



G-DECK
LOAD DECK SYSTEMS

**PLATFORM | TRESTLE
TOWER**

www.gdecking.com

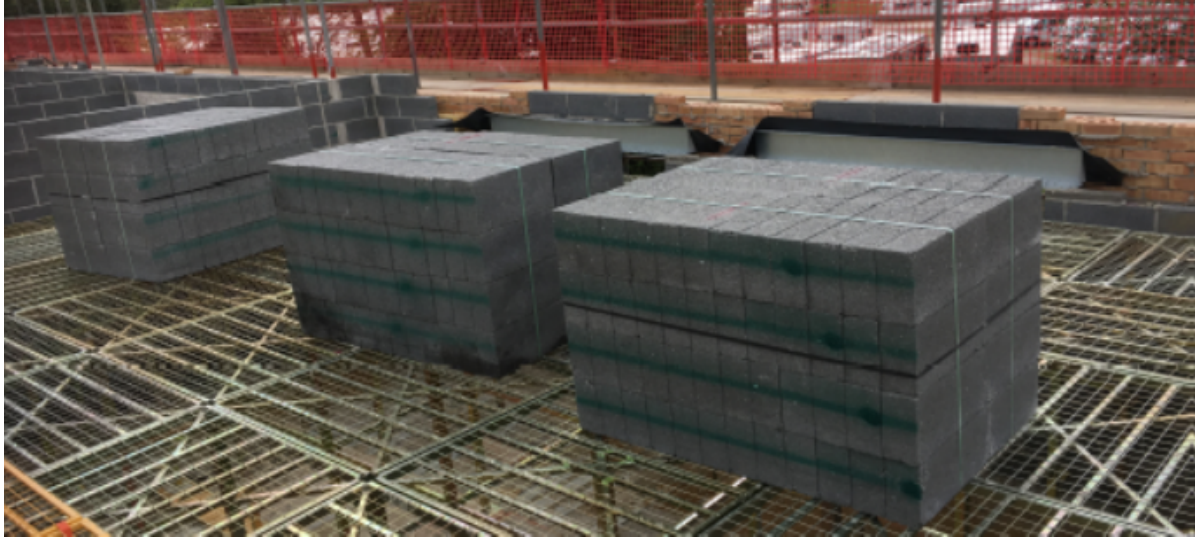
G-DECK STANDARD

Manufacturers Instruction Manual

2022/2023

INTRODUCTION

G-DECK STANDARD is a globally patented safety decking/platform system that is loadable due to its high strength. Its functionality is unparalleled as STANDARD can be a hop/on or trestle for low level, a multi level platform or a tower for high level works. This system is quick to erect, is durable and flexible enough to meet your site access needs. G-DECK's systems and products are all developed and manufactured in sustainable and recyclable materials with a safety-first approach, this is why all our systems have been subjected to stringent testing and analysis to prove its load carrying capabilities.



G-DECK STANDARD can be erected at a range of heights from 0.3m up to 5.1m. The deck has been shown to accommodate imposed loads up to 6kN/m² or 600Kg/m² up to 2 meters in height and 2kN or 200Kg/m² anything above 2 meters.

The deck can be erected by using a simple rubber mallet by a two-man team at a rate of up to 50/70 square meters per hour. Critical components positively lock into place for maximum safety and security.

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.

SAFETY SYSTEM

Legislations

There are laws and regulations that you must be adhered to all times when using our system.

Health & Safety at Work Act 1974

The Health and Safety at Work Act 1974 (HASAWA) lays down wide-ranging duties on employers. Employers must protect the 'health, safety and welfare' at work of all their employees, as well as others on their premises, including temps, casual workers, the self-employed, clients, visitors and the general public.

Manual Handling Operations Regulations 1992

Manual Handling Operations Regulations 1992 (as amended) (MHOR) The Regulations define manual handling as: "...any transporting or supporting of a load (including the lifting, putting down, pushing, pulling, carrying or moving thereof) by hand or bodily force". The load can be an object or person.

The Personal Protective Equipment at Work Regulations 1992

Employers have duties concerning the provision and use of personal protective equipment (PPE) at work. PPE is equipment that will protect the user against health or safety risks at work. It can include items such as safety helmets, gloves, eye protection, high-visibility clothing, safety footwear and safety harnesses.

The Workplace (Health, Safety and Welfare) Regulations 1992

In the United Kingdom Statutory Instrument that stipulates general requirements on accommodation standards for nearly all workplaces. ... Enforcement is the responsibility of the Health and Safety Executive (HSE) or in some cases, local authorities.

The Working at Height Regulations 2005

The Working at Height Regulations 2005 (WAHR) has no minimum height requirement for work at height. They include all work activities where there is a need to control a risk of falling a distance liable to cause personal injury.

Management of Health & Safety at Work Regulations 1999

The Regulations were introduced to reinforce the Health and Safety at Work etc Act 1974. The MHSWR places duties on employers and employees including those who are clients, designers, principal contractors or other contractors

SYSTEM ACCREDITATION

G-DECK has been rigorously tested and checked against the relevant European standards for temporary works and access products.

G-DECK has been assessed in accordance with the requirements of BS EN 12811-1:2003 and BS EN 13374:2013, and materials used throughout the system comply with the requirements of BS EN 12811-2:2004. G-DECK has passed a rigorous physical testing regime specified by independent engineers and undertaken at a UKAS accredited laboratory.

G-DECK complies with BS EN 12811-1:2003 (Load Class subject to height) and BS EN 13374:2013 Barrier Class A

STATEMENT OF COMPLIANCE

Based on calculation and testing as noted above, when used in accordance with this guide G-DECK can accommodate the loading and platform height combination as shown in the table below.

G-DECK has been proven to be capable of accommodating a uniformly distributed load of 6kN/m² at a platform height of up to 2.0m. Through calculation and physical testing it has met the requirements of the following European design standards when used in accordance with this guide:

- BS EN 12811-1:2003 Load Class 3 at a platform height of 1.8m or 5.1m.
- BS EN 12811-1:2003 Edge Protection Requirements.
- BS EN 13374:2013 Barrier Class A.

SAFE WORKING LOADS

Based on calculation and testing as noted above, when used in accordance with this guide G-DECK can accommodate the loading and platform height combination as shown in the table below.

Platform Height	SWL	Max Post Load
800mm	6kN/m ²	6kN
2m	6kN/m ²	6kN
Above 2m+	2.0kN/m ²	2.0kN

G-DECK is a naturally freestanding system. If installing outside of a wall to wall environment we recommend using our cross braces on the legs to keep rigid, especially if loading. Within a wall to wall environment cross bracing of the legs is not required as the outer walls form the bracing.

INSTALLATION METHOD STATEMENTS

Method statements for erection and dismantling of G-DECK STANDARD should be read with consideration of the specific site requirements and conditions. The procedures outlined are for guidance only and may need to be modified as a result of a specific site risk assessment

General Requirements

- ❖ Do not exceed the safe working loads stated in this guide.
- ❖ The base should be clean, free from debris, level, and must be capable of sustaining the load applied through the G-DECK support posts.
- ❖ It is recommended that loading of the infill panel/make up's is avoided but can be loaded up to 2kN (200Kg).

Pre-Installation Checks

- ❖ Each component should be inspected before being included in the deck assembly for signs of damage or fatigue. If in doubt, contact LDS Hire & Sales Limited for further advice.
- ❖ Ensure all components are clean, free from debris and built-up materials such as mortar spots or concrete overflows.

General Installation Guidance

- ❖ Installation should only be carried out by suitably trained personnel who are familiar with the assembly of the system and the contents of the current version of this guide.
- ❖ Current Health and Safety guidance must be followed, including guidance on the use of PPE and high visibility clothing.
- ❖ Where there is a risk of materials falling onto persons passing below whilst erecting the deck, suitable exclusion zones should be provided.
- ❖ Position ladders to avoid over-reaching and ensure they are secured at the top.

Completed G-DECK Checks

- ❖ G-DECK should be inspected by a competent individual prior to each use, and after any incidents of extreme weather or accidental loading/damage. The inspection should cover all aspects and components of the platform, and the results recorded on file.
- ❖ Any occurrence during usage of G-DECK which raises a concern over safety should be reported to the individual responsible for the platform, and the necessary action taken to make it safe.

Warning

- Never allow untrained individuals to erect or modify the platform.
- Never remove or omit toe boards and guardrails where they are required.
- Never remove bracing members without consulting a suitably qualified individual.
- Never create gaps in the platform by removing platform units.
- Never leave access points unguarded.
- Never add sheeting or netting to the G-DECK structure.

Access In & Out of Plots

Safe access into plots should always be given to allow installers to be able to carry G-DECK's components in and out of situ safely. FASET's guideline is below

FASET Bulletin APD05 (Revision 1) Plot Access

Safe access to plots is required for the installation and dismantling of Access Platform Decking systems. This means the access point to the plot needs to remain unobstructed whilst operatives are working.

System operatives often attend sites where their access is obstructed by scaffolding, or they are expected to access the plot through windows etc. This creates a hazard and puts the operative at risk of injury due to additional manual handling and climbing over / through obstructions.

Clients should ensure that:

- Clear, trip free access to the plot is maintained throughout the installation and dismantling of the system
- A pre-arranged and agreed offload area is required to allow for materials to be safely unloaded / loaded
- Ground floor access should be via slope of no more than 10 degrees or steps no greater than 225mm in rise
- Plot should be free of debris
- Ground floor access should be installed prior to the 1st lift scaffold being erected
- If scaffolding has already been installed, a reasonable sized opening should be provided for the size of the system components being installed / dismantled (see Figure 1).

Early engagement between the Client and the Access Platform System installer / dismantler will help to ensure works are planned and executed in a safe manner.



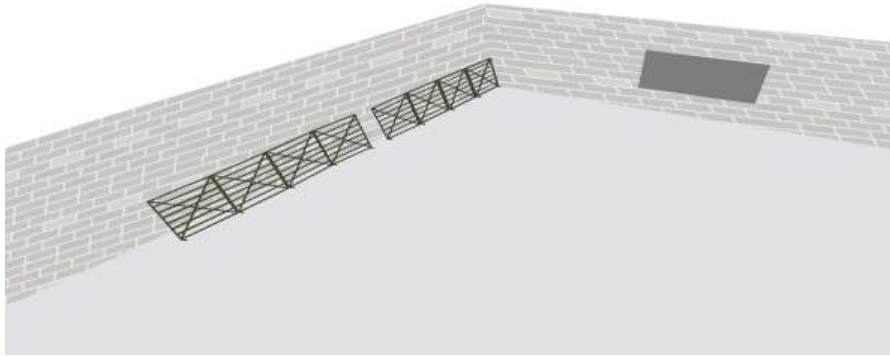
Figure 1. Example of clear access provided through erected scaffolding



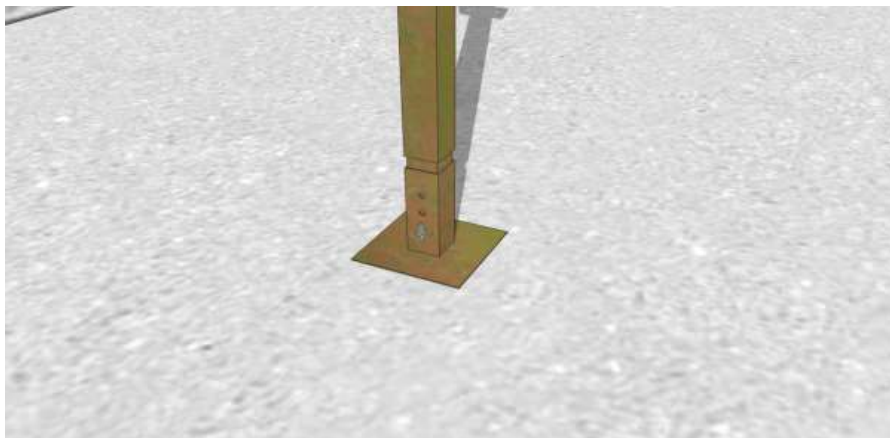
Figure 2. Example of compromised access due to 1st lift scaffold being erected prior to Access Platform Decking system installation

INSTALLATION OF PLATFORM AT 1.8/2.0M (WALL TO WALL)

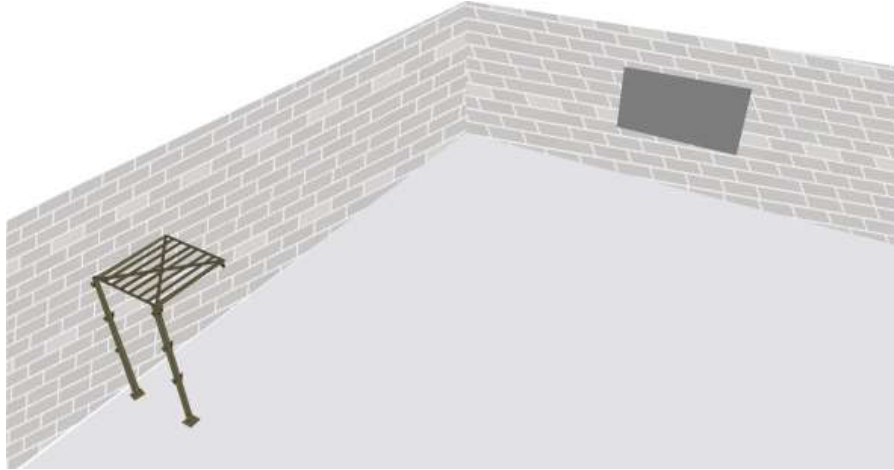
1. Check the equipment that is going to be installed is in perfect working order and the area is suitable and debris free.
2. To determine amount of decks required for the space, simply walk a deck panel down one axis to give you an indication of how many decks will be required for space.
3. Start to bring in the G-DECK components to start installing. Ensure walls are not green if you are laying components up against them.



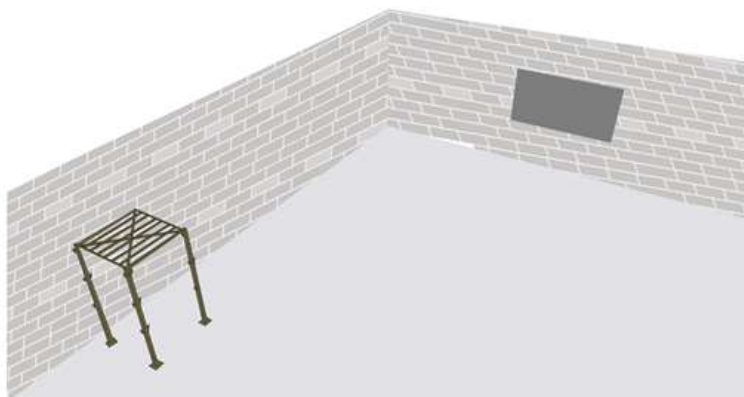
4. Ensure on all the legs the foot base plates are secured to the leg via a pin & clip. If the pin & clip are not present and the leg is within the foot base plate then this doesn't affect the stability of the install, but will mean on dismantle the foot may fall off and get lost before it's next install.



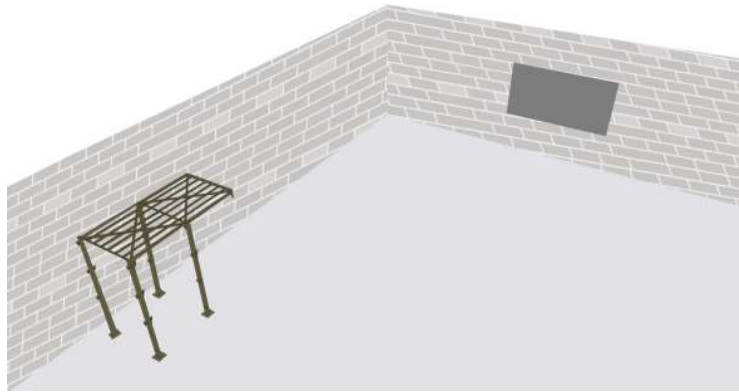
5. To start to install stand two leg posts upright and insert a platform fin into the V press connections on the leg.



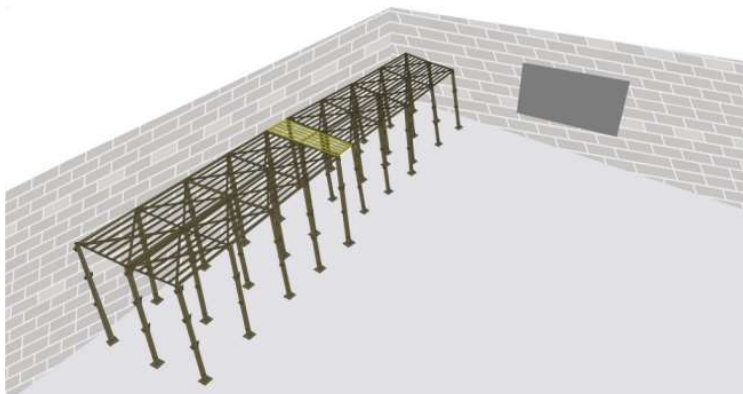
6. Tilt two legs slightly and add a further two legs in the same way to form the first m2.



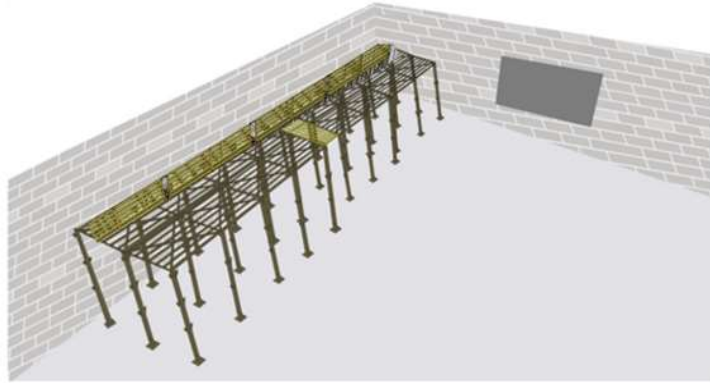
7. Continue the sequence of adding legs and deck panels. When the end wall is reached and if there is still a gap up to the wall, a deck panel or make up panel can be used as an overlay to ensure the platform is up to the wall, they should always be secured down to the existing platform with buckle straps and not loaded. Work back parallel to the run of G-DECK already erected using the same method described to create a two-metre depth of G-DECK.



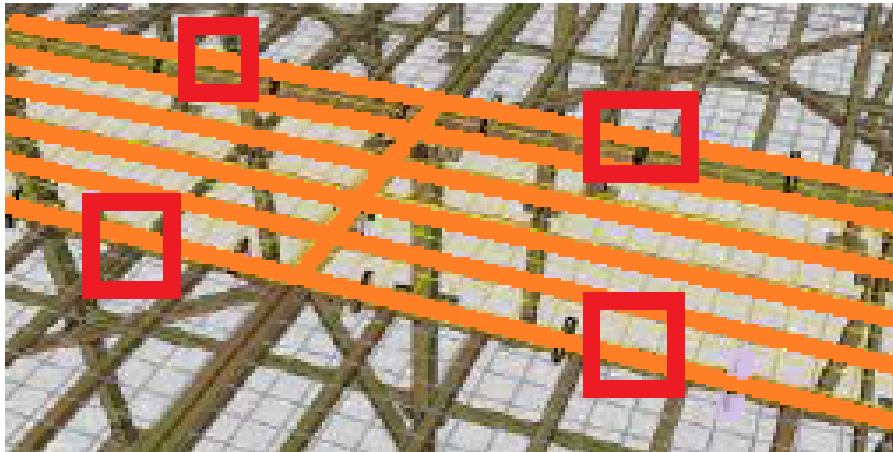
8. If the geometry dictates a gap in the center or perimeter of the run, lay an make up overlap panel or deck panel over the gaps across the open areas to stop any fall arrest. Again buckle straps should be used to ensure they are secured down and cannot be moved from any movement above.



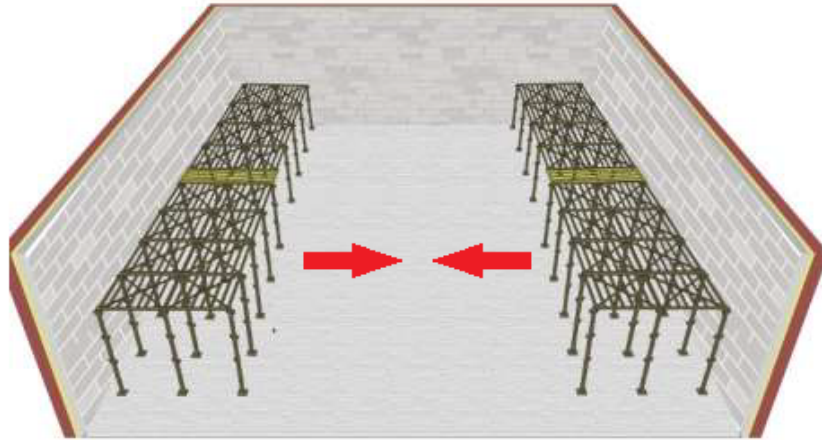
9. If using a deck panel or make up overlap panel to be cantilevered on the edge, you must ensure the gap is less than 250mm from the platform to the wall and a minimum of 3 straps is used at the rear of the panel. If the gap to the wall is over 250mm then raised legs are to be introduced.



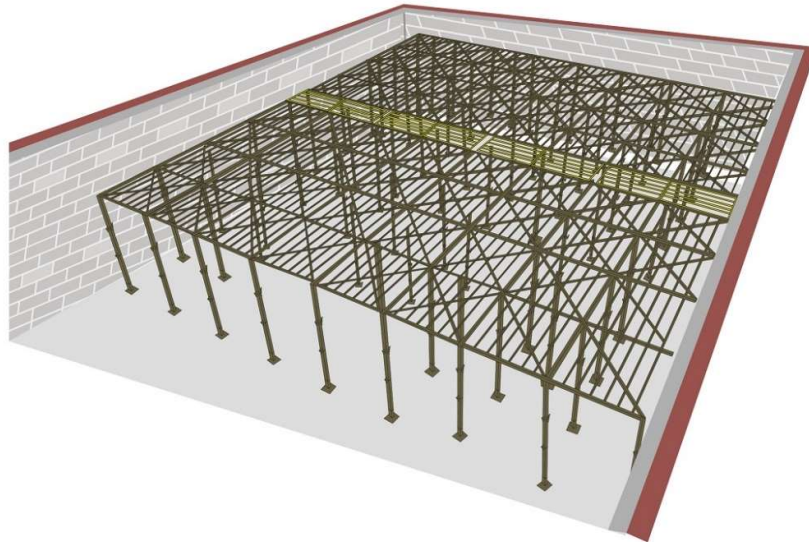
10. Make sure the overlaps are secured using appropriate buckle straps. A minimum of one strap on the outer edge of each make up panel should be fitted. If required, additional straps can be added to remove any movement.



11. When a two-meter depth is completed, proceed as above, alternating sides until the platform meets in the middle. If a gap is present, use Make up or decks to overlap the void and secure down with buckle straps as described in Step 9

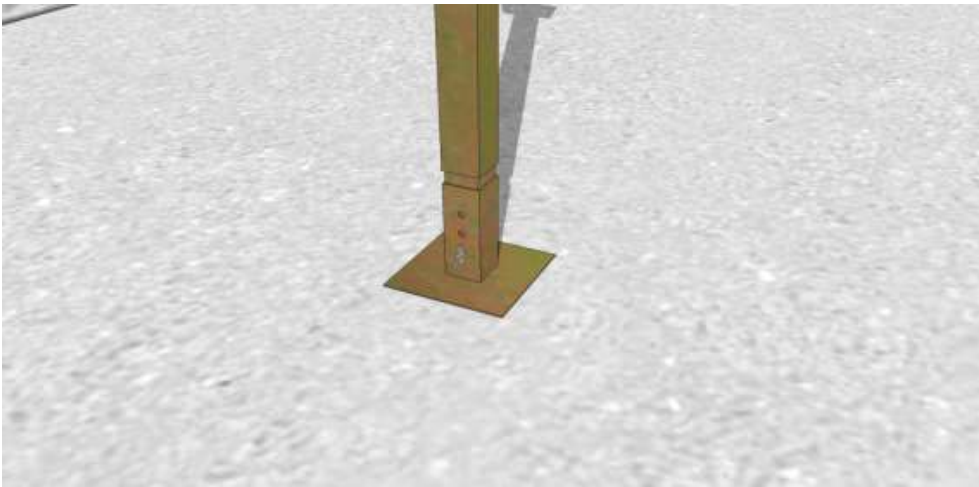


12. Finish and inspect.

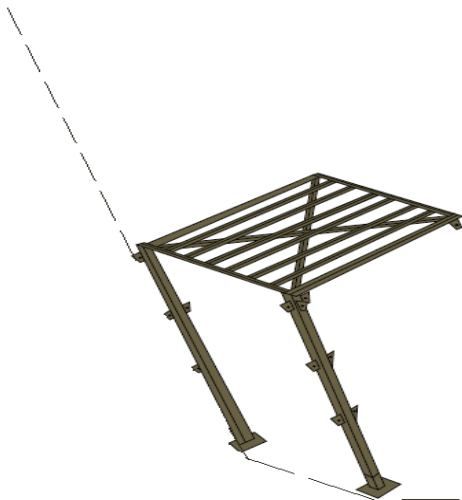


INSTALLATION AS A PLATFORM DECK AT 1.8/2.0M (FREE STANDING)

1. Check the equipment that is going to be installed is in perfect working order and the area is suitable and debris free.
2. To determine amount of decks required for the space, simply walk a deck panel down one axis to give you an indication of how many decks will be required for space.
3. Start to bringing into the area the G-DECK components to start installing.
4. Ensure on all the legs the foot base plates are secured to the leg via a pin & clip. If the pin & clip are not present and the leg is within the foot base plate then this doesn't affect the stability of the install, but will mean on dismantle the foot may fall off and get lost before it's next install.



5. To start to install stand two leg posts upright and insert a platform fin into the V press connections on each leg.



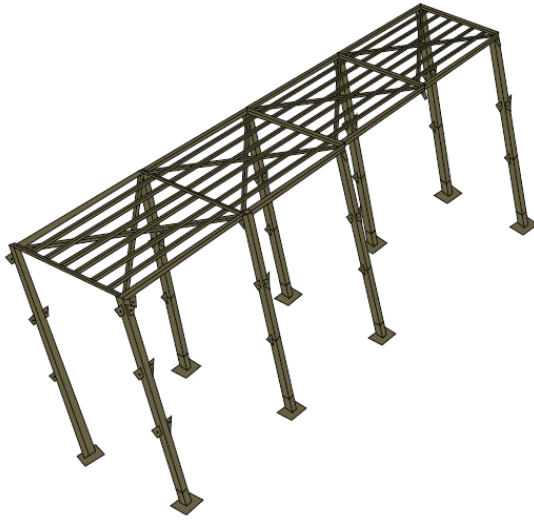
6. Tilt two posts slightly to allow the connector plates to engage and fit to the remaining corners of the platform at 1.8m.



7. Repeat Step five with two posts.



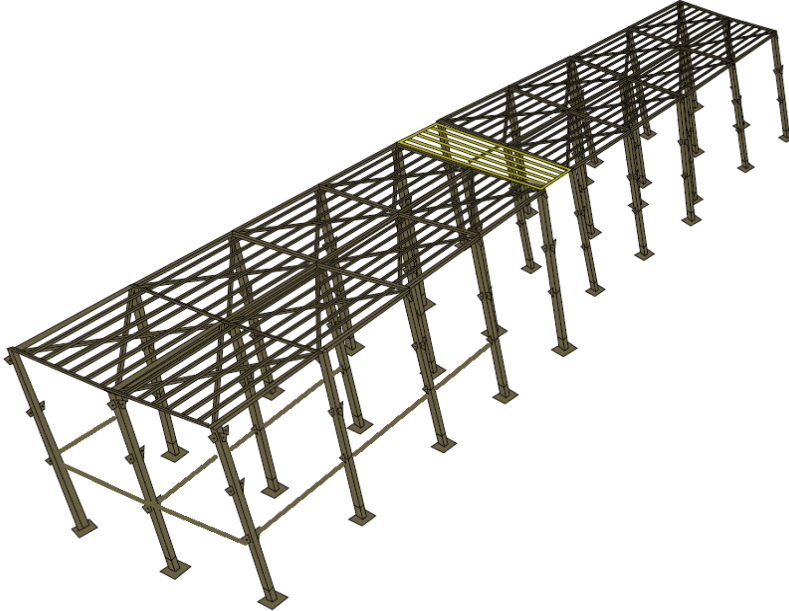
8. Keep repeating the process.



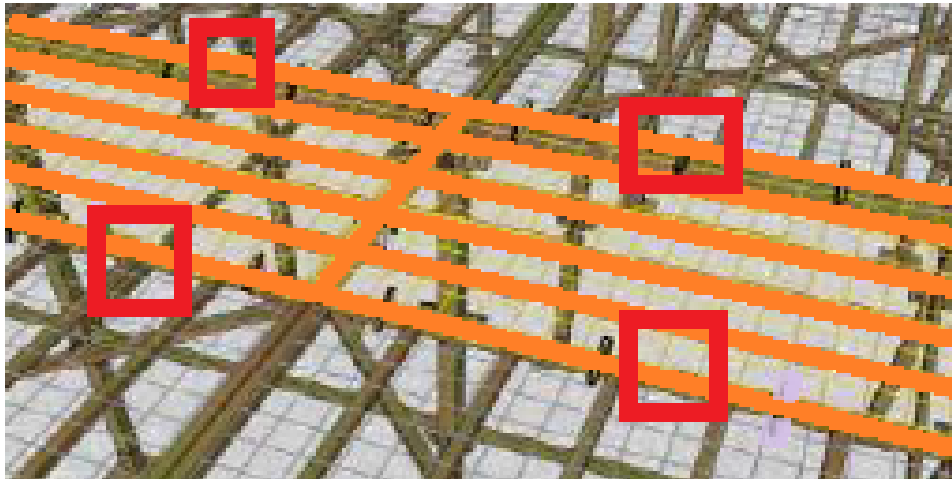
9. Install horizontal cross braces at 1m or 2m centres and secure.



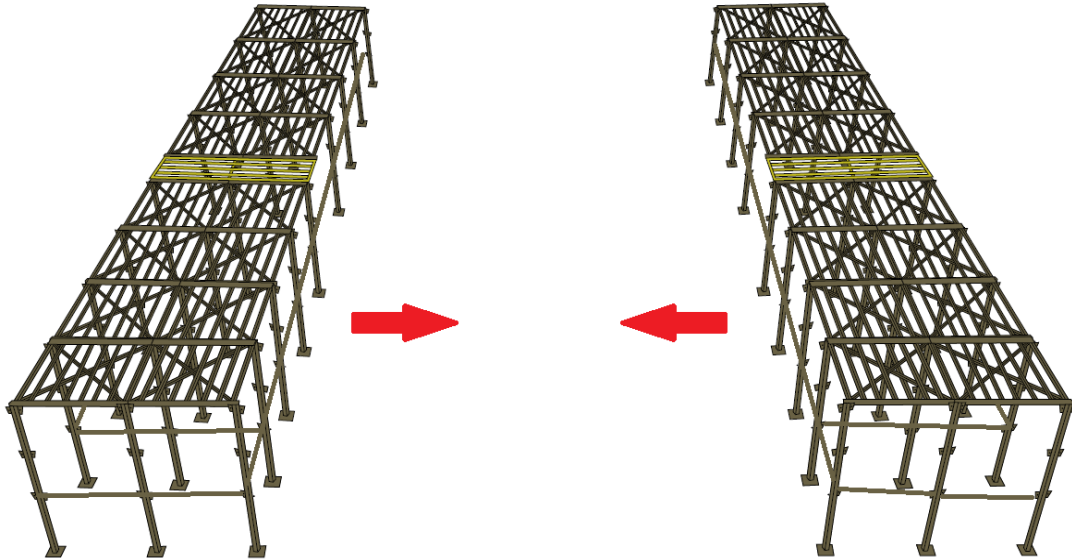
11. Continue the sequence of adding two leg posts and then adding a deck, while continuing to insert the cross braces. Work back parallel to the run of G-DECK already erected using the method described to create a two-metre depth.



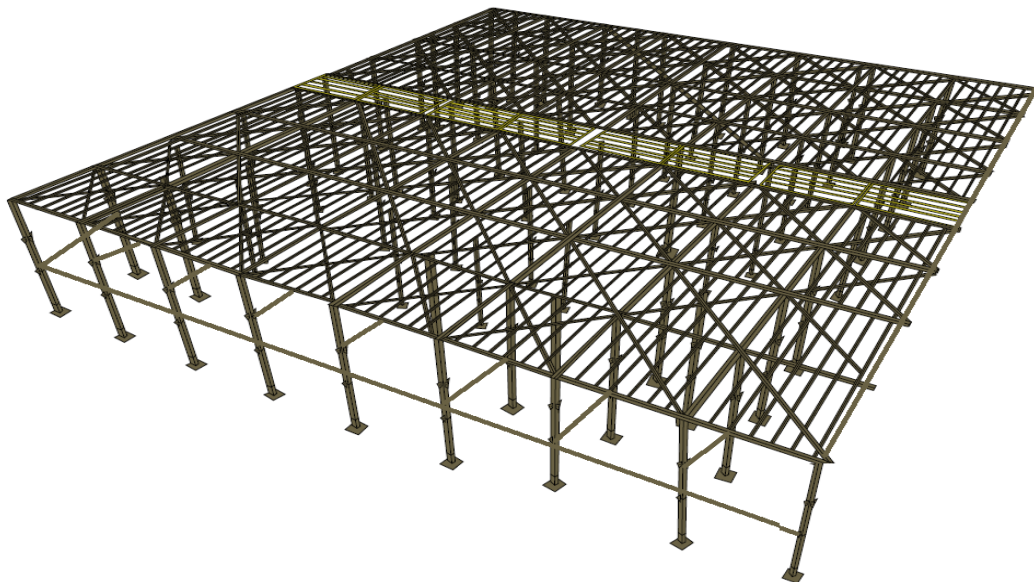
12. If the geometry dictates a gap in the centre of the run, lay a make up or deck panel over the gap and securely attach it to the adjacent platforms using buckle straps. The illustration below shows various locations a buckle strap can be added. Ensure if using decks that the deck fins locate through the lower deck mesh. If any fins are not contained like the end of a platform, please ensure it's strapped down.



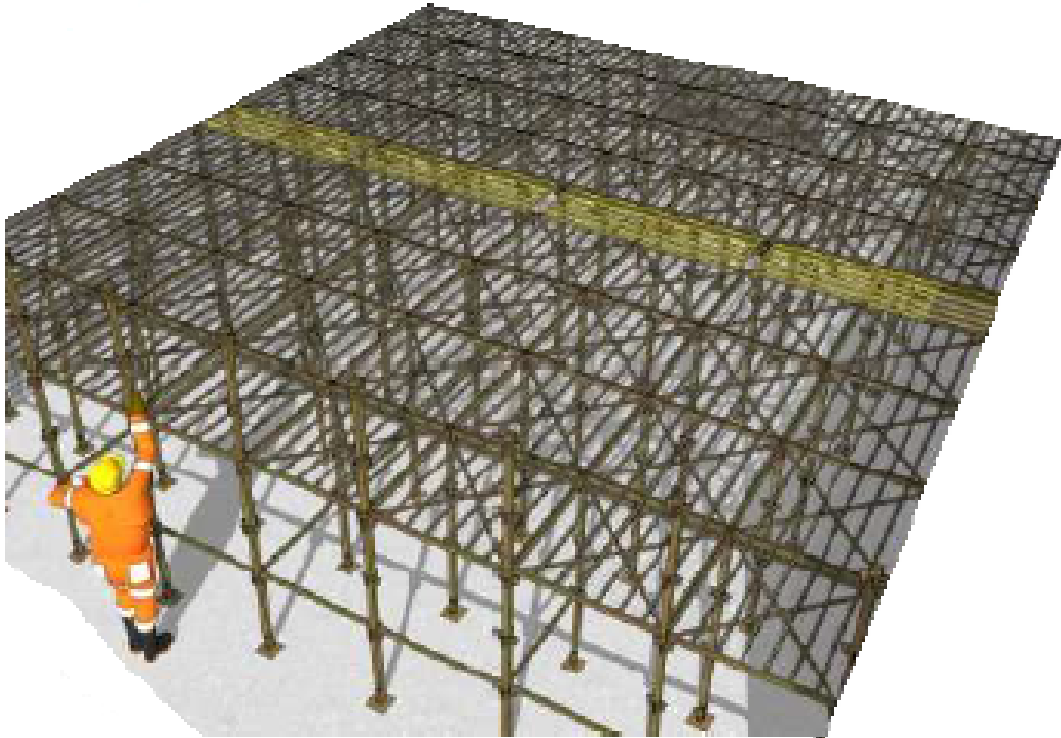
13. Repeat the process, starting from the opposite end of the space.



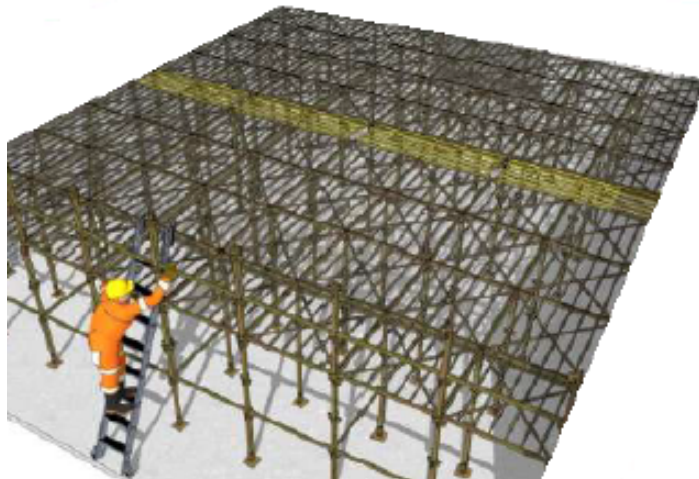
14. Finish and inspect platform.

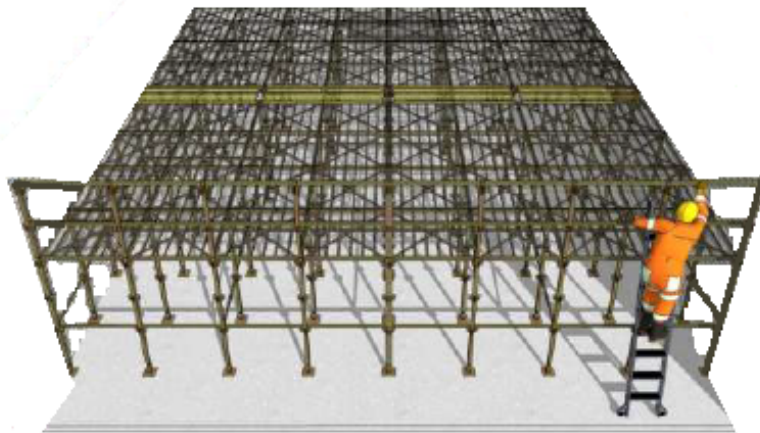


15. Being free standing means there will be surrounding open edges that will need edge protection, to prevent any fall arrest install handrail posts around the perimeter into the tops of the legs.

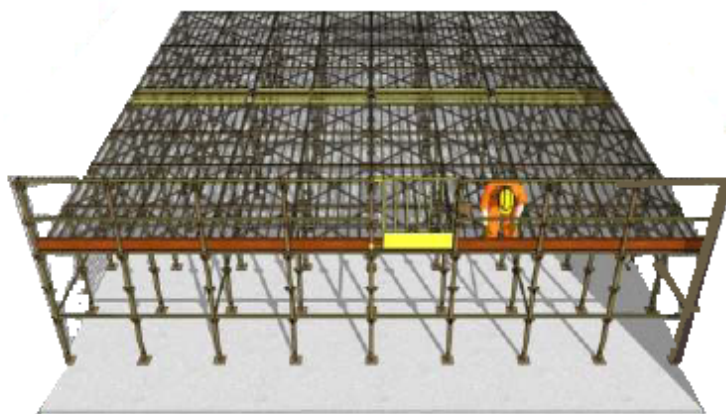


16. Secure ladders to the edge of the deck and insert the horizontal cross braces that form the guardrails into the connectors on the handrail posts and secure. Relocate the ladders and repeat as necessary.





17. Ensure toe boards are fitted to surrounding edges. Also for easy access you can install our ladder bracket and spring loaded gate. The platform is now ready for a final inspection

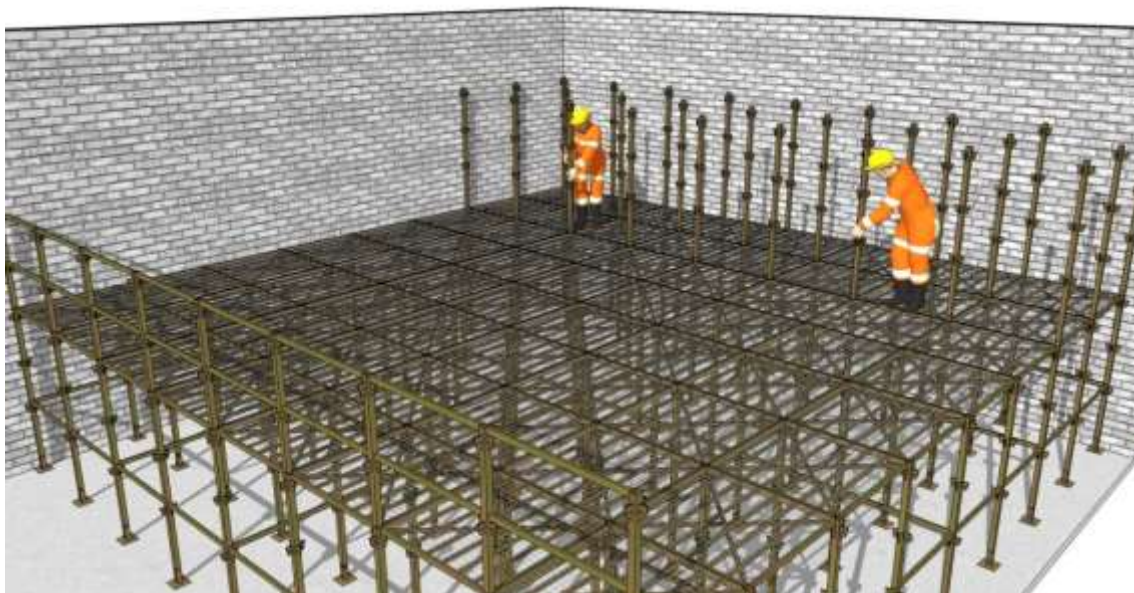


RAISING THE PLATFORM UP TO 3.4 & 5.1m

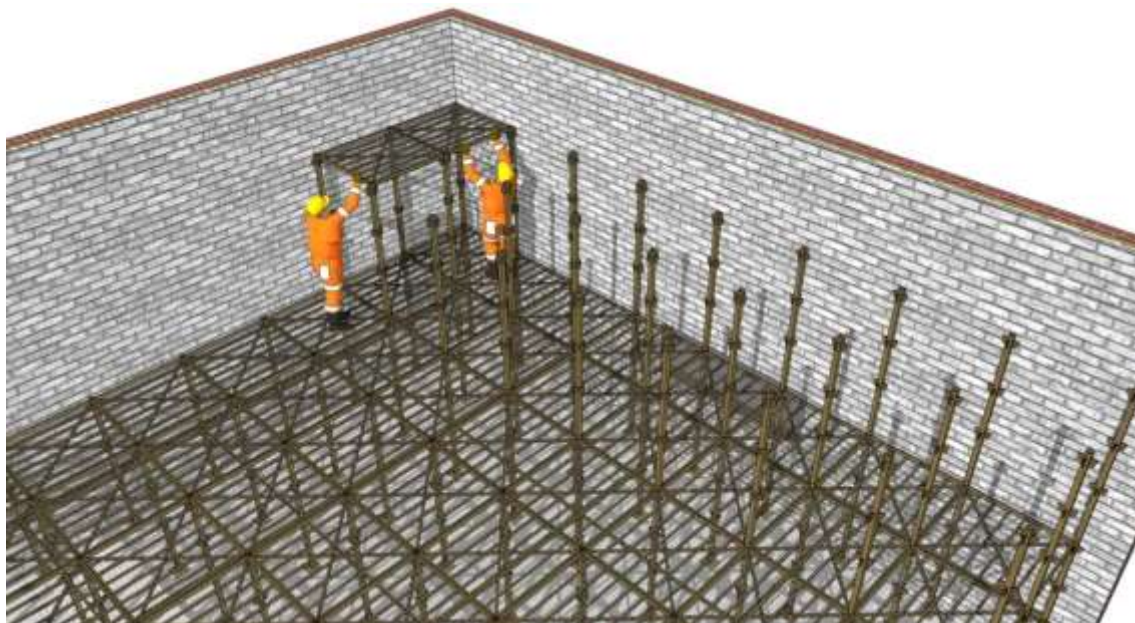
A method statement detailing the raising of platform from 1.8m within an enclosed structure to a height of 3.4m & 5.1m.

Note in the following illustrations the side wall is omitted for clarity.

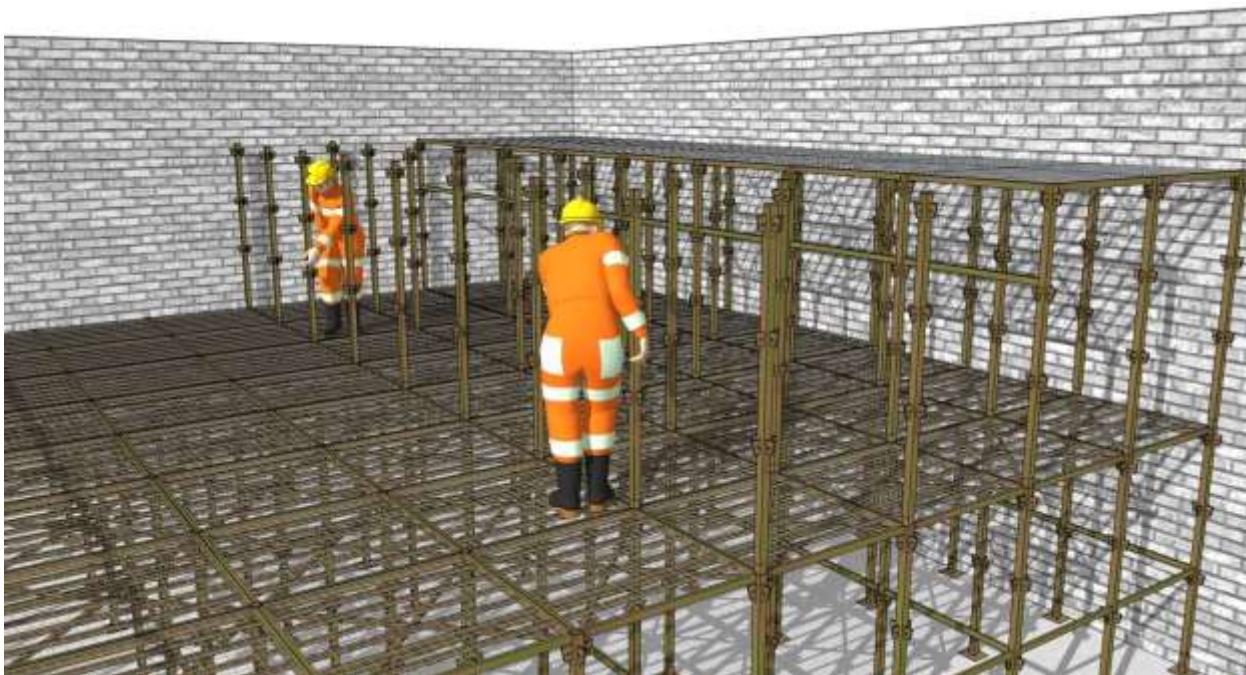
1. Review the general information relating to method statements provided at the beginning of this section. Use of the DECK should be restricted to those raising the level until the operation is complete. Note that more floor panels are necessary than those required for the plan area due to the erection method. The side wall omitted from illustrations for clarity.
2. Working from the existing platform, install 1.8m legs into the top of the existing legs across a 2-metre width of deck. Where applicable remove toe boards in this area.



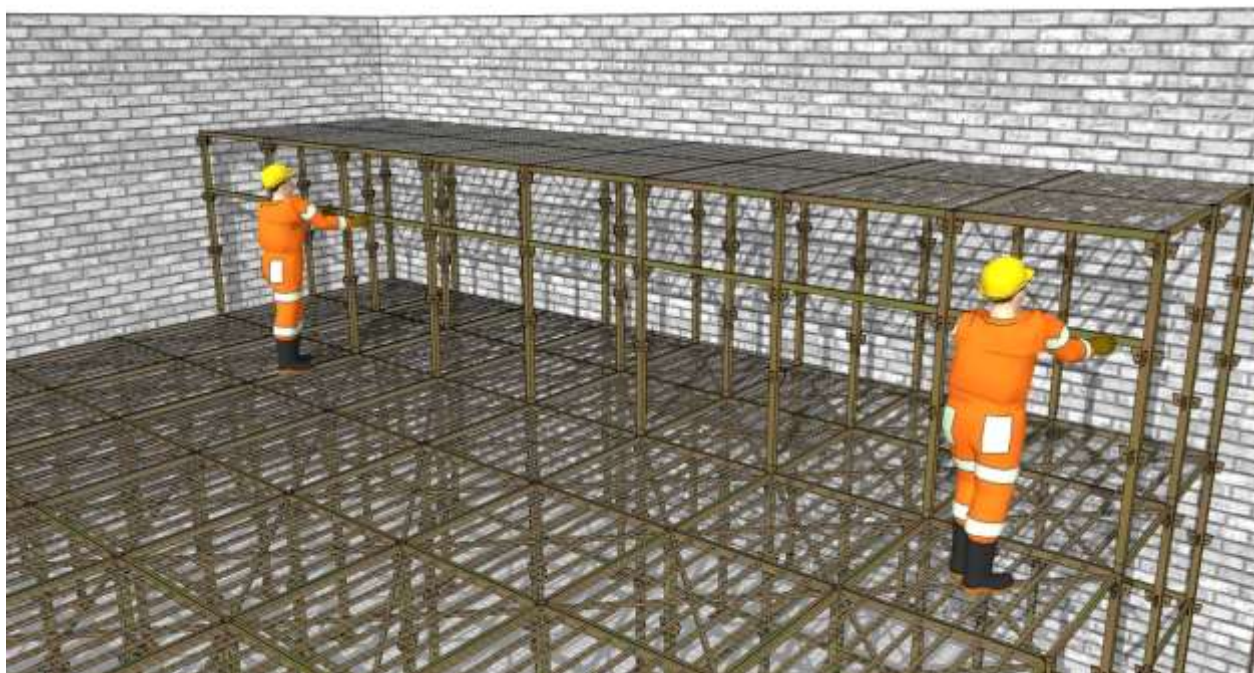
3. Install decks into the legs V presses erected in Step 2 and secure into place.



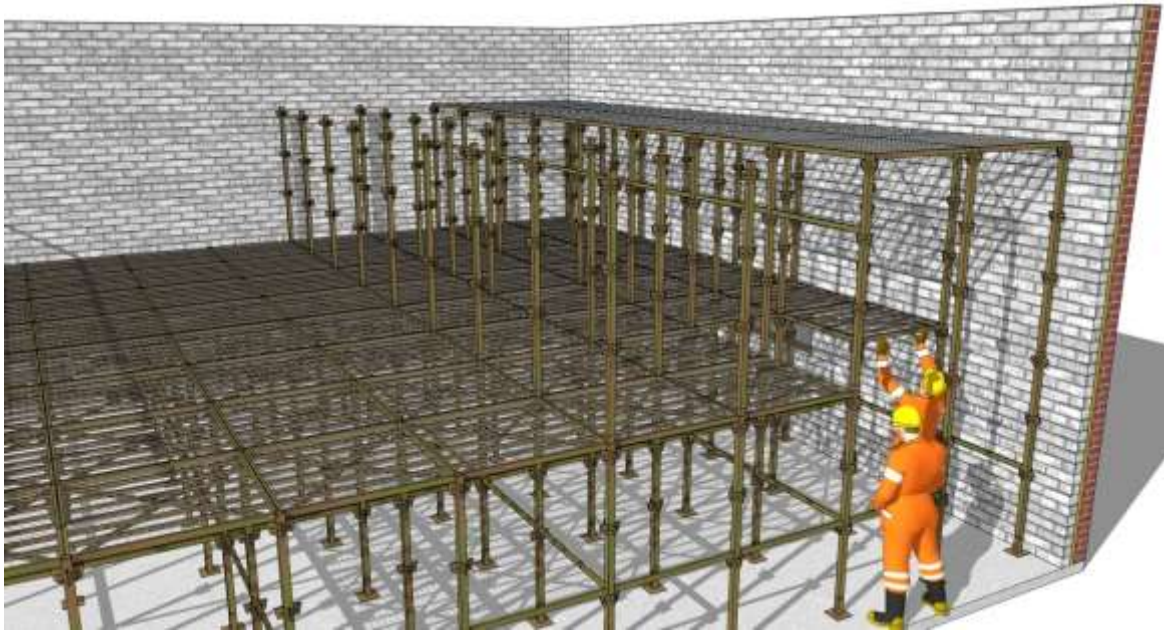
4. Erect temporary guardrails on the 1.8m platform level at the edge of the extent of the 3.4m platform and secure.



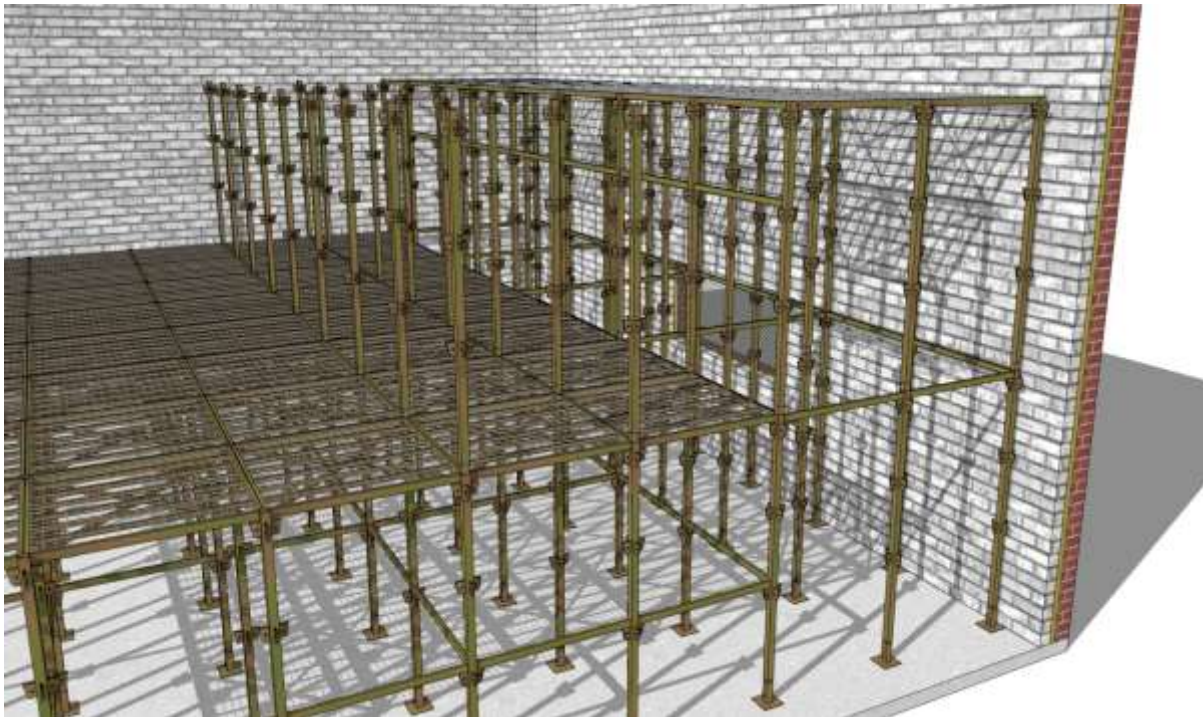
5. Install 1.8m posts into the top of the existing posts over the next two metre width of platform.



6. Working from the ground you must remove the 1.8m platform directly below the area of the 3.4m platform.



7. Remove horizontal braces at 1.0m and install horizontal braces on a 2m x 2m grid at 1.8m level beneath the area of removed platform, securing in place with a firm hammer blow.



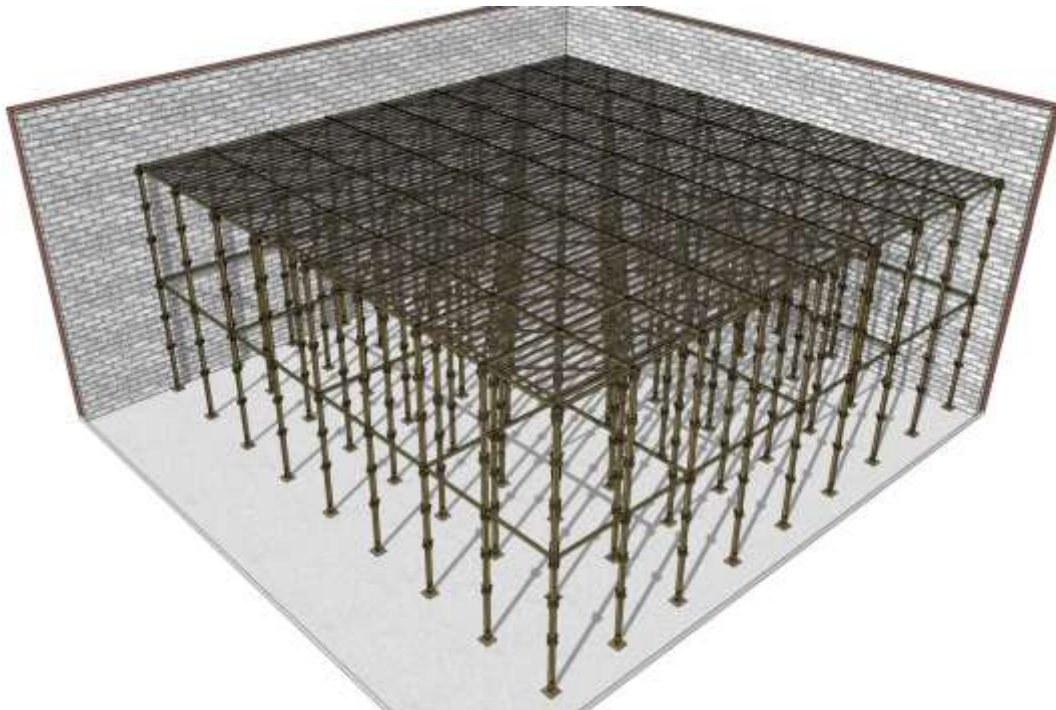
8. Install the removed units onto the posts erected in Step 5, forming a platform at 3.4m.



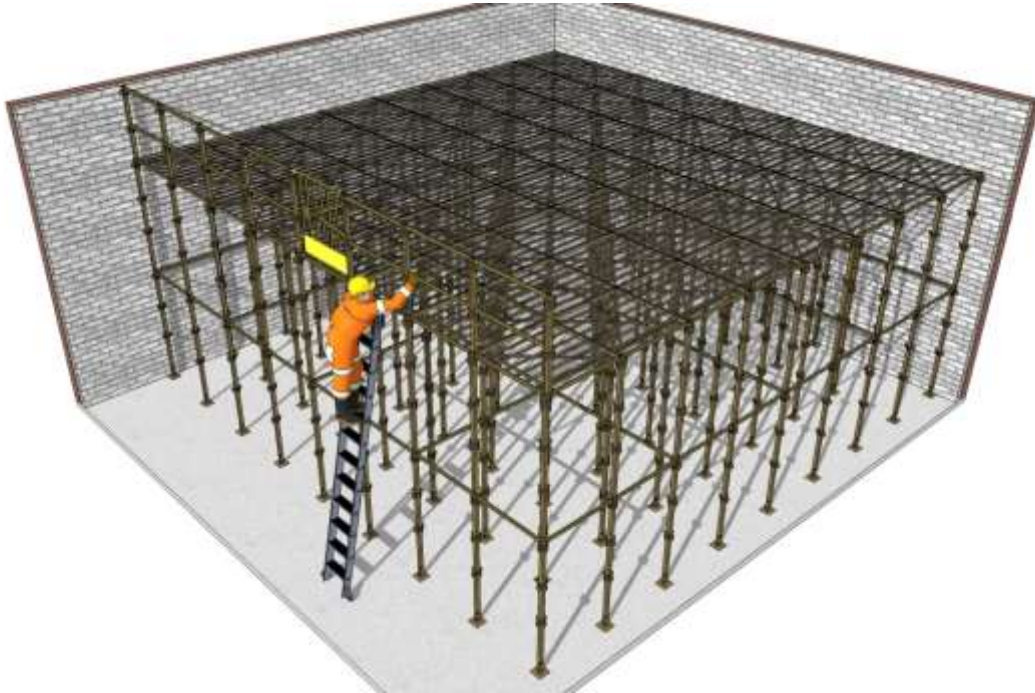


9. Remove the temporary guardrails using secured ladders and repeat Steps 4 to 8 as necessary.

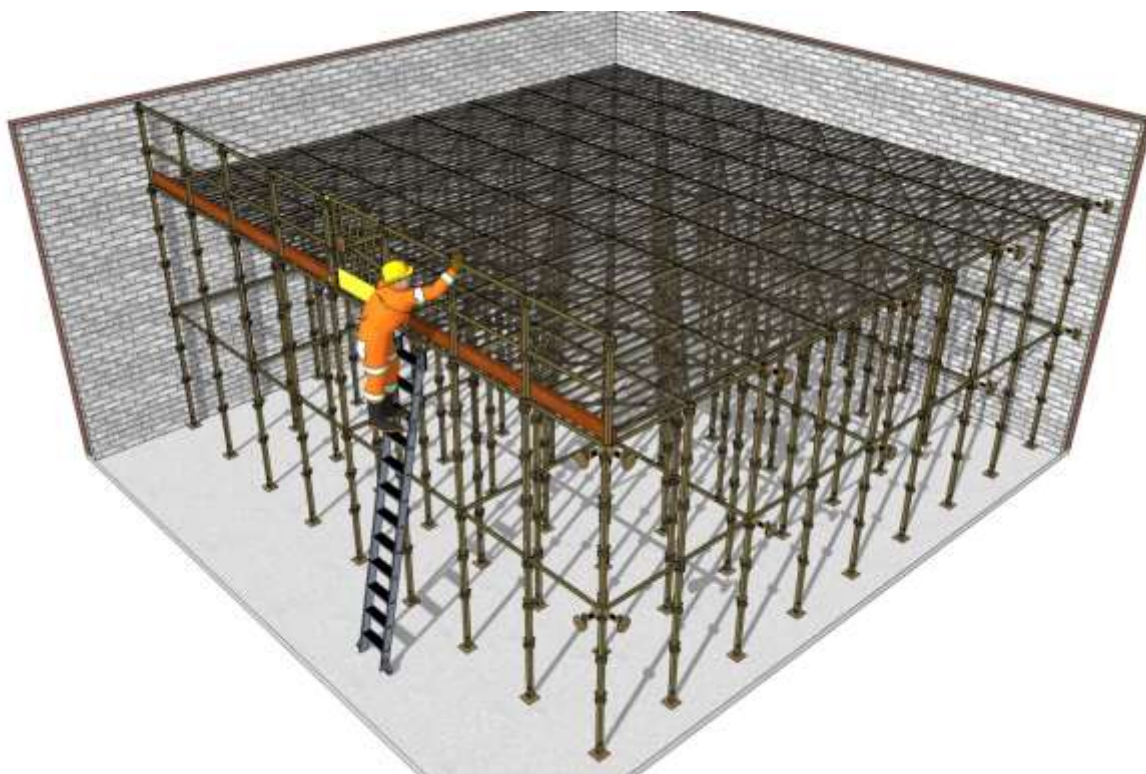
10. Where there is a free edge protected by guardrails on the 1.8m deck, you must remove the guardrails and posts from below using secured ladders and replace with 1.8m posts and temporary guardrails.



11. Form the final section of platform as described above to form a completed platform at 3.4m.



12. Ensure that the layout of bracing as required by Step 7 allows for DECK access or emergency access if required.
13. Where protection is required to a free edge of the 3.4m DECK, install handrails from secured ladders as previously described.
14. Access can be gained from within the DECK area or from a free edge using an access ladder and gate. The method of installation is as previously described.
15. Alternatively, access can be made by using the remaining 1.8m panels as an intermediate level.



17. If toe boards are required install as previously described.

18. The DECK is ready for use subject to a final inspection.

INSTALLATION AS A TRESTLE DECK AT 0.80M

Method Statement for erecting a linear deck against an existing structure.

1. Review the general information relating to method statements provided at the beginning of this section.
2. Check the equipment that has been ordered is sufficient and suitable for the length of deck to be erected.
3. Fit the adjustable bases to three 1.8m posts and one 0.8m post, and level as required, locking the posts to the bases using pins and clips.
4. Stand two 1.8m posts upright at the end of the run of deck. Insert a platform into the connections at 0.75m.



5. Tilt the remaining two posts slightly to allow the connector plates to engage and fit to the remaining corners of the platform. Use the 0.8m post against the face of the existing structure.



6. Working from the ground level insert the horizontal brace members which form the guardrails in the connections at 1.25m and 1.75m on front and side faces. Secure in place using pins and clips.



7. Fit the adjustable bases to one 1.8m post and one 0.8m posts and level as required, locking in place using pins and clips.
8. Insert a platform unit into the free connections on the previously erected posts.



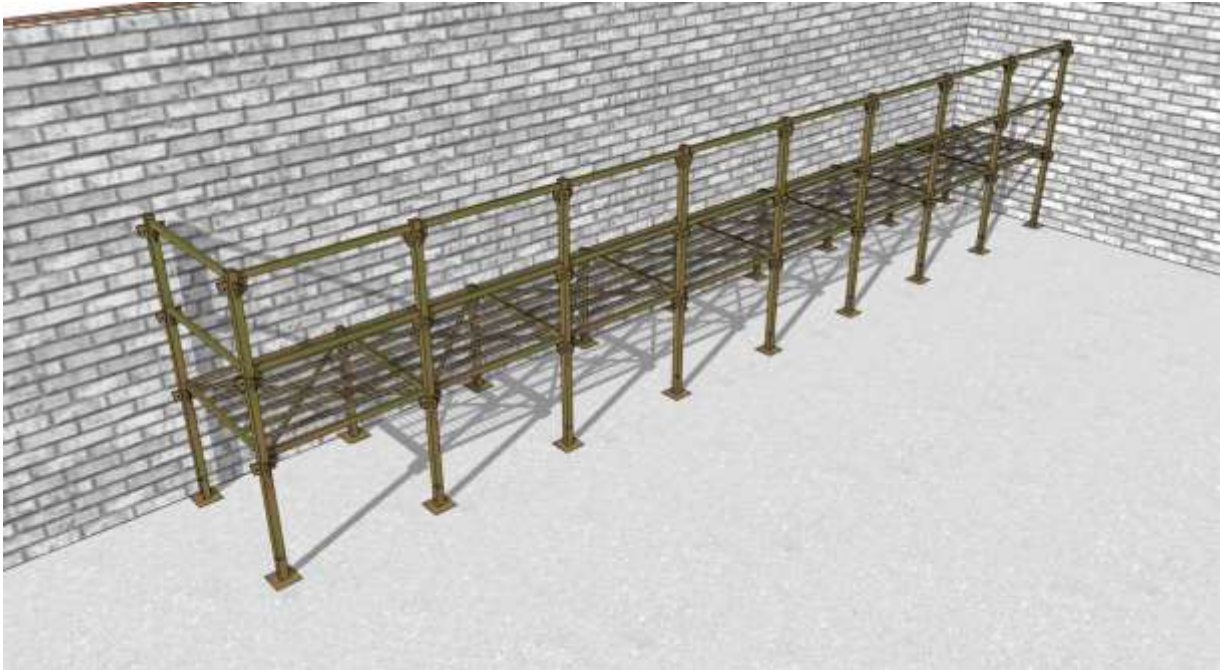
9. Tilt the two posts assembled in Step 7 slightly to allow the connectors to engage, and fit to the platform, securing with pins and clips.



10. Working from ground level up, insert the guardrails to the front face into the connectors at 1.25m and 1.75m, securing with pins and clips.



11. Repeat Steps 7 to 10 to complete the length of deck as necessary. Fix guardrails to protect the free end of the deck as previously described.



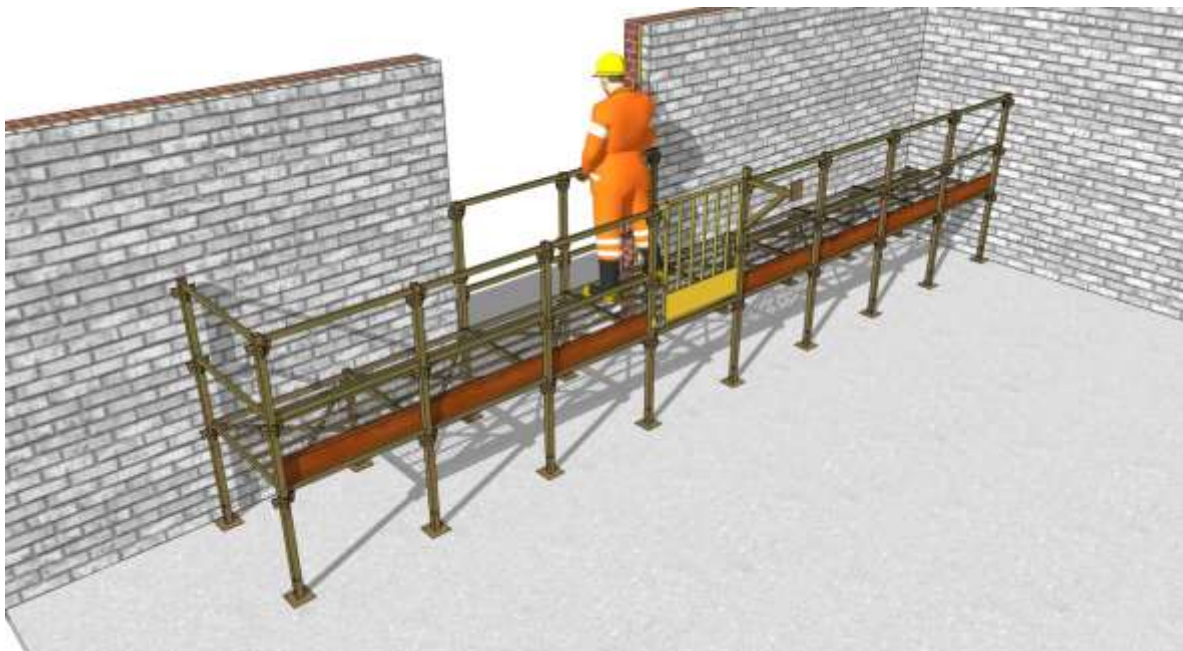
12. At the required access location, omit the guardrails and, working from ground level, provide an access gate secured with pins and clips.



13. If access to the deck is by ladder, fix a ladder access bracket secured with pins and clips and secure an appropriate ladder to the bracket.
14. Fit timber toe boards if required and secure using toe board brackets.



15. If there are gaps in the supporting structure and it is considered necessary to provide edge protection because of a risk assessment, install handrail posts to the inner legs and guardrails as described in Step 10.



16. The trestle is now ready for use subject to a final inspection.

DISMANTLING THE DECK

Method Statement for dismantling a completed G-DECK

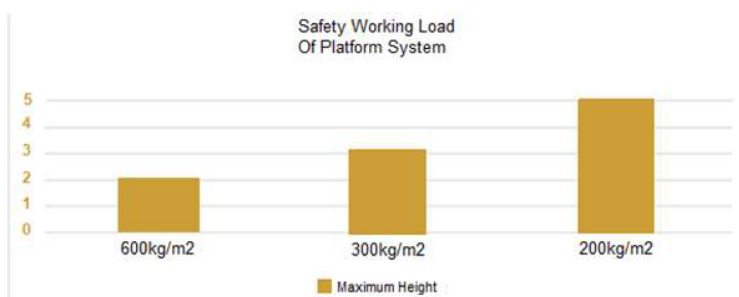
- ❖ Reverse the procedures outlined previously to safely dismantle the platform. Be aware of the following:
- ❖ Access to the platform during its removal should be limited to the individual's responsible for doing so.
- ❖ Only operatives who are familiar with the erection of G-DECK should be responsible for its removal.
- ❖ All material and debris should be removed from the platform prior to dismantling.
- ❖ Components such as toe boards and upper posts should be removed from the platform as dismantling proceeds to avoid excessive localised loadings.
- ❖ Components should be handled to avoid damage during dismantling. Throwing components to the ground is likely to cause damage to either their structure or finishes, shortening service life or rendering them unsafe for use.
- ❖ Once removed components should be neatly stacked ready for removal from site.

WEEKLY INSPECTION SHEET



Customer:		Location:	
Inspection done by:		Date:	
Signature:		Time:	Start: Finish:

Item:	Yes:	No:	Comments:
Ensure all components are free from damage/distortion/fatigue			
The floor is suitable for loading			
The floor is level			
Ensure all legs are upright			
Ensure deck surface is free from debris			
Check cross braces are still secure if installed			
Are buckle straps still secure on make up panels			
Check all decks are level and fins are located			
Ensure working loads are adhered to			
Ensure ladder hatch is closed and secured			



This installation has been carried out by trained installer(s) in accordance with the manufacturers method statement. Any addition, alterations, adaptations or variations (including minor alterations) to the structure may only be carried out by the installer. In the event that the hirer requires any such services then a request must be submitted.