

## ALUMINIUM TRACKWAY PANELS

**Aluminium Trackway Panels have been designed for extreme site conditions and to facilitate construction vehicle access in adverse conditions.**



The Aluminium Trackway Panels have been manufactured with several layers of extruded aluminium and are cross-bonded at the top and underside of the panel to offer high levels of traction. The top sides are textured to prevent slipping, allowing safe access for pedestrians, wheelchairs and cars - ideal for building temporary roads, walkways, landing pads, work platforms and more.



### Specifications

Size:	3m [L] x 2.5m [W] x 53mm [D] with 0.25m section
Weight:	265Kg
Load:	Up to 12 tonnes per axle dependant upon sub-surface and panel configuration
Material:	Aluminium
Colour:	Grey

### Key Features

- ✓ Temporary work platform or roadway
- ✓ Ensured safety and operational efficiency for pedestrians and vehicles
- ✓ Versatile for uneven or soft ground
- ✓ Feature an aggressive underside, ideal for displacing surface water
- ✓ When installed face up, they provide exceptional traction on steep inclines
- ✓ Configuration options allow them to be laid out in straight paths or at right angles and individually locked into place.

### Budget Options

Perhaps you don't have the budget to purchase outright, we always have a variety of solutions for you.

- Hire for short or long term
- Buyback
- Lease or Finance

### Top Tip

They are also known as Aluminium Roadway Panels or Aluminium Access Matting,

As an alternative option, please take a look at our [Hardwood Timber Bog Mats](#) or [Steel Road Plates](#).

### Contact Us

 [elite-gss.com](http://elite-gss.com)

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Events / Parking  
Grounds



Construction  
Sites



Agricultural &  
Farming



Temporary  
Roadway/Car Parks



### In-Depth Specifications

Product dimensions (Width x Length):	3000mm x 2500mm (+/- 2mm)
Usable area when joined (Width x Length):	3000mm x 2400 mm = 7.2sqm (+/- 5mm)
Box Section Properties:	Width of section = 250mm Depth of section = 53mm (+/- 5mm)
Weight:	265kg per panel

Weight Loading:	Point Load = 250 tonnes Gross Train Weight = 1,000 tonnes over ground with 2% California Bearing Ratio Up to 12 tonnes per axle dependent upon sub-surface and panel configuration  Please seek further advice from Elite GSS if weight exceeds 12tn/axle
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### Mechanical Properties and strength calculations

**Load calculations 1 - 1 plank, 3000mm long, simply supported at the ends, point load of 900Kg at centre.**

Deflection = $WL^3/48EI$	Where $W = 900Kg \times 9.81 / 1000 = 8.83KN$ $L = 300cm$ $E = 6900Kn/cm^2$ (Modulus) $I = 91.29cm^4$ (Second moment of area) $Y = 2.94cm$
Therefore:	Deflection = $8.83 \times 300^3 / 48 \times 6900 \times 91.29 = 7.885cm = 78.9mm$ Bending moment = $WL/4 = 8.83 \times 300/4 = 662.25M$ Bending stress = $MY/I = 662.25 \times 2.94/91.29 = 21.33KN/cm^2 = 213.3N/mm^2$

### Mechanical Properties and strength calculations

**Load calculations 2 - 1 plank, 3000mm long, simply supported at the ends, uniformly loaded along its length with an 1800Kg load**

Deflection = $5WL^3 / 384EI$	Where $W = 1800Kg \times 9.81 / 1000 = 17.66KN$
Therefore:	Deflection = $5 \times 17.66 \times 300^3 / 384 \times 6900 \times 91.29 = 9.86cm = 98.6mm$ Bending moment = $WL/8 = 662.25M$ Bending stress = $MY/I = 662.25 \times 2.94/91.29 = 21.33KN/cm^2 = 213.3N/mm^2$

## Need to Natter?

☎ 0800 622 6838

🌐 elite-gss.com

📘 News, insights and events

🐦 Product reviews and offers, answered questions and discussion tips

📌 Shared business and industry information

📺 'How to' use our products, installations and vlogs



## Additional information

📄 **Technical and Installation Guide** - coming soon

📄 **Elite Products Brochure**

**We advise not to use Steel Tracked vehicles with any composite mats unless pre-authorised and agreed beforehand. Traversing and aggressive movement on the mats may cause damage to them and the connectors, and this will be the sole responsibility of the customer and user of the mats.**