

# Economat MB™

## Multipurpose Board for Builders and Event Organisers



- » Fast and easy to install
- » Traction surface for safe vehicle and pedestrian use
- » Made from 100% recycled Low Density Polyethylene (LDPE)
- » Re-usable multi-use board
- » Safer, cost effective and lightweight alternative to construction plywood
- » Connection options for different ground conditions and equipment
- » Resistant to degradation caused by weather conditions

# Economat MB™

## Lightweight MultiBoard



### Cost effective alternative to plywood

Economat MB™ has been specifically developed as an effective and efficient alternative to construction plywood providing a low cost, easy to deploy and reusable temporary access and ground protection solution.

Reducing the risk of slippage or falls and injury from splinters, together with the short lifespan and increasing costs of plywood and its environmental disposal, makes Economat MB™ a safer and more economic alternative for builders and outdoor events.

### Reusable long term advantages

As with plywood, Zigma®'s Economat MB™ can be used as a tough multi-use construction board; mixing of cement, storing spoil, creating construction site walkways or protective up stands – jobs where plywood would typically be used.

However, Economat MB™ delivers enhanced performance, health and safety benefits compared to construction ply.

Economat MB™ is resistant to adverse weather making it ideal for use in snow, ice, frost or damp conditions. Made from 100% recycled low density polyethylene (LDPE), Economat MB™ is a multi use board and can be re-used time and again providing considerable long term cost savings over plywood.

### Fast efficient installation

At just 32kg, Economat MB™ is easy to handle and simple to deploy. With a range of connection options, Economat MB™ can be joined to form roads, walkways, work pads and storage depot areas and with the option of a traction, or smooth surface, Economat MB™ is ideal for event flooring.

\*Compression tested at National Physical Laboratory, UK

# Connection Systems

## Standard 2 way / 4 way Urethane Connectors

Made from 100% Urethane, 2 and 4 way connectors are inserted from below and attached via M10 bolts. Connectors can be strengthened with a metal strap for projects where heavy vehicles or equipment are used, or on inclines or slopes



## Fast Fit Connectors

Used on short term projects where speed of installation is of the essence. The connector is simply pushed through the holes and then underneath the mats



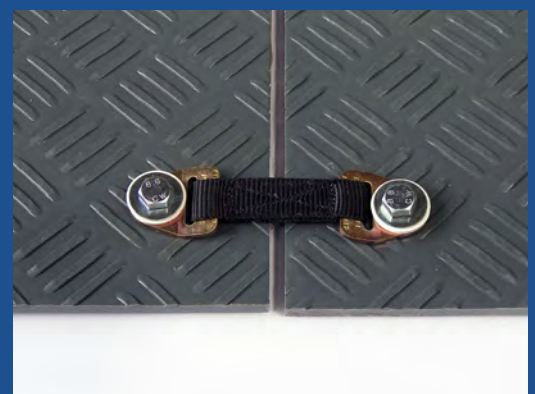
## Flex Connectors

Installed in the same way as 2 or 4 way connectors the 'flex' connectors should be used where there is highly undulating ground.



## Metal U-pin

Metal U-pin connectors should be used in conjunction with other connectors when Economat MB™ are installed on inclines or slopes



## Applications

- » Multi use construction board
- » Events and pedestrian walkways
- » Temporary roadways
- » Spoil and waste storage
- » Dry storage for building materials
- » Bulk aggregate storage
- » Protective upstands
- » Protection of ground or surface against spillages

# Technical Product Information

For use as a technical guide only

## EconomatMB™ MultiBoard Temporary Access and Ground Protection Mat

Material:	100% recycled Low Density Polyethylene (LDPE)
Size:	2410mm x 1200mm x 11mm
Weight	32kg

	Unit	LDPE
<b>Mechanical Properties</b>		
Tensile strength	MPa	5 - 25
Flexural strength	MPa	25 - 28
Flexural modulus	MPa	250
Charpy Notched Impact Strength	kJ/m <sup>2</sup>	5 - 6
Poisson's ratio	(theoretical)	0.35 - 0.38
<b>General Properties</b>		
Density	kg/m <sup>3</sup>	<940
Water absorption	%	0.015
Thermal expansion	x10 <sup>-6</sup> K <sup>-1</sup>	100 - 200
Thermal conductivity	W/m.K	0.33
Specific heat	J/kg.K	1900 - 2300
Melting temperature	°C	120
Service temperature	°C	-30 - +85

## Health and Safety Information

### General

Critical hazards to man and environment	None
Environment	The disposal of the material presents no danger regarding toxicological or ecological considerations. Due to low water solubility, bio-availability unlikely.
Solubility in water	Insoluble
Regulatory	Not classified as hazardous under transport regulations.

### Safety Properties

Melting point	Crystalline Melt Temperature 135 - 145°C
Ignition temperature	> 360°C
Thermal decomposition	> 390°C
Stability and reactivity	No possibility of degradation under normal circumstances. Degradation will only occur above the decomposition temperature.
Toxicology	Not harmful to health under normal conditions.

**zigma**<sup>®</sup>  
**Ground Solutions**  
 The fast and safe way forward

EconomatMB™ is available for worldwide sale or hire through our official distributors and agents - please contact us for further details.

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\*Load performance depends on ground conditions as well as the weight and type of vehicles and plant. Zigma® Ground Solutions Ltd, its agents or employees are not liable for any damage to existing ground or property through use of TuffTrak®. 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.