

MaxiTrack Mat

1.0 General Information of the MaxiTrack

The MaxiTrack system is an innovative approach to temporary ground protection. The lightweight 40kg mats can be handled by two workers without the need for specialist lifting equipment or expensive crane hire. (Subject to site specific risk assessment). The mats are extremely heavy duty and incredibly strong, able to support huge loads up to 130 tonnes (Uniform Distributed Load).

Overlapping flanges provide maximum support, reduced slippage and mud suppression, with unique slotted joints to cope with heat expansion on large areas. MaxiTrack mats have reversible tread patterns for multi-use, with the unique SmartGrip on one side giving superior grip in all directions, and OctaGrip on the other featuring high performance octagonal lugs. MaxiTrack mats can be kept joined in fours, and craned into position as big 3.6 x 1.8 metre mats.

2.0 Specifications

Overall size	1900 x 1000 x 32mm
Nominal size	1800 x 900 x 23mm
Surface Area	1.62m ²
Weight	40kg
Fire rating	UL94 HB
Slip testing	BS7976 part 2

2.1 Deflection results

Tested on varying CBR ground conditions using a 300mm diameter steel platen with 6 tonnes load to simulate the pressure of an HGV wheel.

Ground CBR 11.35%: Deflection 7.71mm

Ground CBR 8.58%: Deflection 8.66mm

Ground CBR 4%: Deflection 9.46mm

3.0 Safety Information for MaxiTrack

- A risk assessment must also be carried out before any installation. It is the user's responsibility to assess the load-bearing capacity of the ground, and to only operate vehicles within the weight that the ground is capable of safely supporting.

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- PPE (safety gloves and boots) must be worn prior to the start of laying mats.
- The contractor or owner is responsible for pre-planning against what can happen and prepare for it.
- Before any usage, a ground and weather condition survey must be carried out in that particular region.
- The ground survey must include an in-depth research consisting of any underground utilities such as gas pipes, water pipes and electrical cables. The utilities must be more than 1 metre below ground level to prevent any damage.

4.0 Ground Preparation

- For installations on soft ground that will last for several weeks, it is advisable to use a geotextile membrane underneath the mats to help suppress mud.
- For installation over tarmac or paving, use an underlay membrane such as rubber crumb sheeting to protect the surface from marking by the tread lugs.

5.0 Installation

- Join mats using the special connector bolts (SELF-ALIGNING SHOULDER BOLT), taking care not to get them cross threaded.
- When operating as a team of three, with two persons placing the mats and one tightening the bolts, the person tightening may not be able to keep up with those laying. However, if you install just the three corner bolts on each mat, the whole team can then go back over the trackway filling in the missing bolts.
- The mats can be half staggered (stretcher bond) or joined at 90° to suit the required site layout.
- If the mats are installed on sloping ground, anchor pins may be used to stop them migrating downhill with use. **WARNING! Ensure there are no buried services before hammering in anchor pins.**
- Connectors will need repositioning depending on which side the mats are.
- WARNING!!!** After installation, bolts will protrude about 13mm on the underside.



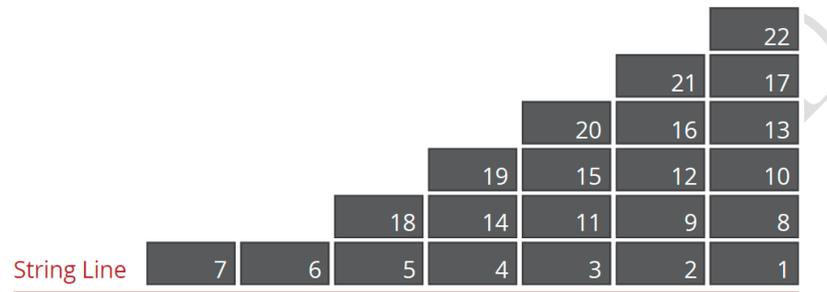
6.0 Uplifting of the MaxiTrack

1. The Speed Brace tool (not supplied) may be configured with the brace at right angles to the extension shaft, thus providing extra leverage for undoing tight bolts.
2. **Please ensure all bolts are returned, as missing ones are chargeable.**
3. Uplift the mats working backwards from the far end of the trackway.
4. Strap the mats securely on their pallets in 25's, ensuring that the pallets are standing on firm ground that the collecting vehicle can freely access.
5. Please ensure that the mats are all packed and ready for collection ahead of the collection time

14	13
12	11
10	9
8	7
6	3
5	2
4	1

*Order of installation
for roadways*

7.0 Configuration for Roadways



*Order of installation for car parks and pad areas,
working uphill from the bottom of the slope*

1. Mats should be laid in straight runs.
2. Place your first mat with the short edge against the right hand side of the roadway and the long edge with the underlapping lip pointing away from you.
3. Place the second mat with the overlapping flange over the first mat's underlapping flange and connect together with the special shoulder bolts.
4. Check that you are on course and install a third mat in the same manner.

5. This has now established your roadway in a straight direction, and you can now start the second row by joining mats to the short edges of the first three mats.
6. Thereafter, mats may be placed side by side as you build out along the length of the roadway.

8.0 Configuration for car parks and pad areas

Careful planning and preparation will have a huge effect on the durability of your temporary car park. Remember that the rain that falls on the mats has to go somewhere. Ideally, you do not want it to run into the gaps between mats as it will cause mud to ooze out. If possible, select a slightly sloping area for your car park. Build up any low spots with infill, and cover the area with a layer of woven geotextile membrane.

Set out a string line along the lower edge of the pad and install the first row of mats in a straight line against this, with the underlapping flanges away from the string line.

Then install the first two mats of the second row. Then install the first mat of the third row, and from then on you can build outwards diagonally, working your way along the initial row.

Take care to ensure mats are carefully aligned before bolting together, to avoid getting the bolts cross threaded.

By working from bottom to top of the slope, the overlapping flanges will help to shed the rainfall downhill over the top of the mats rather than down between them, similar to the tiles on a roof.

Ensure you have adequate provision for dispersing the water run-off at the bottom of the pad area.

9.0 Cleaning & Storage

MaxiTrack can be cleaned using a powered pressure washer.

Do not use machine buckets for cleaning as this will scrape and damage the mats and bolts.

Mats must be kept in a secure location after use.

MaxiTrack mats are not suitable to use for bridging purposes.
Marwood Group always recommends that a site survey and a full risk assessment must be carried out including loading and ground conditions before using MaxiTrack. It is the end user's responsibility to make sure the mats are suitable for their intended use.