

PROTECT – BE SAFE

Pro-X Track Mats

HEAVY DUTY ROAD MATS
PROVIDE SAFE, TEMPORARY
ACCESS WORK AREAS AND
PROTECTION OVER SOFT
GROUND CONDITIONS AND HARD
SURFACES. WIDE RANGE OF
PROJECT APPLICATIONS.
EASY TO INSTALL.





Pro-X Track Mats are manufactured in **EUROPE** by a Slovenian company with more than 40 years' experience in the manufacture of technical plastics. We have factory plant and equipment that has been dedicated to making extreme duty temporary road access mats since 2009.

KEY BENEFITS

- Fast and easy to install using standard M16 bolts
- Install roadways, working pads, parking and turning areas
- Safe movement and access for vehicles, equipment and people
- Mats gently flex with ground contours – no ground preparation required
- Prevent severe rutting and damage – protect sensitive habitats and avoid ground reinstatement costs
- Prevent vehicles and equipment from getting bogged down - keep your project running and avoid delays
- Flexible but tough and durable mat for long life use
- Customer logo option
- Low theft risk compared to aluminum and steel mats
- Long life and 100% recyclable at end of life

KEY INFORMATION AND FEATURES

- One piece compression-moulded, high-performance recycled thermoplastic material resistant to chemicals and oil and is UV protected
- Each mat has two different, excellent traction surfaces for safe movement of vehicles in dry or wet conditions.
- One surface has the market leading design for safe vehicle operation and the second surface is designed for steel tracked equipment operation.
- Steel-reinforced lifting points



SAFETY AND PERFORMANCE



Pro-X Track Mats

- surface design is based on tire manufacturer traction research and has been independently tested to demonstrate superior grip for vehicles compared to other mats.
- Prevent vehicles and workers getting bogged down – avoid costs associated with project delays.
- Avoid ground reinstatement costs.
- Cannot puncture and take on water or contaminants.
- Easy to clean after use.



General information Pro-X Track Mats			
Overall Dimensions	3000 x 2500 mm, OR resized 3000 x 2450	Handling and Installation	Mat incorporates lifting points. Can use lifting hooks, slings, eye bolts, forklifts or vacuum lifting equipment
Thickness	Total 46 mm, Core 38 mm	Connection	Using standard M16 bolts with steel or flexible straps. Steel reinforced connection points.
Useable Surface Area	7,5 m ²	Recycling	100% recyclable
Weight	295 kg	Safety	Surface structure designs provide excellent traction for vehicles
Material	Recycled HDPE	Environmental	No liquid absorption and chemically inert. Easy to clean/decontaminate
Colour	Black (standard), other colours optional subject to minimum order quantity	Load bearing capacity	Ideal for supporting vehicles and equipment up to more than 150 tons*
Transport	Open top standard high cube 40' container 66 mats, Mega Truck standard EU 75 mats	Fire Rating	UL 94HB

* Load bearing capacity is dependent on ground conditions.



Pro-X Track Mats Benefits

Pro-X Track Mats provides many user benefits:

- Support vehicle and equipment **weights up to 150 tons** (subject to ground conditions)
- Easy and quick to unload using lifting equipment or forklifts.
- Fast and easy to install using a choice of connection options.
- Mats gently flex with ground contours – no ground preparation required.
- Can be used on a wide range of different ground conditions and soil types to prevent vehicles and site personnel getting bogged down.
- Safe movement and access for vehicles, equipment and people.
- Prevent severe rutting and damage – avoid ground reinstatement costs.
- Keep your project running to avoid delays and down time costs.
- Flexible but tough and durable mat for long life use.
- Low theft risk compared to aluminum and steel mats.
- Sustainable – made from recycled material that is 100% recyclable

ENVIRONMENTAL AND CORPORATE SUTAINBILITY

Pro-X Track Mats can be used to help protect the environment and also support corporate sustainability objectives:

- Protecting the environment – the mats help to reduce ground damage and protect habitats.
- Supporting Health & Safety through safer movement of vehicles, equipment and project workers.
- Contribute to accident rate reduction and lost time incidents.
- The materials used to make Pro-X Track Mats are 100% recyclable at end of life.



TRANSPORT, HANDLING, STORAGE, CLEANING & MAINTENANCE

At depots and on site it is essential that:

1. Personnel involved in the transport, handling, installation, storage, cleaning and maintenance of Pro-X Track Mats should wear appropriate Personal Protective Equipment.
2. All Health and Safety requirements are complied with.

Transport

Pro-X Track Mats leaves the Slovenian factory for delivery strapped on pallets of 5 mats (gross weight including pallet = 1525kg). The mats can be un-strapped at a depot or onsite before first use.

- It is good practice to ensure that mats are carefully stacked and aligned for transport. The
- mats must be safely loaded / unloaded using appropriate equipment (e.g. forklift, crane) of the required lifting and load capacity. As a general guide it is recommended that a maximum of one pallet of 5 strapped mats or 1 unstrapped mat is lifted at a time. Use appropriate straps
- or other fixing methods to safely secure the mats during lifting and transport.
- Ensure compliance with international, national and regional road directives and regulations (in particular maximum authorized dimensions and weights).



Lifting and Handling

New mats are delivered on pallets from the factory – 5 mats securely strapped to each pallet. The straps can be removed after unloading at a depot or just before first use on site. The pallets, strapping and any other packaging should be disposed of responsibly.

The mats should be loaded / unloaded by fully trained personnel using the appropriate equipment for safe lifting and moving of the mats.



DEPLOYMENT AND INSTALLATION

Installation Tools

The M16 bolts supplied with the connectors can be tightened using a standard combination / socket / ring spanner or power tool.



Connection

For safe installation some form of connection, fastening or pinning of the mats is **ALWAYS** required. For road / tracks each mat needs a **minimum of two connectors**. Using connectors will help prevent mat spin or unwanted movement. Each standard Pro-X Track Mat has 10 connection holes (4 x corner and 6 x edge) providing options for installation configuration.

Corner Connection

There is a zinc plated steel reinforced connection point at each corner. This comprises two plates bolted together through the mat core. One of the plates has a welded boss into which an M16 bolt can be fastened. The connection process is summarized below.



1. *Adjacent mats installed ready for connection.*

2. The metal connection strap is placed over the corner connection hole



3. The first bolt is inserted and tightened by hand. A hand power tool with socket can be used to tighten the bolt with washer.



4. The second bolt with washer is inserted through the connector strap and the bolt tightened by hand.



5. Connection completed.

FLEXIBLE connector as Option used in un-even surfaces



Edge Connection

In addition to the corner connection points there are four zinc plated M16 edge connection points – two positioned along each 3m side and one along 2,5m side of the mat



These provide additional connection points to help ensure a more even road surface on uneven ground (prevents or reduces vertical displacement between adjacent mats – also reduces risk of trip hazard).



The steel connector strap is aligned over the connection points



Bolts are inserted and tightened as described above for Corner Connection.

Installation

Experienced operators involved in the installation of heavy duty temporary road mats will have their preferred methods of handling and installing mats.

- A minimum crew of two is recommended for installation – to transport mats to the installation area and then to position them for connection.
- increased efficiency and speed for large projects, or where ground conditions are more difficult, increased crew sizes can be used.
- On soft or waterlogged ground the equipment and crew should work from on top of the mats.



1. Inserting Lifting Attachments

Insert lifting attachment into each of the four lifting points in the mat. For safety the four lifting points should always be used.

Ensure that the lifting chain is rated for the weight of the mat including any factor of safety.



2. Mat Lifting

Carefully lift the mat to swing into position on the ground.



3. Mat Positioning

Place the mat adjacent to mats already positioned on the ground. No ground preparation is usually needed.

Mats can be aligned to form single / double roadways, working pads or turning areas as needed

Note – when installing working pad areas it will be necessary to release the lifting hooks nearest the already installed mats before using attached chain / hooks or pry bars to move the mat into its final position before connection.



4. Preparing for Connection

As each mat is placed on the ground it should be connected to the adjacent mat. Mats should never be used unless properly fastened – this helps prevent hazards and damage that could result from unconnected mats as they flex upwards when vehicles pass over.

Important – a gap of 10mm should be left between mats before connection. This will allow for adjustment as mats expand when temperatures increase.



5. Connection

Where mats are installed on reasonably level ground the rigid steel connector straps should be used. Each strap is fastened using 2 x M16 hex head or dome head bolts.

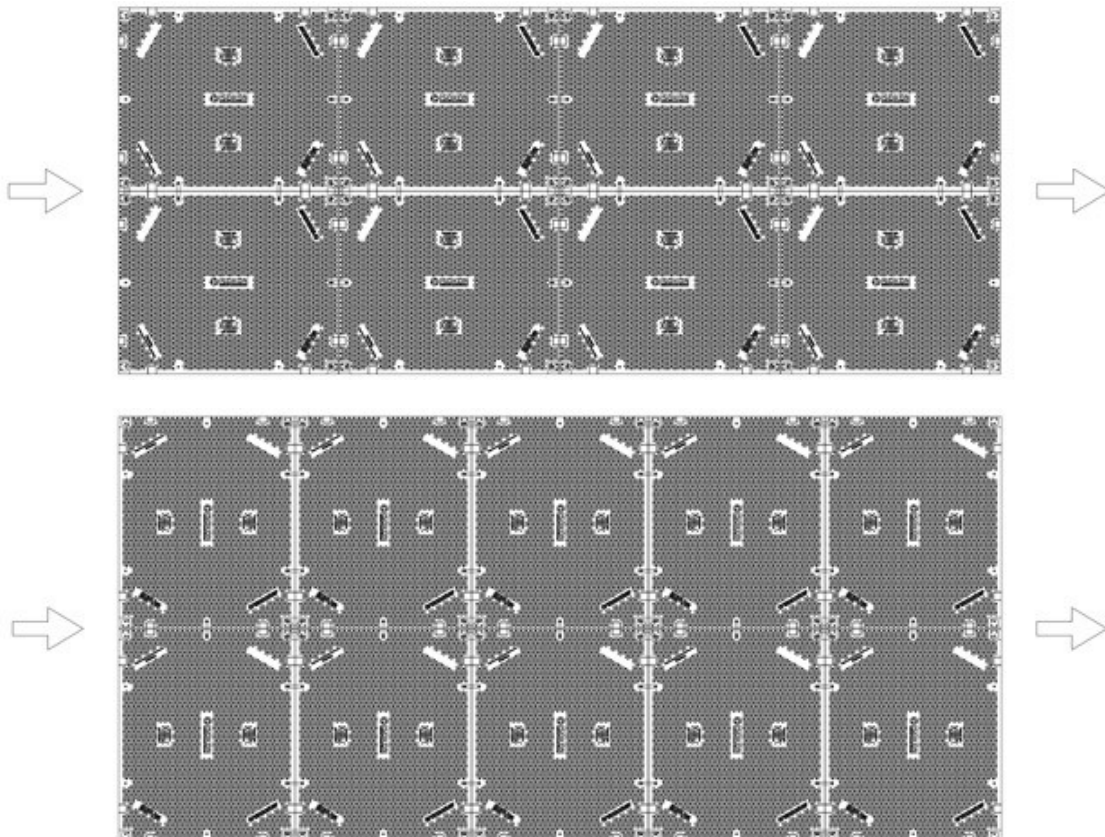
On uneven ground it may be necessary to use the weight of a vehicle to align adjacent mats for connection.

Important –maximum torque of 20Nm to tighten the bolt should not be exceeded.

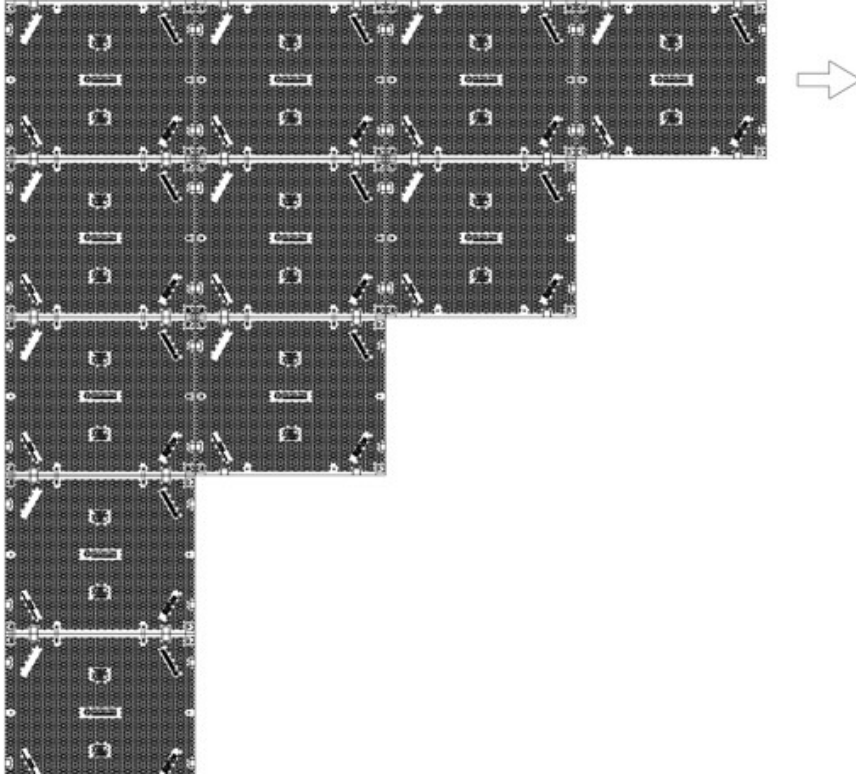


Working Pad and Turning Areas

Pro-X Track Mats can be installed and fastened together to cover large surface areas to be used as work sites or pads. Once you have calculated the required area Installation commences and follows the sequence as shown below. Begin by laying one mat at the outside corner of the proposed site, nearest to the access road. The mat should be aligned with the edge of the site so that the pad, when constructed, covers the required area. By laying the mats from the corner outward, you will be able to work on the matted surface and have more room to maneuver.



Turning corners for short and long vehicles can be formed using the mats. Longer vehicles require a wider turning area and knowledge of the path footprint (refer examples below) can be used to inform the mat configuration required.



Removing Pro-X Track Mats

1. Unfasten and remove the M16 bolts to remove the connector straps and to release adjacent mats. Bolts and connectors should be stored for the next project.
2. Mats are lifted for stacking on pallets (to be strapped) or onto trucks before being securely strapped for safe transport to the next project or back to depot.
3. A forklift or other suitable equipment is used to lift the mats for stacking / storage
4. As always the correct equipment should be used to ensure safe lifting and handling of the mats.

Using Geotextiles

On sites that are particularly wet or muddy it is recommended that a geo-textile material is first rolled out over the ground before mat installation commences. Geotextile can provide a cost-effective barrier between the mats and the ground preventing water and mud being pumped up onto the mat surface. In turn this reduces the need for cleaning mat surfaces during (and after) the project and provides a safer working surface.

OPERATING GUIDANCE AND LIMITATIONS

Safe Speed

Pro-X Track Mats have been designed for the safe movement of worksite vehicles, equipment and personnel. Although the mats will provide temporary roadway access it is important to understand that the mats will not behave in the same way as a permanent road surface. It is therefore necessary to observe strict control over the speed of vehicles using the mat system. Subject to project site safety requirements it is recommended that vehicles and equipment **must not exceed 10 kph**.

Steel Tracked Vehicles and Equipment

As already noted steel tracks and equipment can damage the thermoplastic material used to make the Pro-X Track Mats (this applies to any plastic / composite mats). However, steel tracked vehicles **can be used** with care.



Ensure that the mats are installed with the 'steel tracks' surface uppermost:



Plan ahead for the movement of steel tracked vehicles – it is better to have the vehicles moving forwards and backwards in straight lines with-in the area that they need to work.

If turning areas are required, then turning movements should be under-taken at very slow speed.

Inspect for significant damage as soon as the steel tracks are used. Minor surface damage is to be expected. However, should gouge marks into the mat core be evident then vehicle speed and/or mode of operation should be addressed to prevent any further significant damage.

For further information, please contact



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