

TWF TIEFBAUTECHNIK

Rental | Sales | Service



MRS - MEDIUM

Temporary and Mobile ground protection systems

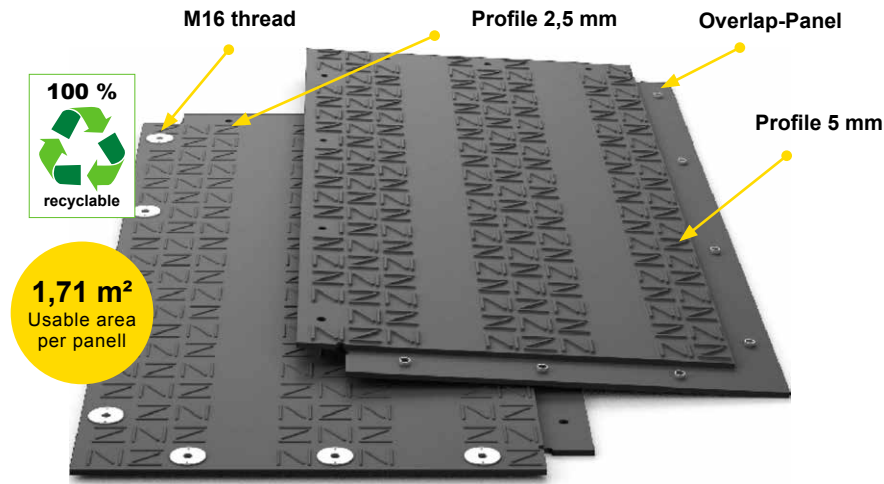
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OPERATING MANUAL

► MRS Medium - Operating Manual

■ MRS Medium



► Properties

The heavy-duty mat, which can be set up by hand, can withstand even the highest loads (130 tons). The newly designed profile with standardized ruts is suitable for driving over with a truck or wheelbarrow as well as for heavy-duty use of tracked vehicles and heavy construction machinery.

Material: polyethylene, high molecular weight

Dimensions: 2000 x 1000 x 31,5 mm (incl. Profile) **Overlap edge:** 100 mm

Weight per Panel: approx 40,5 kg

Surface / Colour: 5,0 & 2,5 mm profile / black-coloured

Load capacity: approx 130 t (depending on the ground conditions)

Transport per truck: 520 units (889 m²)



Mobile crane working spaces



Heavy load transports



Mobile logistics



Wind power construction



Temporary walkways



Road construction and access routes



Transmission



Concerts and events



Mobile parking spaces



Tent floors

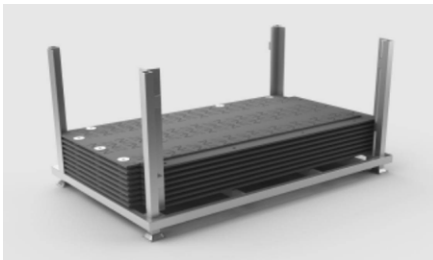
■ Two people set up to 60 **MRS - medium** panels per hour without any additional aids.



► MRS Medium - Operating Manual

■ MRS Medium - Accessories

The **MRS - Medium Ground Protection Panels** allow quick connection through **overlap** using **M16 screws**, with up to 7 connection options.



Symbol photo

■ Stacking Rack MRS Medium

The stacking rack pallets are flexible and stackable storage systems.

Weight: 90 kg

Order No.: 50 901 001

(20 panels per pallet)



MRS Medium - Ramp Top

Assembly "on" the overlap edge

■ 900 mm length

Weight: 2 kg

Order No.: 50 500 011

■ 1900 mm length

Weight: 4 kg

Order No.: 50 500 010



MRS Medium - Ramp Below

Assembly "on" the overlap edge

■ 900 mm length

Weight: 3 kg

Order No.: 50 500 013

■ 1900 mm length

Weight: 5 kg

Order No.: 50 500 012



■ M16 Screws / Washers

Commercially available screws are used with all products.

Weight: 0.032 kg (incl. washer)

Order No.: 50 900 000

(140 pieces per pallet / 7 pieces per panel)



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Laying the panels (panels should be dismantled in reverse order)

Unloading from lorries:

There are two ways of unloading the panels:

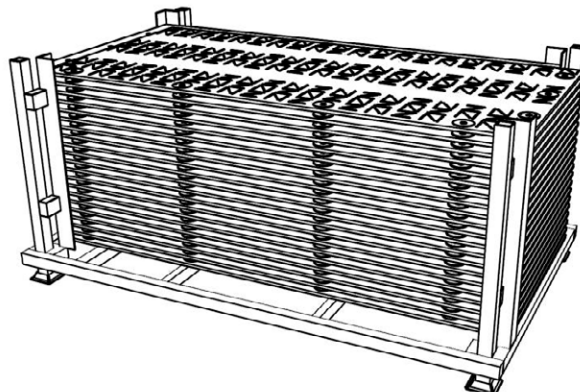
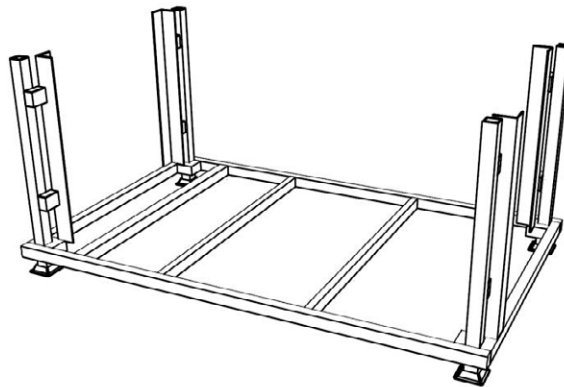
- The panels can be easily loaded and unloaded.
- Stacks of panels can be unloaded using a forklift truck:
Care should only be taken to ensure that the forks are long enough (at least 100 cm) and that the individual panels are made safe to stop them falling.

Storage:

The panels should be stacked no more than 25 per stack. It is advisable to stack no more than 2 stake racks on top of each other.

As an alternative, panels may also be stacked on square timber. Two pieces of square timber should be inserted between stacks, so that they can be easily handled with a forklift truck.

Panels can also be handled manually by two people.



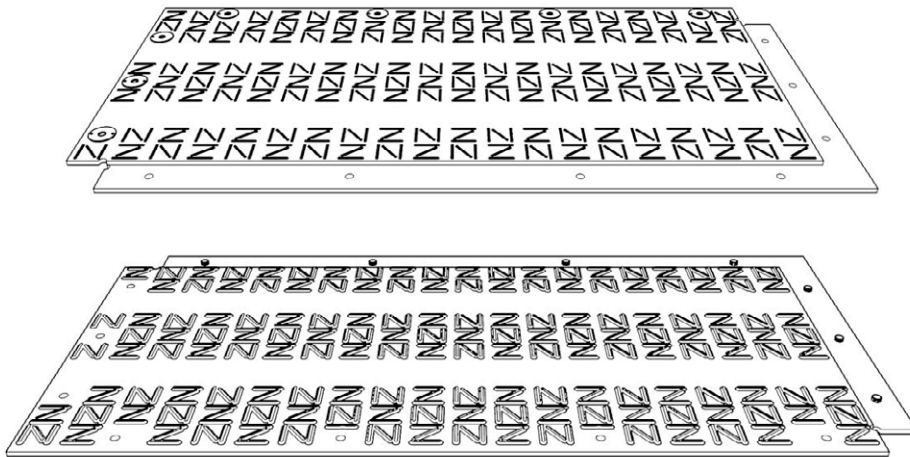
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The panel:

Material: Polyethylene PE500
Dimensions: 1000 mm x 2000 mm x 25 mm
Weight: 40.5kg

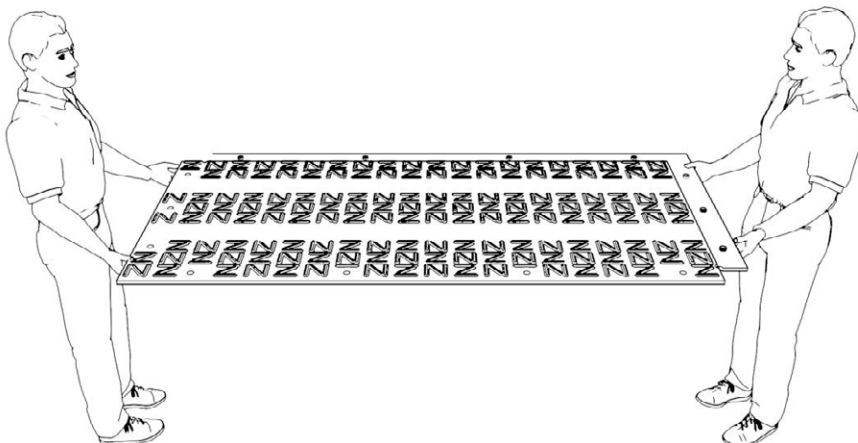
Eyelets to connect/screw panels together are located in the overlapping area on the sides of the panels (7 pcs.).

Panels can be used from either side. The upper side with its light profile is ideal for use by pedestrians on both sides. The underside has a strong profile and has been optimised to be used by construction vehicles.



Panel laying

Panels can be simply taken off the stack by two persons and transported to the required location.

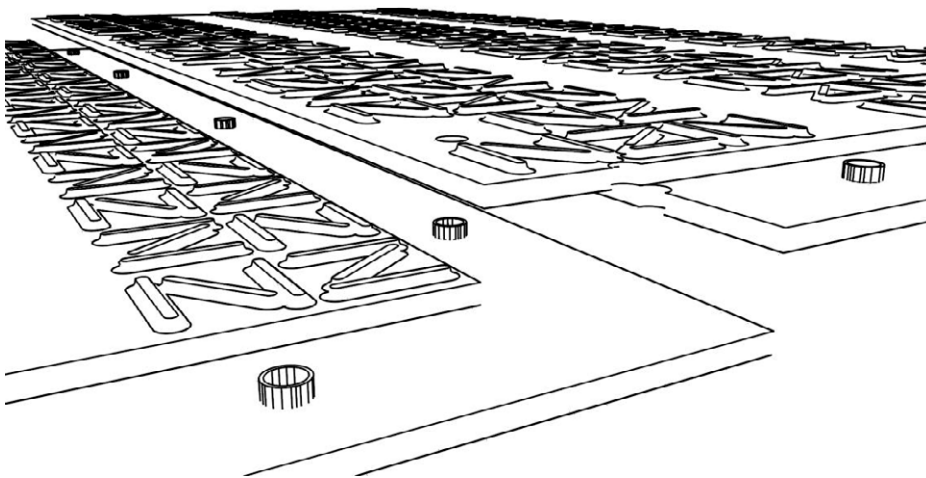


► MRS Medium - Operating Manual

Laying and mounting panels:

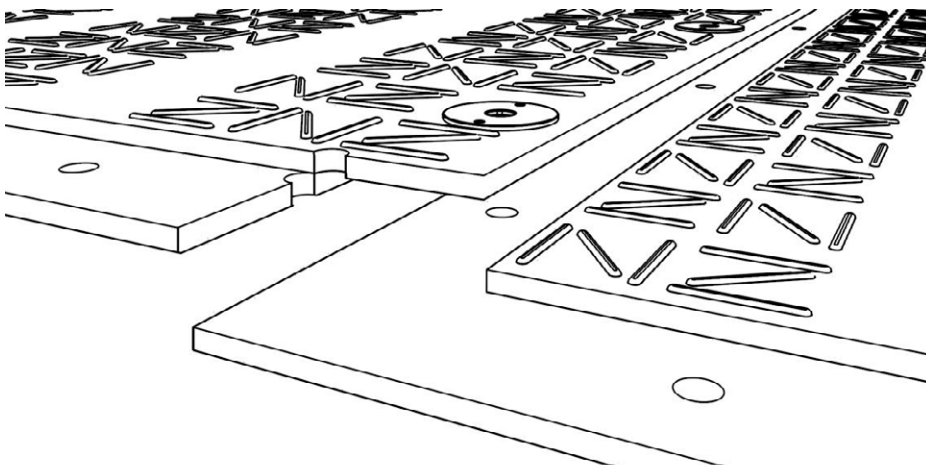
Simply lay panels on top of the floor area to be protected. No pre-treatment of the ground is required.

Panels can best be laid by two people working together.



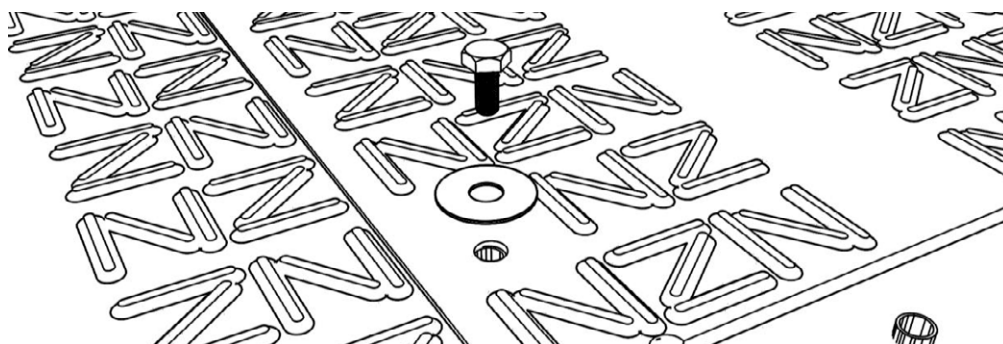
Care should be taken when laying the panels that panels have the same profile side facing up.

Insert the guiding eyelets into the holes provided in the overlap side to create an optimal working platform or a temporary road. Depending on the pressure on the panels, it is advisable to use between 2 and 7 screw connections.



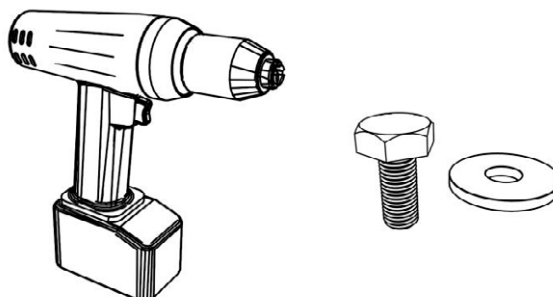
► MRS Medium - Operating Manual

Panels should be placed next to each other (on top of each other in the overlap region) onto the appropriate eyelets, and then joined together with an M-16 screw from above, with a washer inserted into the eyelet anchored from below.

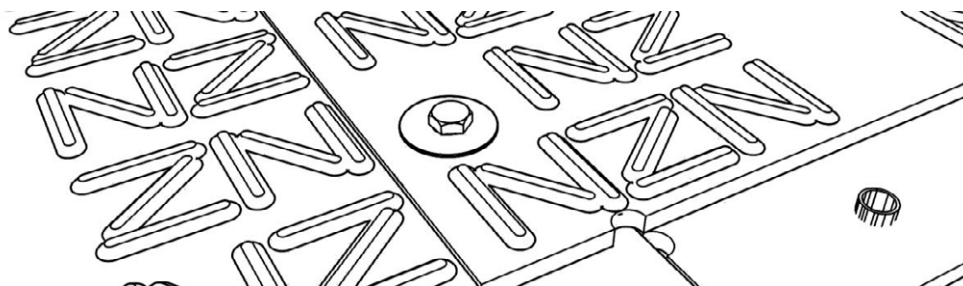


Fittings:

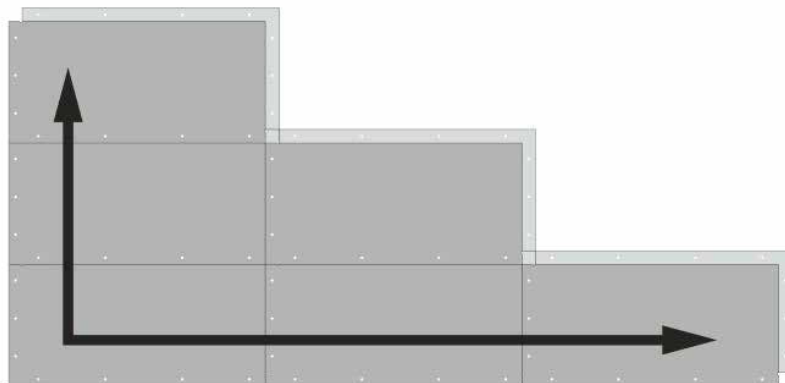
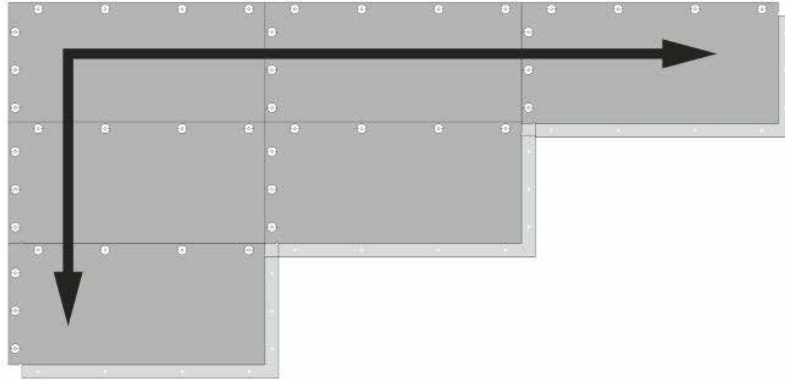
The following fittings are required for laying the panels:
4 x M16 screws
(washers optional)
2 x metal connectors



It is advisable to screw the panels together using the M16 screw and a cordless screwdriver. Alternatively, this can also be done with a hand ratchet. Both versions of the screw connection require a 24-mm socket to connect the panels using the 7 eyelets provided.



► MRS Medium - Operating Manual



General notes

Surface treatment:

Panels should be cleaned on both sides after use. Panels can be stored in the open air. However, panels should not be exposed to severe temperatures below freezing. No special chemical cleaners or tools are required to clean the panels. A high-pressure cleaner is ideal for cleaning the panels.

Use as a temporary access road

The panels are very well suited for use as a temporary access road in open country. Depending on the surface, the panels can withstand loads of up to 130 tons per m². The panels can be used with track vehicles. However, track vehicles should use chain guards whenever possible. Track vehicles should avoid rotating tracks in place, because depending on the pivot point and speed, panels may be torn apart at the screw connections.

Assembly

If the panels installed globally are relocated, the panels must be dismantled again.

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