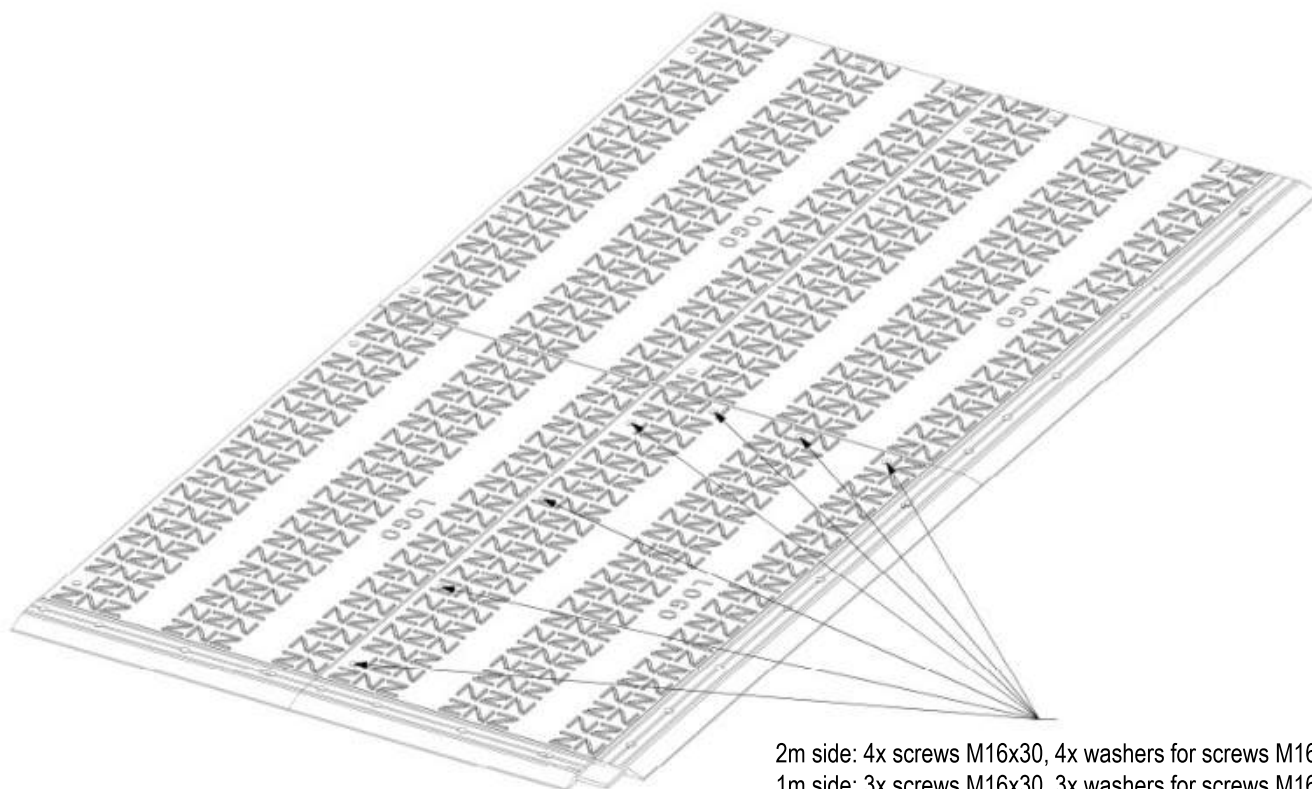
Connecting the panels:

The panels are connected and screwed together using washers and screws (M16x30mm). All adjacent panels must be connected in this way. Always install the panels so that the surfaces of the same type face upwards.



Connecting the panels together (vehicle side):

The panels are connected and screwed together using washers and screws (M16x30mm). All adjacent panels must be connected in this way. Always install the panels so that the surfaces of the same type face upwards.



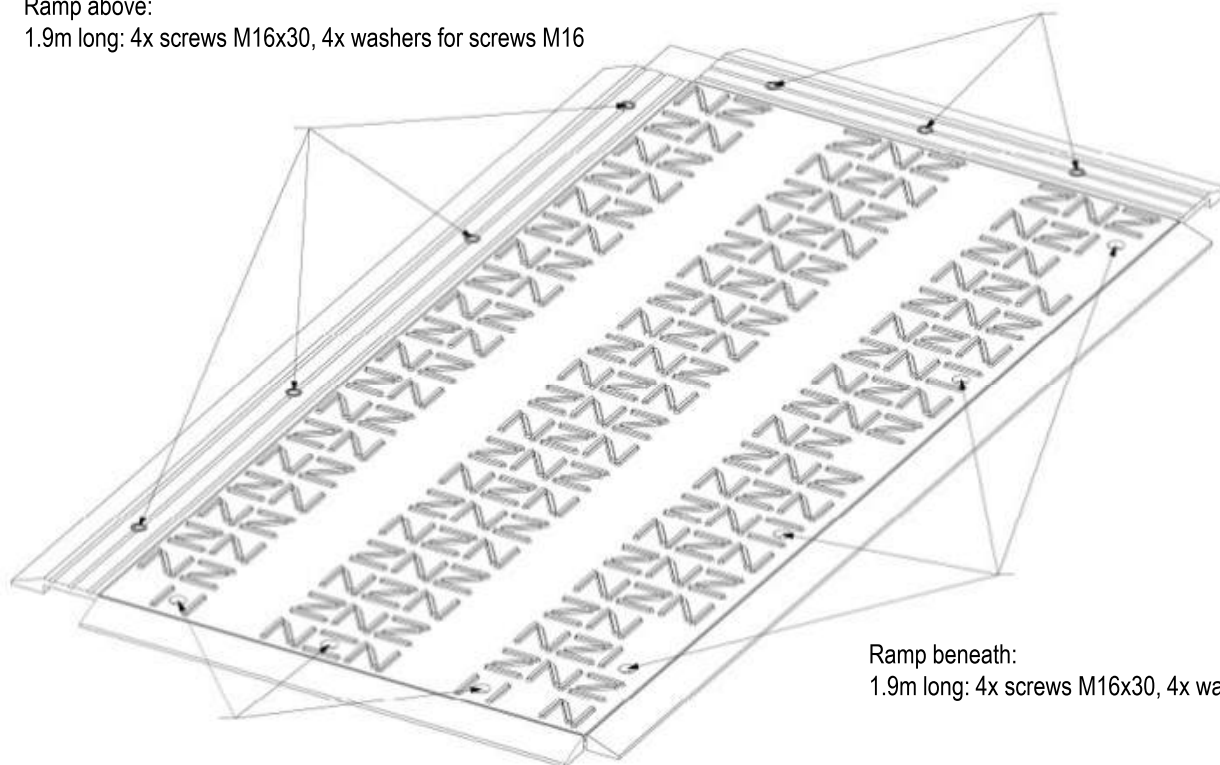
2m side: 4x screws M16x30, 4x washers for screws M16
1m side: 3x screws M16x30, 3x washers for screws M16

Connecting the panels to the ramps (vehicle side):

The panels are connected and screwed together using washers and screws (M16x30mm). All adjacent panels must be connected in this way. Always install the panels so that the surfaces of the same type face upwards.

Ramp above:
1.9m long: 4x screws M16x30, 4x washers for screws M16

Ramp above:
0.9m long: 3x screws M16x30, 3x washers for screws M16



Ramp beneath:
0.9m long: 3x screw M16x30, 3x washer for screw M16

Ramp beneath:
1.9m long: 4x screws M16x30, 4x washers for screws M16

Technical data of the varioMAT series

Material: High molecular weight polyethylene

Melting point: 135 – 140°C

Inflammation temperature: > 330°C

According to ISO 11359, the material is subject to a coefficient of linear thermal expansion of approximately 0.2 mm per 1000 mm length per 1°C.

Flammability (self-classification) DIN 4102: class B2

Flammability (self-classification) UL 94: class HB

Very good wear and impact resistance, even at high and very low temperatures (-50°C).

The high proportion of high and ultra-high molecular weight regenerated polyethylene makes the vario series remarkable in terms of quality and environmental protection.

References since 2010 in the following areas: oil and gas, construction sites, heavy construction, wind farms, events and concerts, as well as overhead line construction.

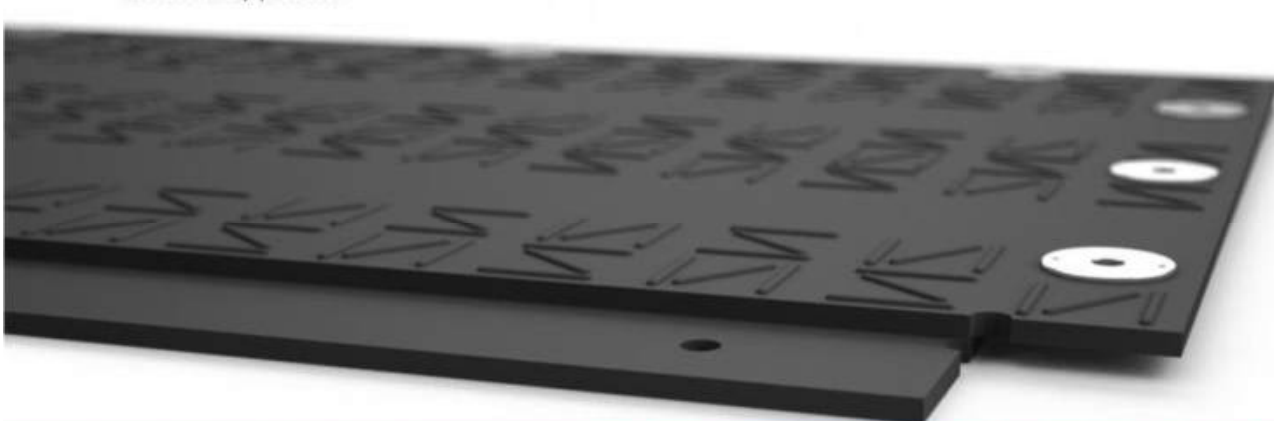
Characteristics

The varioMAT panels are screwed together, creating a stable road or working platform, both in length and width, for the safe movement of vehicles and handling of loads.

The load-bearing capacity of the substrate is thus considerably optimised, soil compaction is minimised and damage to vegetation is avoided. Thanks to the different traction surfaces on both sides of the panels, depending on the model, the varioMAT panels are versatile. The low profile surface on one side is particularly suitable for pedestrians, cyclists and wheelchair users as well as cars. Thicker profiles on the other side, on the other hand, ensure optimum traction for heavy vehicles, even in difficult terrain. Depending on their size, the varioMAT panels can be installed by hand or with the aid of a crane lorry and guarantee safe access right from the start of the assembly process.

Logistics

varioMAT panels are lighter than most alternative mobile roadway panels. This means that more panels can be loaded on a lorry or in a container, which reduces transport costs.



Safety instructions

1.
All models of the varioMAT product family (hereinafter "**panels**") are designed exclusively for use by professionals in the industrial sector.
2.
If these panels are made available to a third party (i.e. not the purchaser), the purchaser must be expressly informed of the safety instructions. He must be provided with a copy of these safety instructions. This also applies to all persons who are responsible for the use (in particular storage, loading and unloading, as well as laying) of the panels.
3.
The panels are designed and suitable for use as a traction aid (e.g. for driving vehicles). They are not suitable for securing existing ground against slipping (especially sloping ground or slippery surfaces). The panels may only be subjected to a load if it is ensured that the substrate does not give way and/or that slipping of the substrate and/or the panels is impossible. This applies in particular if the panels are used by vehicles and/or a crane.
4.
The panels must not be used to fill uneven surfaces (e.g. holes in the ground, trenches, etc.). The panels are not dimensionally stable and will deform if they are not laid directly on an existing substrate. The panels should preferably be laid on a flat surface.
5.
Any force acting on the panels may cause them to deform. This may result in a risk of falling, e.g. due to unevenness, raised edges, etc.
6.
The surface of the panels may be slippery in the event of moisture, frost, fallen leaves, heavy soiling and/or similar phenomena. This can lead to a risk of falling. In this case, the profiling of the panels may not guarantee a firm grip on the panels.
7.
The surface of the panels can heat up considerably in strong sunlight. Physical contact must be urgently avoided in these cases.
8.
The panels must not be used as a base for playgrounds (places of any kind intended for children/infants). The panels may contain substances that are hazardous to health when placed in the mouth.
9.
Stumbling may occur when walking on the panels (especially in the transition areas between two interconnected panels). This is particularly true when wearing shoes that do not have a firm, flat sole (for example, women's shoes with heels).

If the panels are to be stepped on by people, it is imperative to ensure that the screws are fully screwed into the panels and that only the screw heads protrude from the surface of the panels. For the product varioMAT F (AS), varioMAT 3 OL AS and varioMAT 4, it is recommended to close the holes in the lifting lugs after installation using the covering accessories offered by the seller.
10.
If the panels are used at large events, visitors should be informed that the panels may have irregularities and are not suitable for walking without sturdy footwear.

Safety instructions (continued)

11.

The panels may be driven over by tracked vehicles. However, this should only be done after appropriate protection has been put in place. Turning tracked vehicles without a chain guard can damage the nub pattern and connectors.

12.

Panels do not allow air or light to pass through. Plants under the panels (especially turf) can be damaged / irreparably destroyed by prolonged use.

13.

The panels are made of high molecular polyethylene. The melting point is approximately 135 - 140°C. The ignition temperature is > 330°C Flammability (self-classification) DIN 4102: class B2; Flammability (self-classification) UL 94: class HB].

Suitable extinguishing media: Water, water spray, carbon dioxide, foam, dry chemical extinguishing powder

14.

The varioMAT 3 (AS), varioMAT 3 OL AS, varioMAT 4, varioMAT TT AS and varioMAT F (AS) panels can be loaded and unloaded by means of a forklift truck or a crane. It is strongly advised not to lift them by hand.

VarioMAT basic AS, varioMAT mini AS, varioMAT 1 AS, varioMAT 1+ AS, varioMAT 2 , varioMAT 2 OS and varioMAT 2 AS type panels are man-handleable.

15.

Due to the shape of the panels, they may slip if they are not lifted/unloaded horizontally. The same applies in case of heavy rain or thunderstorms, etc. The panels must also be secured with suitable lashings during transport.

No person must be in the immediate vicinity of the panels when loading/unloading them. Improper handling can result in serious injury or death.

16.

If a chain sling is used (and a crane, if necessary), the panels may only be lifted using the lifting devices adapted for this purpose and specified in this sheet. Before each lifting operation, ensure that the load handling attachments are firmly inserted and cannot slip. The instructions given above under "General information" must be adhered to.

17.

If the panels are installed in combination, all adjacent panels must be firmly connected to each other so that they cannot slip. For this purpose, the accessories listed in this sheet, in particular screws and metal connectors, must be used. The panels must be laid in such a way they each point upwards / downwards with the same profile thickness. Improper connection can result in damage, especially to vehicles used on the panels.

18.

The ground protection panels may only be driven over at a speed of max. 10 km/h.

19.

The ground protection panels are suitable for truck axle loads up to 12 t.



Lifting device

Load capacity 4 units: 500 kg
Load capacity 1 unit: 170kg

This lifting device must be used for the following models:

varioMAT 3
varioMAT TT AS

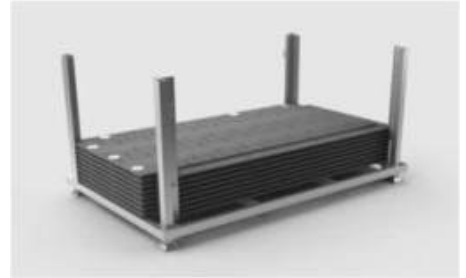


Lifting device

Load capacity 4 units: 500 kg
Load capacity 1 unit: 170kg

This lifting device must be used for the following models:

varioMAT F, varioMAT 3 OL AS
varioMAT 4



Stake rack

Stake racks do for a flexible storage system.

available for

varioMAT 1 AS
varioMAT 1+ AS
varioMAT 2, varioMAT basic AS



Screws and washers

Commercially available screws can be used with all products. Please use screws that do not exceed the maximum length.

M10 x 16

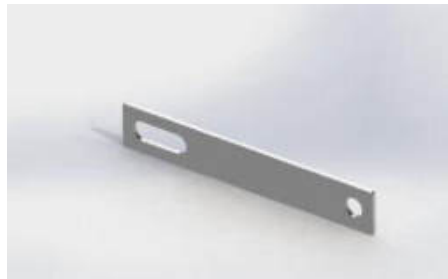
varioMAT mini AS, varioMAT 1 AS, varioMAT 1+ AS, varioMAT basic AS

M16 x 30

varioMAT 2, varioMAT 2 AS, varioMAT F

M16 x 40

varioMAT 3, varioMAT 3 OL AS, varioMAT TT AS, varioMAT 4



Metal connector (universal)

Metal connectors are used to screw the ground protection panels together. They are suitable for the following models :

varioMAT 3
varioMAT TT AS
varioMAT 3 ramp



2-way metal connector

The ground protection panels are connected by the new all-metal 2-way connectors and M10 screws. These connectors are suitable for the following products:

varioMAT mini AS, varioMAT 1 AS, varioMAT 1+ AS, varioMAT basic AS



Ramp, above

Mounting "over" the overlapping edge.

varioMAT 2, Length 900 mm

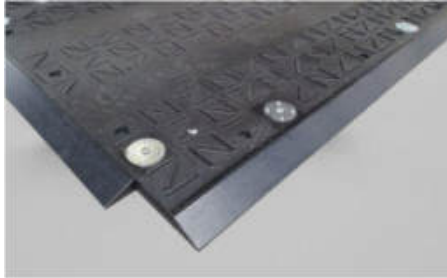
varioMAT 2, Length 1900 mm

varioMAT 3 OL AS, Length 1900mm

varioMAT 3 OL AS, Length 2900 mm

varioMAT 4, Length 1900mm

varioMAT 4, Length 3900 mm



varioMAT 2 - Ramp, beneath

Mounting "under" the overlapping edge.

varioMAT 2, Length 900 mm

varioMAT 2, Length 1900 mm

varioMAT 3 OL AS, Length 1900mm

varioMAT 3 OL AS, Length 2900 mm

varioMAT 4, Length 1900mm

varioMAT 4, Length 3900 mm



Ramp

Mounting butt before edge

varioMAT 3, Length 2000 mm

varioMAT 3, Length 3000 mm



4-way metal connector

The ground protection panels are connected by the new all-metal 4-way connectors and M10 screws. These connectors are suitable for the following products:

varioMAT mini AS, varioMAT 1 AS,
varioMAT 1+ AS, varioMAT basic AS

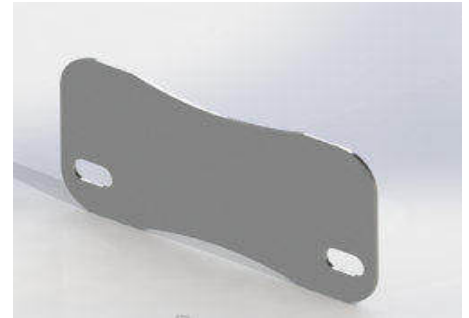


4-way connecting cover panel

These connectors are suitable for the following products:

varioMAT F

varioMAT 3



2-way connecting cover panel

These connectors are suitable for the following products:

varioMAT F

varioMAT 3

OKULEN®

Technische Kunststoffe
Engineering Plastics



Innovative floor protection

We develop and produce products, such as mobile construction site panel systems, which are state-of-the-art and convince with their unique properties.

Our temporary ground protection panels and mobile construction site roads are used, for example, in the construction and civil engineering sector, for earthworks or at open-air events. We offer cost-effective solutions for demanding and constantly changing conditions. Temporary accesses and walkways as well as ground protection elements are our speciality.

We help you achieve your strategic business objectives, avoid environmental damage, save time and reduce project costs.

Whatever project you are considering, our products make it easy and fast to install temporary access roads and lanes or mobile construction site roads.

We would be happy to inform you about your contact person in your area.