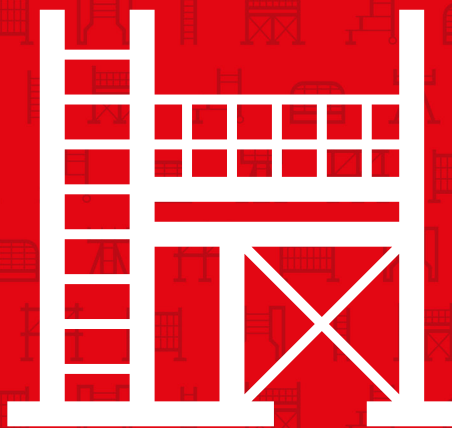


SAFETY DECKING

RHINO DECK

Installation Guide



GENERATION
HIRE & SALE

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Altrad Generation

Shaping The Future Of Construction & Industry.



Altrad Generation is one of the largest suppliers of Scaffolding, Temporary Fencing and Access. Also supplying to multiple sectors in Groundworks, Safety, Edge Protection and within Ireland, formwork and falsework.

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1

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We work in partnership with our suppliers to ensure we deliver consistent quality every time. We guarantee that our hire and sales products will meet and conform or exceed all statutory requirements and not let you down.

2

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We have the largest available inventory of temporary fencing, water filled and pedestrian barrier products. Our branch network and delivery fleet will ensure that we deliver what you need, when you need it.

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We use our position as the largest supplier of scaffolding, fencing and access products to negotiate the best rates for you. We guarantee you will get the best value products and service when you hire or buy from us.

Contents

Introduction

Rhino Loading Deck	3
Load / Impact Testing.....	3
Unrivalled Ease Of Use.....	3
An Enhanced Safety System	4

Wall-To-Wall Safety Platform

Place & Purpose Of Use.....	5
System Loading.....	5
Safety Checks.....	5
Installation	6
Installation (CONT).....	7-10
Raising The Load Deck	11
Dismantling Safety Platform.....	12
Installing A Protected Ladder Access Through A Rhino Deck Platform	13-14

Record Of Inspection Checklist

Checklist.....	15
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Disclaimer & Copyright

Disclaimer	16
Copyright	16

Introduction

Rhino Loading Deck

This unique three-in-one safety platform system offers the optimum solution to difficulties encountered when working at height. For use as a wall-to-wall safety platform, the Rhino Load Deck provides unrivalled versatility, ease-of-use, strength and durability, and cost-effectiveness.

Rhino Deck is available in silver and the deck comes in both standard and heavy duty versions. All variants are totally compatible with all other components.

Its fast install and recovery characteristic provides site operatives with more time to attend to their tasks on site and vastly increases build productivity along with a significant decrease in downtime.

Load / Impact Testing

The Rhino Load Deck system has been fully tested to test procedures set out by the British Standards Institute and wholly complies with the following standards;

Temporary Works Equipment
BS EN 12811-1:2003 section 6.1.3
6.0kN/m² , 6.2.2.3 & 6.2.2.4

Temporary Edge Protection Systems
BS EN 13374:2004.

Unrivalled Ease Of Use

The Rhino Load Deck's composition of lightweight components which lock into place without the need for hand tools or fixings make the Rhino system easy and very fast to install (approximately 50 sqm / hour with only 2 workmen). Its flexibility enables it to follow the wall profile, around L-shapes and irregularities.



Introduction

An Enhanced Safety System

This system not only provides a safe working platform, but allows operatives to load the platform with necessary tools and materials for efficient task expediency.

Offering you a load capacity of up to 600Kg/sqm, Rhino Deck provides your site operatives with more than adequate loading requirement while allowing all site trades to utilise the platform.

Being completely self-supporting, the Rhino system does not rely on external or party walls for lateral support. Its composition of premium grade steel components, coated on all surfaces with a highly durable coating against corrosion, gives us the confidence to offer our clients a 5 year fit-for-use guarantee, providing the product is not abused and the due care instructions contained in the method statement are adhered to.

- Market-leading load deck platform
- Fast and easy-to-install method allows safer working, at heights of up to 4 metres
- Can support loads rated at up to 600kg per square metre at a 3-metre platform height (please see page 12)
- Lightweight components lock into place without the need for hand tools or fixings
- Unique use of materials minimises the weight needed to achieve its strength and durability
- Unaffected by weather extremes
- Needs minimal site space for storage and it is easy to transport from site to site
- Up to four times faster to install than traditional scaffolding
- Does not require standing walls for support
- Can be raised in height by building onto the legs and raising the framework and deck panels
- Supported by the Rhino Deck calculator, an on-line app to quickly calculate your component list
- 5-year fit for use guarantee (subject to conditions).



Wall-to-wall Safety Platform

Place & Purpose Of Use

The Rhino Load Deck System is designed for use inside a building during construction. The system can be installed to provide a safe access platform for site operatives and therefore reduce the risk of fall potential. A completed installation provides a 1.5m platform height for a site plot having an internal width measurement between wall elevations of 6.13m.

System Loading

The Rhino Load Deck System is designed to carry up to 600Kg/m², (men, tools and materials) providing this is evenly distributed across two deck panels. Load weights may not exceed this maximum without written approval.

All loads placed on the system will be transferred directly to the base below and it is therefore an essential requirement that the base is capable of sustaining the combined total weight of the system together with any added load.

The use of sole plates at the base of each leg is recommended. Systems must be installed on a solid level floor with sufficient strength to support characteristic loads. Loading on make-up panels is not recommended.

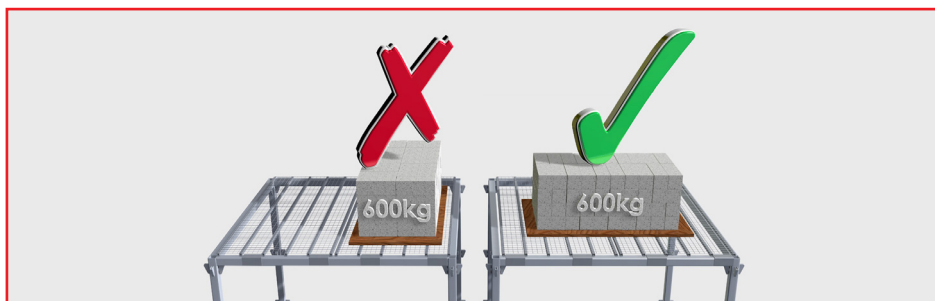
Safety Checks

All components to be used should be thoroughly inspected by the platform installer before use as follows:

- a) Remove build-up of mortar, mud and other debris from components;
- b) Visually examine components for any signs of structural damage, distortion or fatigue.

When the installation is complete, it should be signed off by a trained and competent person. In addition the system should be visually inspected at the beginning of each session by a competent person to ensure that none of the components have been removed or damaged.

Any damaged components or components with excessive mortar build up must be segregated and removed from service.



Wall-to-wall Safety Platform

Installation



Safety platform installation work shall only be carried out by trained personnel who are thoroughly conversant with the requirements of this Method Statement.

A FASET training course is available which leads to a recognised CSCS qualification – please contact Altrad Generation for further details.

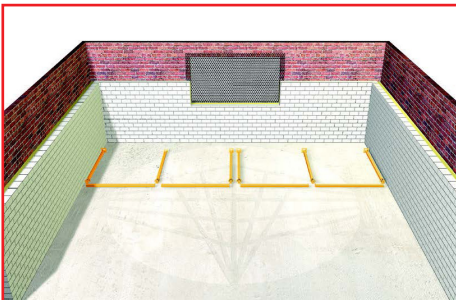
Installers should also adhere to all current Health and Safety Rules, such as the wearing of protective clothing, i.e hard hat, high visibility Vest/Jacket, metal toe capped boots and hand protective gloves.



Ensure that the base is of sufficient strength and of suitable composition to support the system and for the load to be placed on the system. Ensure that the base provides a level surface. Thoroughly clear the base space of all rubbish & debris.

Working from the furthest corner from the plot entrance and starting with the exterior walls lay the legs and cross braces flat on the base across the width of the plot. The gap between the platform and adjacent wall elevations should not exceed 100mm. The make-up panels are designed to bridge gaps of 400mm or less. It is good practice to ensure that gaps to be covered appear in the centre of the installation. It is for this reason that the installation is started at the exterior walls, working inwards. In dealing with irregular shapes every effort should be made to use regular shaped panels fully supported by cross-braces and legs before use of make-up panels.

Should the size or configuration of the site necessitate loading on to make-up panels, make sure that the pallet or load is level by strapping in additional make-up panels to create a level surface.



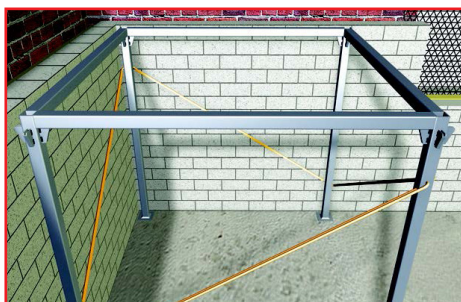
Wall-to-wall Safety Platform

Installation (CONT)



Stand two legs upright, align and insert each fin protrusion into each leg. Note that uprighted legs should never be left unsupported at any time. Legs are available in the following sizes:

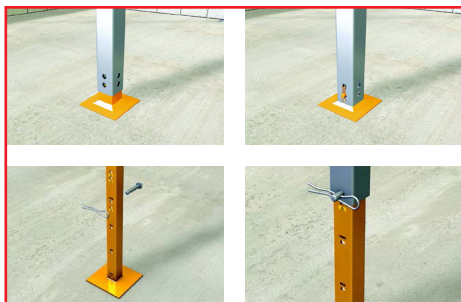
0.5m, 1.0m, 1.5m, 1.8m and 2.0m.



Build up the remaining legs for this platform and insert four Leg Braces. For this application, as illustrated, Altrad Generation recommends four as a minimum for each corner platform in the site plot.

Adjust the Leg Baseplates to achieve a uniform platform level height.

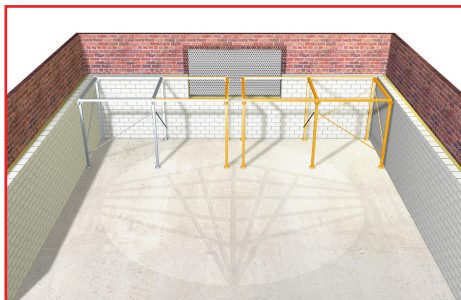
If using the base plate foot extension, select the leg of the right size for the finished platform height, then slide the leg down over the foot to the correct height



Do not use a combination of base plate foot extensions and leg extensions.

Line up with the hole at the selected height and secure with a clip and pin.

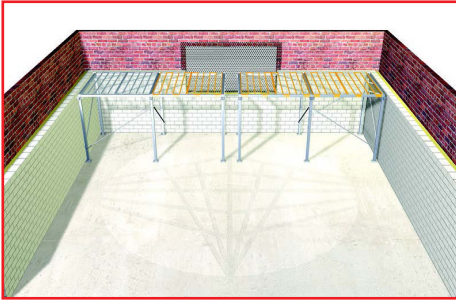
Warning! Only use the height indicated fixing holes as the other holes must remain free for the leg braces.



Build up the remaining platforms across the rear wall, adjusting the overall level and height using leg baseplates.

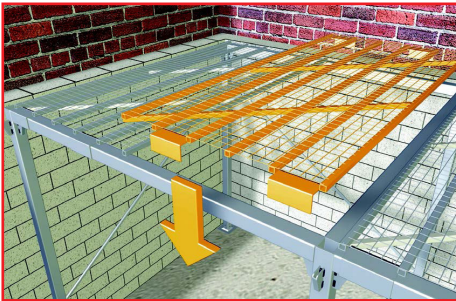
Wall-to-wall Safety Platform

Installation (CONT)



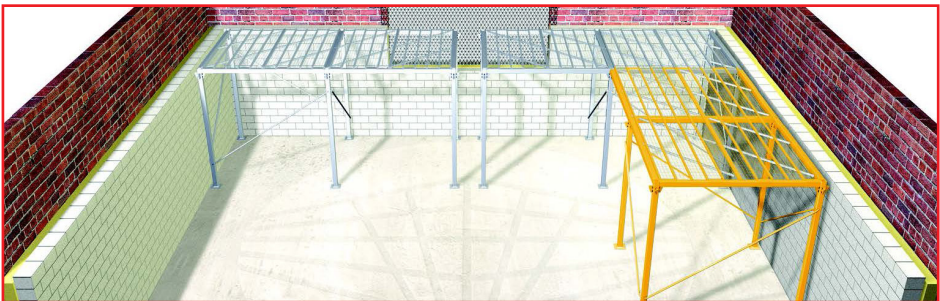
Place Deck Panels on the framework, ensuring that they are correctly positioned and secure.

Provided that the panel will securely interlock as illustrated, and that there are no distortions in the frame that may prevent a safe fit, the panel may equally be installed within the framework rotated through 90°.



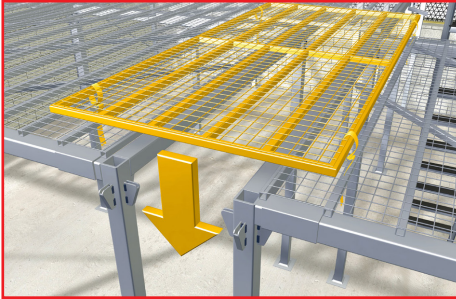
Place Deck Panels on the remaining platforms as shown.

Using a similar process, install platforms along the length of the plot as illustrated.

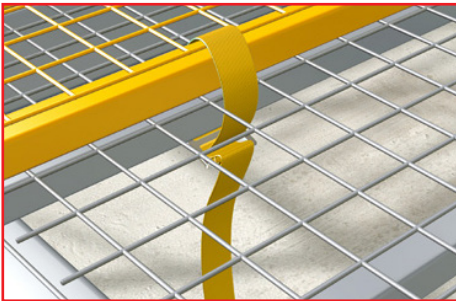


Wall-to-wall Safety Platform

Installation (CONT)

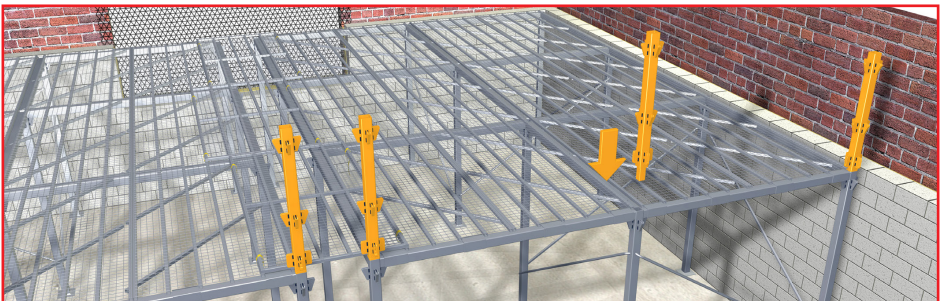
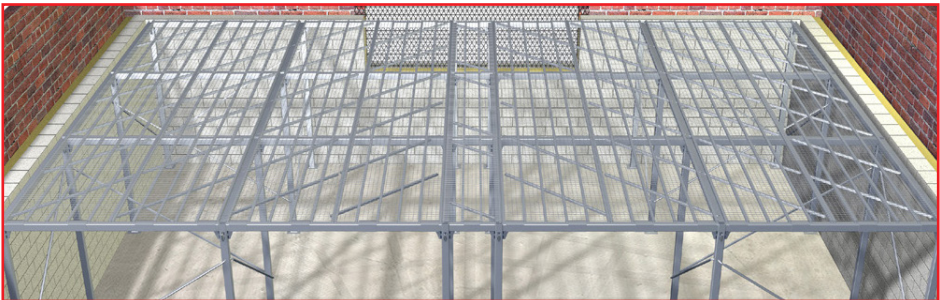


Use make-up panels to bridge gaps of up to 400mm between platforms and secure in place using Rhino Secure Ties, ensuring that the make-up panels are secured at the four corners, one tie at each corner. The makeup panels are designed to be used to bridge gaps between two or more platform systems for non-uniform plots.



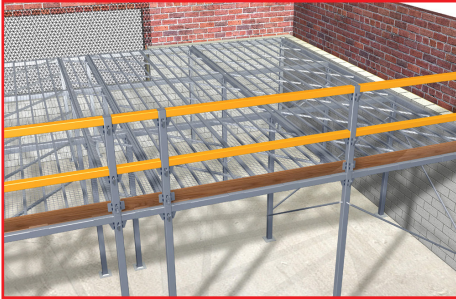
Proceed to install the remaining platforms and make-up panels to create the full working platform for the plot as illustrated.

Install handrail support posts if required.

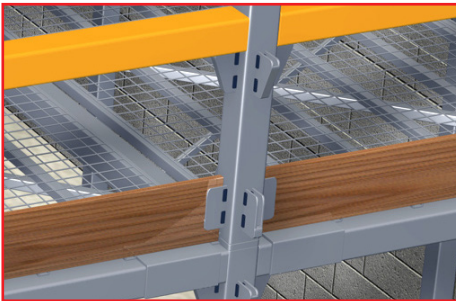


Wall-to-wall Safety Platform

Installation (CONT)

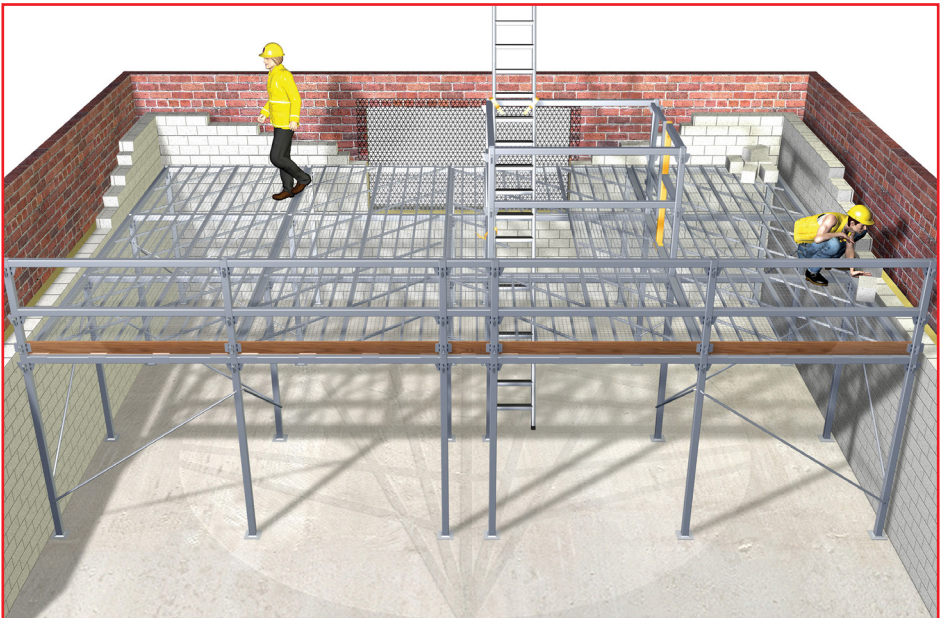


Use make-up panels to bridge gaps of up to 400mm between platforms and secure in place using Rhino Secure Ties, ensuring that the make-up panels are secured at the four corners, one tie at each corner. The makeup panels are designed to be used to bridge gaps between two or more platform systems for non-uniform plots.



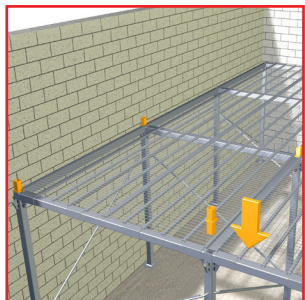
Proceed to install the remaining platforms and make-up panels to create the full working platform for the plot as illustrated.

Install handrail support posts if required.



Wall-to-wall Safety Platform

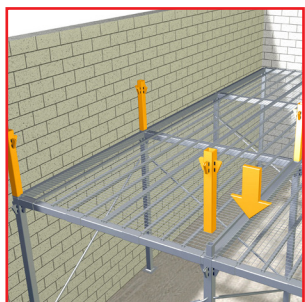
Raising The Load Deck



To raise the load deck remove any handrails and from the base, insert connection spigots into all four corners of one complete deck section.

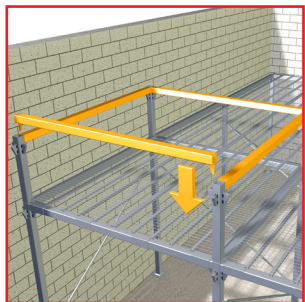
Next, insert the required extension leg into the tops of the spigots and ensure that they are seated securely.

Insert the 4 cross braces to the extensions and push securely into place.



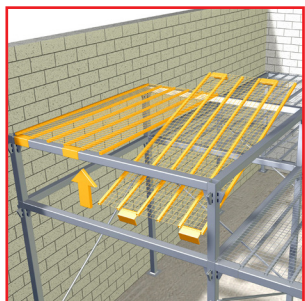
Finally, lift the deck panels one at a time, either around or through the extension and secure into place at the higher level. If required, this process can be repeated across the full structure until the entire platform sits at the new required level. This method negates the need to dismantle and reassemble the platform for use at a greater height.

Once the entire platform is raised, bricklayers and workmen can operate safely and without the risk of falling, thereby increasing build productivity.



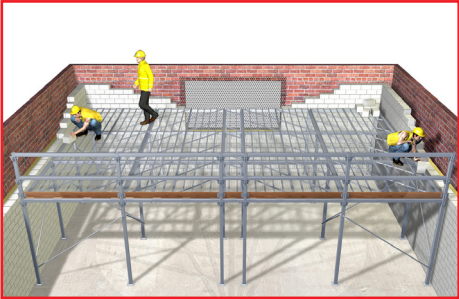
This method of construction also allows for Supports and Extensions to be added on an “as needed” basis. This allows sections of the platform to remain at the initial height, whilst other sections are raised.

When raising the platform never work near any exposed edges of the platform without using an alternative form of fall protection such as AirDeck.



Wall-to-wall Safety Platform

Dismantling Safety Platform

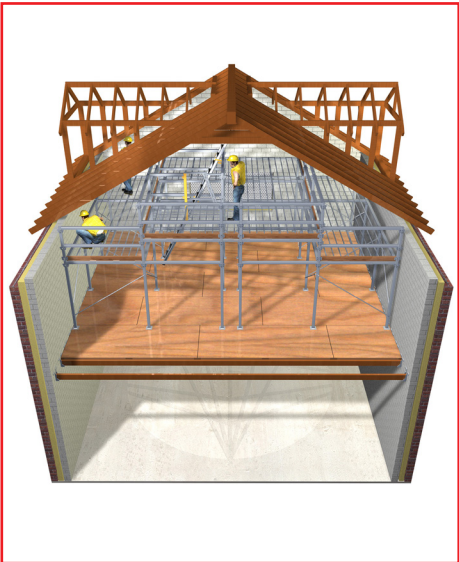


Clear the entire platform of all building materials, tools and debris.

Remove timber handrails, guardrail gates & handrail support posts.

Working from the base, remove make-up panels & deck panels.

Disconnect and remove all leg braces.



Carefully remove cross braces, one at a time, and lay unsupported legs on the ground. Upright legs should never be left unsupported at any time.

All components should be inspected for damage whilst being dismantled. Any damaged components should be stored separately for repair or replacement by Altrad Generation.

Any components with excessive dirt or mortar build up should be cleaned and checked for damage.

Components should be packed, stored and transported in stillages available from Altrad Generation.

Safe Working Load of Platform System*

600Kg/m² at a maximum height of 3.0m
300Kg/m² at a maximum height of 3.5m

150Kg/m² at a maximum height of 4.0m
Refer to Altrad Generation for heights over 4.0m

***Including Workers, Tools and Materials**

Wall-to-wall Safety Platform

Installing A Protected Ladder Access Through A Rhino Deck Platform

Standing below the installed decking, select the bay where you wish to install the access point. Remove one of the two Rhino Deck panels.

Remove the 1280mm cross brace that now has no panel adjacent to it.

Slide the shoe of the sliding handrail post, over the cross-brace to about mid-way, ensuring the fins point down and the handrail post points up.

Replace the cross brace, with the sliding hand-rail attached and replace the deck panel.

Safely accessing the deck from above, insert handrail posts at all four corners of the selected bay.

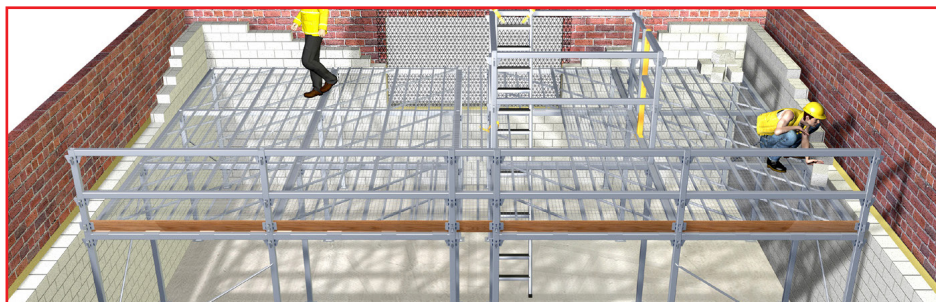
On all sides with no sliding hand-rail post put in 1280mm cross-braces in the top and middle locations.

On the side with the sliding hand-rail post, put in a 640mm cross-brace in the top and middle location between one corner post and the sliding hand-rail post. In the remaining gap install a gate with the hinge located on the corner post, making sure that it opens inwards.

From below remove the deck panel adjacent to the sliding hand-rail post and install a ladder inclined so that the top of the ladder rests against the cross-brace running at right angles to the corner post supporting the gate.

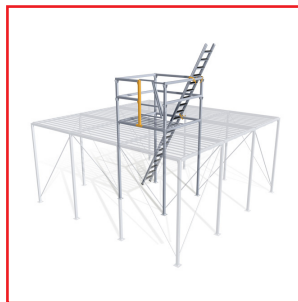
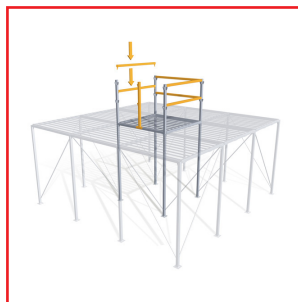
Using Rhino Deck ties, secure in place to the supporting cross-brace at the top, and to the cross-brace at deck level.

You can now safely access the deck from below using the ladder and the access gate.



Wall-to-wall Safety Platform

Installing A Protected Ladder Access Through A Rhino Deck Platform



Record Of Inspection Check List



This document is to be signed off by the site manager and kept as a matter of record.

Project : _____

Location: _____

	Name	Position	Company	Date
First Check				
Second Check				
Third Check				

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