



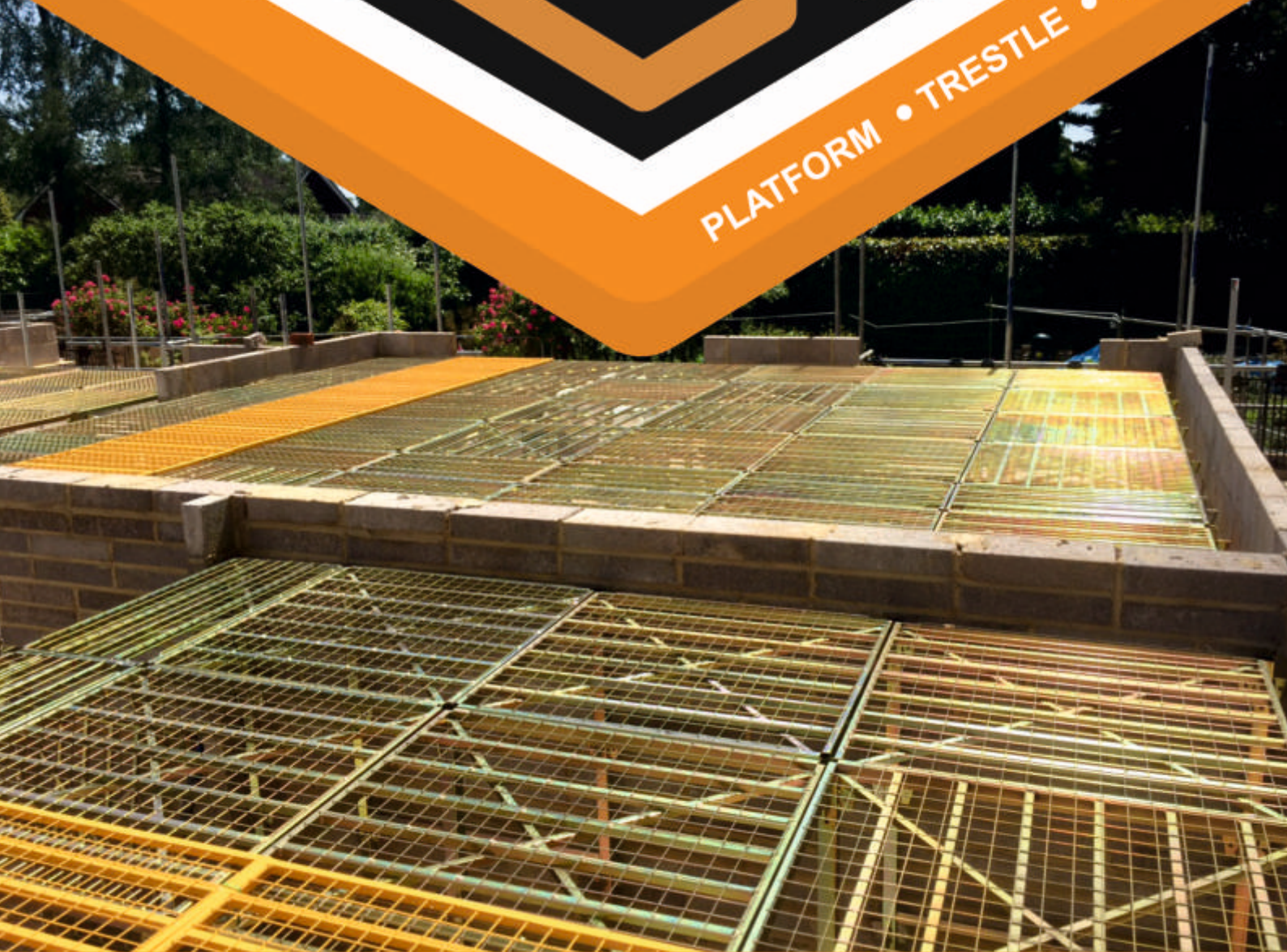
# G-DECK

## LOAD DECK SYSTEMS

Patent Pending EP12791225.1



PLATFORM • TRESTLE • TOWER



The G-Deck load deck system is a patented 3 in 1 multi-functional high strength low cost trestle/access platform/tower which is quick to erect, durable and flexible enough to meet your site access needs. Safety is a priority and G-Deck has been subjected to stringent testing and analysis to prove its load carrying capabilities.



The G-Deck load deck system is a flexible access decking system designed to meet a variety of end user needs. The system provides an integrated working platform with handrail option which can be erected at a range of heights from 0.8m up to 3.4m. The deck has been shown to accommodate imposed loads up to 5.9kN/ m<sup>2</sup> or 590 Kg/ m<sup>2</sup> which provides for a wide range of uses on site.

With options such as handrails, spring access gates, and being self-supporting, the G-DECK system really is a market leader in innovation.

The corrosion protection system enhances durability and enables G-Deck to withstand the weather, providing an extended service life without any reduction in its strength.



## G-DECK passed a drop test from 3 metres in height with a 150kg



Report number TES000380TR-1: LDS

### Impact survey to G deck anodized modular platform systems

**Item description:** : *Fabricated open mesh deck panels, approx 1000mm<sup>2</sup>. Outer frame constructed of 20mmx20mmx1.2mm thick square hollow section, material grade not specified, each corner terminating with a shark fin type location plate, 3mm mesh infill 50x50 square. Vertical uprights constructed from 45x45mm x 1.8mm wall SHS, 1800mm long complete with shark fin location housings at 500mm interval, material grade not specified. Lateral cross braces constructed from 40mmx20mmx1.3mm thick rectangular hollow section complete with shark fin type location plate at each end, material grade not specified. All steel items zinc coated finish. For Internal working application/indoor use only stated by client.*

### Identification mark affixed to item: G deck

*The client requested an impact load survey to their G Deck modular platform system, impact heights were adopted at 3meter. The drop mass was a cylindrical mass of approx. 350mm diameter. The mass was verified by a calibrated tensile load link, drop mass 100kgs. Impact positions were as schematic 1.2. once the mass had impacted onto the deck the mass was left for 15 minutes to ensure the load was sustained without system failure. Digital images were recorded showing the sustained deformation post impact.*

*2.1. In all cases, drop heights 1meter, 2meter and 3 meters, the system sustained the impact mass with no additional visual signs of material fracture or yield, the arrested mass was left for a minimum of 15 minutes following each impact, the deck panels showed progressive permanent impact deformation through the increased drop heights. Following each impact test the panels were removed and replaced with new.*

## END OF TEST REPORT NUMBER TES000380TR-1

Testing conducted by: Mr. R Thompson & Mr. A Farmer

Report authorized by :



Mr. S J Rogers On behalf of TESMEC Limited

Date of report: 1<sup>st</sup> November 2017

Our patented Lite system was developed to offer an alternative to plastic decking. The system has been designed for companies that just need a work on/walk on platform and do not need a lot of load bearing.

Still sticking with our trademark metal decks, for the legs we developed the strength in them by adding a metal inner for stability; our Lite system has already been a great success in areas such as pre fabrication houses and other trades such as carpentry and electricians.

## G-DECK SURVEY

**WE NEED A SYSTEM  
THAT DOESN'T BOW  
OR ROCK WHEN  
STOOD UPON**

BRITISH INDUSTRY SURVEY

“ ”

The G-Deck Lite system is a safety platform designed to meet a variety of end user needs. The system provides a walk on/ working platform which can be erected up to a height of 3.0m. The deck has been shown to accommodate imposed loads up to 2.0kN/ m<sup>2</sup> or 200 Kg/ m<sup>2</sup> which provides for a wide range of uses on site.

The deck can be erected by using a simple mallet, by a two man team at a rate of up to 100 square metres per hour. Critical components positively lock into place for maximum safety and security.

Compared to market alternatives, our components are lighter, easier to move and transport, and in a typical stillage can store twice the amount of components, whether they are decks or legs to competitors.



## G-DECK LITE passed a drop test from 2 metres in height with a 100kg

**TESMEC**

Independent Testing &amp; Engineering Services Ltd

Report number TES000511TR-1: LDS

**Load survey of: G Deck Light system****Document number:** TES000511TR-1**Date of survey:** 6th July 2018

**Item description:** Fabricated open mesh deck panels, 1000mm<sup>2</sup>. Outer frame constructed of 20mmx20mmx1.2mm thick square hollow section, material grade not specified, internal frame lateral bracing constructed from 20x4 flat lengths, material grade not specified, each corner terminating with a shark fin type location plate, 3mm mesh infill 50x50 square.

Vertical leg constructed from 41.5mm<sup>2</sup> plastic square hollow section 3.4mm wall thickness complete with a steel tubular section inserted throughout length as stiffener, overall length 1800mm, complete with 150mm<sup>2</sup> steel base plate 2mm thick.

4 way shark fin housing sleeve 44.5mm<sup>2</sup> SHS 1.5mm wall thickness inserted around the plastic uprights 1 midpoint and 1 at 1800mm lift secured by an 8mm locking pin.

Lateral cross braces constructed from 40mmx20mmx1.3mm thick rectangular hollow section complete with shark fin type location plate at each end, material grade not specified.

All steel items zinc coated finish. Vertical plastic square section orange finish

For Internal working application/indoor use only stated by client. System to be restrained from lateral movement at all times.

Testing conducted with client verbal instructions and recommendations.

The client requested a vertical impact test upon 4000mm<sup>2</sup> deck at 1800mm platform height

The assembly consisted of 4 number mesh deck panel installed at 1800mm height complete with 9 vertical legs, 12 lateral braces fitted at the upper shark fin of the steel extension leg all directions.

Drop height requested at 2000mm, drop mass 100kg verified via calibrated load cell.

Impact areas panel centre and centre post.

The system was erected as per the client's instruction, two 2m x 2m assemblies at 1800mm platform height with full lateral cross bracing fitted were subject to the impact test in two positions. Centre mesh panel and centre post. Both assemblies sustained the impact of 100kgs from 2m drop height, the mass was held on the platforms for a minimum of 10 minutes after impact with no additional damage or failure.

### END OF REPORT TES000511TR-1

Testing conducted by: Mr. S J Rogers &amp; Mr. A Farmer

Report authorized by :



Mr. S J Rogers On behalf of TESMEC Limited

Date of report: 6<sup>th</sup> July 2018

Strongest load bearing capacity on the market at 600kg per m<sup>2</sup>



Leg braces allows for strength & a self-supporting platform



▼ **Handrail off danger/drop off points**



▼ **Same G-DECK components used in our trestle system & working platform**



▼ **G-DECK stairs for safe easy access on and off our platforms**



▼ **Multiple decks levels**

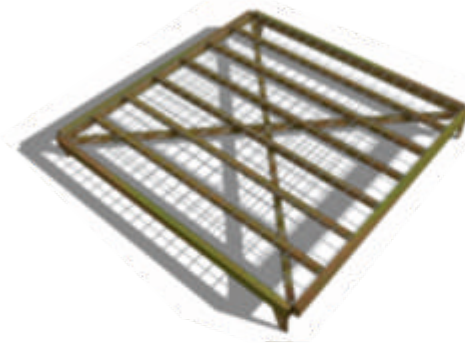




## Platform Units

**Part: GD9 Weight: 14kG**  
**Part GL1 Weight: 8kG**

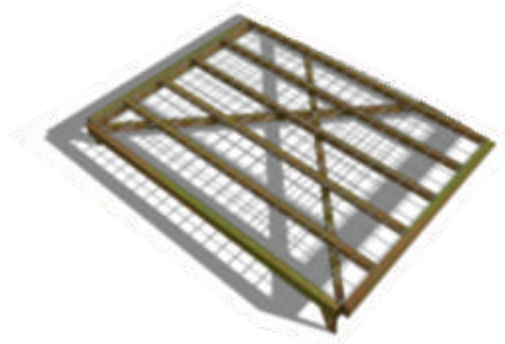
1000 mm x 1000 mm steel platform units used to form the working platform.



## Platform Units

**Part: GD33 Weight: 11kG**

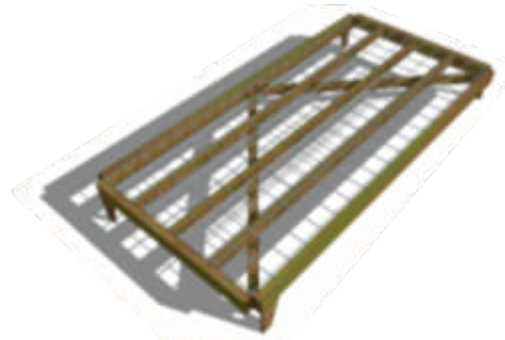
750 mm x 1000 mm steel platform units used to form the working platform.



## Platform Units

**Part: GD8 Weight: 8kG**  
**Part GL2 Weight: 5.5kG**

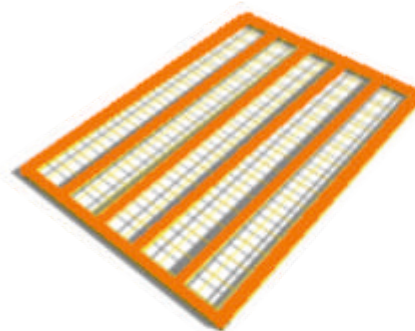
1000 mm x 500 mm steel platform units used to form the working platform.



## Make Up Panel

**Part: GD10 Weight: 6kG**

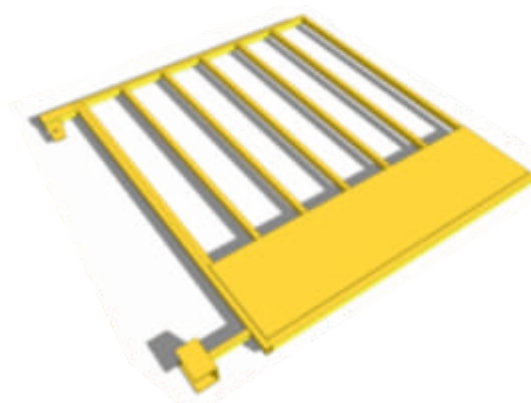
600mm x 950mm – Make up panels are used to infill gaps within the working platform if required.



## Ladder Gate

**Part: GD11 Weight: 10kG**

The gate provides edge protection at points of access onto the working platform. Lightly spring loaded for positive closure to ensure the opening in the edge protection is permanently secured.



## Cross Braces

**Part: GD2. Weight: 1.4kG**

Horizontal cross braces can be easily inserted into the legs & handrail posts enabling safe and secure protection. 500mm & 1000mm

**Gd19: Adjustable rail version**



## Handrail Posts

**Part: GD17 Weight: 3kG**

Vertical posts designed to extend the top of the legs to support the handrail sections.



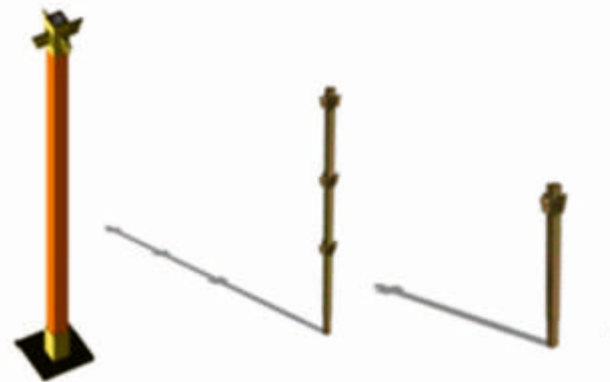
## Leg posts

**Part: GD4,5,6,7. Weight: 4.5 & 5kG**

**Part: GL3 Weight: 3.5kG**

The G-DECK posts allows heights of 800mm, 1000mm, 1500mm, 1800mm, 2000mm, 3000mm.

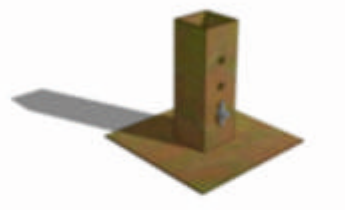
The G-DECK Lite leg is 1.8m & 2m



## Leg base, plate & pin

**Part: GD1 Weight: 0.6kG**

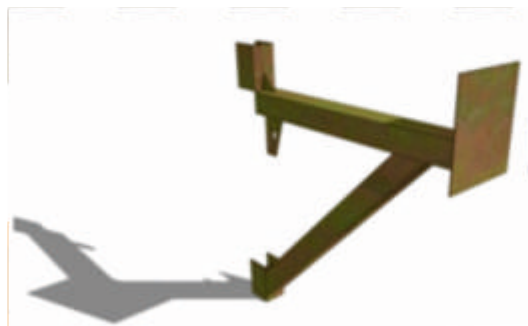
Footplate with spreader

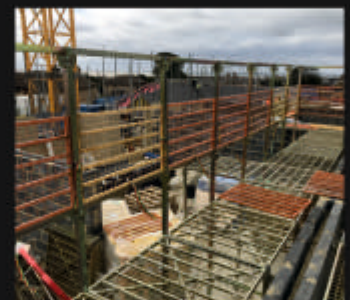
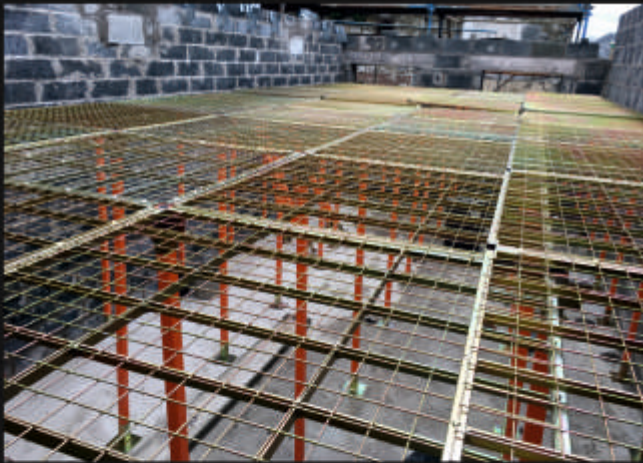


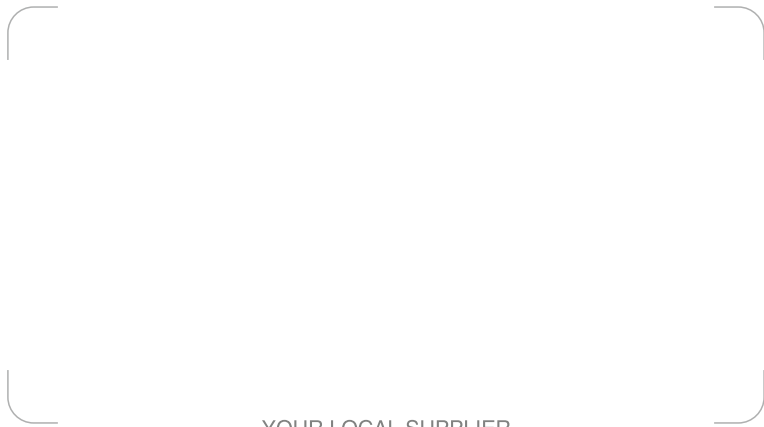
## Ladder bracket

**Part: GD12 Weight: 3kG**

The ladder bracket allows a ladder to be secured safe for entering at certain heights.







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