

LibertyMat[®]



Heavy Duty Temporary Access Mat

Recommended Installation, Handling & Storage Guide

START  TRAFFIC 



- Fast and easy to install
- Unique chevron traction[®] surface
- Low profile pedestrian surface option available
- Fast temporary access and working areas
- Low transport costs
- Minimizes property, historical and environmental damage
- Supports health and safety objectives
- Reflective markings for night safety - optional
- Connection options for different ground and equipment
- Tested to 80 tonnes weight loading*
- Designed and manufactured in the UK, Europe and the USA

Handling, Placement & Connection



1. LibertyMat® Handling

When installing LibertyMat®, appropriate safety wear must be worn and appropriate warning signs must be displayed

2. LibertyMat® Installation

With the correct equipment on site LibertyMat® can be installed fast and easily by 2 people. Different connection methods are available.

3. LibertyMat® Placement

Mats are connected together to form temporary roadways or work pads. If installing on inclines or slopes then U-Pin connectors can be used to help prevent slippage and movement of the LibertyMat®.



4. LibertyMat® Connection

LibertyMat® has connection points at each corner and mid way on the long sides, plus hand-holds on all sides for ease of installation.

To install, simply use 2 or 4 way, 'flex' or a choice of fast fit and metal connectors to suit various applications and ground conditions.

Standard 2 way / 4 way Urethane connectors -

100% Urethane connector. Inserted from below, these connectors are best used where longer term access or work pad applications are required.

M10 Bolts screw down from above.
DO NOT OVERTIGHTEN BOLTS

Metal connectors -

Used separately or in conjunction with 2 / 4 way connectors to create a stronger connection when using heavy or tracked equipment or when installing on inclines or slopes.

2 way Urethane ▶



4 way Urethane ▶



4 way Urethane ▶



Metal Connector ▶



Flex Connectors -

Installed using the same process as the 2 way, the flex connector should be used where there is highly undulating ground, allowing ease of installation and providing a firm, yet flexible connection.

Flex Connector ▶



Fast Fit Connectors -

Used for short term projects or where the speed the of installation is of the essence. The fast fit connector is suitable for light to medium weight vehicles or equipment. The connector is simply pushed through the holes and then underneath the mat.

Fast Fit Connector ▶
- Installation



U-Pin Connectors -

When installing the LibertyMat® on inclines or slopes U-Pins MUST be used in addition to the connectors. Pins are placed through the hand cut-outs or connector holes and inserted into the ground, angled at the same direction as the slope.

Fast Fit Connector ▶
- Inserted



U-Pin Connector ▶



Health & Safety - Connection

Like all temporary access, roadway and ground protection solutions, it is strongly advised that LibertyMat® be **CONNECTED AT ALL TIMES** with one of the recommended connectors.

5. EuroMat® - Steel Tracked Vehicles

For steel tracked vehicles it is recommended that vehicles only traverse in a forward and reverse direction and that thick rubber sheets be used to cover the LibertyMat®

(please note that this is a requirement where LibertyMat® is on rental– clause 10.4 of Zigma® Ground Solutions' Terms & Conditions)
Zigma® Ground Solutions Ltd will not accept responsibility for damage to LibertyMat® caused by steel tracked vehicles.

LibertyMat® - Applications

LibertyMat® can be installed directly onto the ground or surface. Alternatively a membrane can be placed underneath the mat which helps prevent water coming up between the LibertyMat® in wet weather.

Typical applications include:-

- Temporary roadways - single or double width
- Pedestrian walkways
- Events and festival venues
- Temporary car parking areas
- Work pads and storage areas
- Ground protection for delicate or sensitive surfaces such as sports fields
- Construction
- Landscaping

Suitable for use with rubber tracked vehicles ▼



Load bearing up to 80 tons* ▼



Temporary roadways ▼
Temporary car parking ▶



Laying double width access trackway ▶



Protection of sensitive ground at events ▶



Storage and Handling Guide

1. Stacking and storage

LibertyMat® should be stacked on double sized pallets with no part of the LibertyMat® extending over the pallet edge. LibertyMat® should be stored to a maximum of 50 mats per pallet. Pallets can be stacked on top of each other. At every hire project the LibertyMat® needs to be stacked upside down to allow the LibertyMat® memory to reform the mats original shape. Where possible the LibertyMat® should be stored inside, alternatively they need to be stored in the shade or covered over.

2. Transport

Each pallet should be double strapped and/or held firm with industrial stretch film wrapping when being transported. LibertyMat® should be loaded / unloaded by fully qualified fork lift drivers.

3. Cleaning

No specialist equipment is required to clean LibertyMat®. They can be cleaned using a pressure washer and cold water. If heavily soiled, excess mud should be brushed off before being pressure washed.

4. Installation

This product is made from thermoplastic material that expands or contracts according to increases or decreases in temperature. Allowance should be made for this during installation by leaving sufficient gaps between adjacent mats and by not over-tightening connection bolts

5. Health & Safety

- Protective clothing and gloves should be worn when handling LibertyMat®.
- Steel toe cap boots should be worn when moving LibertyMat®.
- Hi-visibility jackets should be worn throughout the installation and de-installation process and at all times in the storage depot.
- Correct lifting procedures should be adopted when handling / lifting LibertyMat®. It is advised that each LibertyMat® is moved and lifted by a two man team.

6. Speed limit

LibertyMat® is designed to give safe movement, ground access and protection for plant and vehicles moving over the mats at a **MAXIMUM SPEED OF 5 mph**. This is a strict speed limit **which should be observed at all times**.

The information contained herein is based on current knowledge and does not therefore guarantee certain properties of LibertyMat®. This guide must be considered in conjunction with Zigma® Ground Solutions' standard Terms & Conditions particularly, but not limited to, those Terms & Conditions relating to use, installation and Zigma® Ground Solutions' Limitation of Liability.



LibertyMat® specifications

	Thickness (Typical Average)	Dimensions (LxW)	Weight per mat
LibertyMat® HD	0.5inch (12mm)	7'11" x 3'11" (2410 x 1200mm)	77.2lbs (35kg)
Material	Premium recycled or virgin High Density Polyethylene (HDPE)		
Colors available	Black – recycled HDPE. Choice of colours – Virgin HDPE		
Connectivity	Standard Urethane connectors – 2-way and 4-way - for longer term connection. Steel connectors for heavy and tracked equipment and use on inclines. Fast fit connectors for fast installation. Flex connectors for undulating ground. Metal U-Pins for inclines and slopes.		
Optional extras	Non slip reflective markings and 'cats eyes' for night safety.		
Environmentally friendly	Weather proof, water and chemical resistant, usable in sub-zero temperatures. High Density Polyethylene is resistant to acids, alkalis and solvents.		
Customization	Corporate name and contact details available. Minimum order quantity applies.		

*Tested by National Physical Laboratory, UK. Load performance depends on ground conditions as well as the weight and types of vehicles and plant. Zigma® Ground Solutions Ltd. its agents or employees are not liable for any damage to existing ground or property through the use of LibertyMat®.

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LibertyMat® are available for worldwide sale and rental through our official distributors and agents - please contact us for further details.

The sale or hire of all temporary access mats are subject to Zigma® Ground Solutions' standard Terms and Conditions. These are available from our website www.zigmagroundsolutions.com or by telephoning our sales office, details can be found below.

US Sales: Tel: +1-800 671-9662

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