

ISCHEBECK®

TITAN

Climbtrac

Method statement

Method statement Climbtrac

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Introduction

Ischebeck Titan is renowned as one of the leading manufacturers and suppliers of equipment to the construction and civil engineering industries.

Our commitment to safety and site efficiency is evident in the design performance and quality of our products, which offer safe access and secure working platforms for an enormous variety of applications.

The enclosed method statement underlines our devotion to site safety by providing recommendations, based on tried and trusted methods, for the proper use and application of Ischebeck Titan's Climbtrac system.

Please take time to read and understand the information presented before using the products covered. If you need further advice or assistance consult a suitably qualified person within your own company or contact Ischebeck Titan.

Disclaimer

The methods presented in this document are solely for the use of Ischebeck Titan equipment and are intended for guidance only. When familiarity has been gained with the equipment preferred methods may be adopted, provided they do not contravene health and safety regulations or accepted safe working practices. The information is correct at time of publication, but Ischebeck Titan reserves the right to change, without prior notice, the specifications and methods mentioned. No responsibility whatsoever can be accepted for any errors or omissions in, or misrepresentation of, the contents. For specific information refer to Ischebeck Titan Limited.

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Site safety is your responsibility

The importance of site safety cannot be over emphasized. You have a responsibility to yourself, your colleagues, site visitors, family, friends and others to ensure you do not injure yourself or take actions, which put the lives and health of other people at risk.

Site safety rules will form part of every site's health and safety plan. You should familiarise yourself with these rules and make sure that you and fellow workers do not contravene their requirements. A prominent notice will identify personnel with overall responsibility for site safety.

You will have contractual and legal obligation to follow these rules and adhere to relevant legislation, such as the Health and Safety at Work Act, which place specific responsibilities on you and your employer to prevent accidents.

Site safety is the responsibility of everyone on site. If you have a reason to believe that safety is being compromised, you should report it to the appropriate personnel.

Your responsibilities

Following are a few suggestions to help you work safely and contribute to safety on your site:

- Make sure you fully understand the safe and proper way to do any job.
- If in doubt, ask your supervisor – do not guess.
- Always conduct yourself in a responsible and safe manner.
- Do not expose others to danger through your actions.
- Always use the correct tools and equipment for the job.
- Always use the appropriate safety equipment and protective clothing.
- Report ALL defects in plant and equipment.
- Observe and comply with warning and hazard notices.
- Advise newcomers of safe working practices.
- Make sure you know where to go for first aid treatment.
- Report any injury and ensure it is entered in the accident book.
- Never indulge in horseplay or practical jokes at work.
- Never attempt to work whilst under the influence of alcohol or drugs.
- Make sure you have read and understood the sites health and safety requirements.
- Report any situation which might compromise site safety to the sites safety officer.

Safe working practice

- Consider health and safety first. If you are not sure of procedures ask.
- Do not take shortcuts – use the access provided.
- Do not remove handrails or ladders from scaffolds unless instructed to do so and replace them as soon as possible.
- Play your part in keeping the site tidy and safe.
- Look out for hazard warning notices and obey them.
- Never attempt to operate machinery unless you have been trained and authorized to do so.
- Attempting to lift heavy objects or materials can cause injury – obtain assistance where necessary.
- Study you company's policy.
- Remember you have a legal duty to take reasonable care of your own health and safety and to avoid placing other people at risk. Such as those who work with you and members of the public.
- If in doubt about your job, ask your immediate supervisor for guidance.
- Your co-operation in discouraging children from entering the site will help to reduce the risk of accidents to them and others.
- Remember that entering an unsafe area could render you liable to prosecution. If it looks or feels unsafe, report it. If you are unsure, ask site supervision for advice.

Personal protective equipment

For your protection, always use the safety helmets, ear protectors, face masks, goggles, gloves, safety harness and other items of personal protective equipment appropriate to tasks you are undertaking.

When protective clothing and/or equipment is issued to you:-

- Wear or use the equipment when required and when there is any possibility of personal injury in the course of your work.
- Look after the equipment.
- If the equipment is on personal issue, store it carefully and ensure that it is available for use when needed.
- Make sure that equipment is properly maintained.
- Replace defective equipment immediately.
- If you have any doubts about the correct use, adjustment or maintenance of the equipment, ask your supervisor.

Brief description

Climbrac is a vertical track based system, which enables contractors to move a working platform, together with necessary formwork, up the face of a building without the need to disconnect and reconnect the system to the structure itself.

Suitable for use on vertical surfaces, such as lift shafts, stair walls, columns and external perimeter walls, Climbrac has been designed to allow for the safe crane lifting of platforms together with wall forms, whilst remaining captive on the concrete structure during lifting operations.

Climbrac comprises a pair of triangular frames, with guide wheels and catching devices for support, which run up a vertical track of two steel beams bolted in sections to the building's wall by means of a cone and bolt arrangement (cones are recovered as work progresses, whilst the bolts remain cast into the final structure).

Platform support channels are connected to the frames to support the working deck and shutter rolling equipment. This equipment consists of levelling brackets and wheels which run on two guide tracks located on the deck to allow the shutter to be rolled to and from the face of the structure being formed.

Safety screens connected to the rear and side of the platform with HT bolts complete the system.

During construction, the Climbrac system is lifted vertically along its track by crane. When one storey is complete, the shutters are simply rolled back from the concrete face, new track sections are fitted and the system hoisted to the next storey. Track sections can either be left in place for removal at a later stage of the project or removed from the platform and passed through trapdoors for use on subsequent levels as construction progresses.

Climbrac not only offers the potential for time and cost savings through more efficient working methods, but also makes a significant contribution towards safety as it obviates the need for potentially dangerous manoeuvring of the formwork system from the building during construction.

Technical specification

Lifting Eye Capacity

Front ~ 3 Tonne SWL
Rear ~ 2 Tonne SWL

Recoverable Anchor Cone Capacity

294 kN proof load tested
Working Load at 6:1 F of S = 49 kN
Note: 2 Cones per track /frame
4 Cones per Platform

Permissible pull out load on cast in bolt = 21.50 kN per bolt @
Minimum concrete strength for Lifting ~ 15 N/mm²
Shutter track rolling gear locked off as per instruction ~
12.5 kN @2:1 Factor of Safety per roller assembly

Working Deck Allowable Loads

Reinforcing ~ 500 kg in front of Shutter near wall.
2.5 kN/m² over remainder of deck.

No Materials to be on the Platform when lifting unless designed specifically, check method statement for this information.

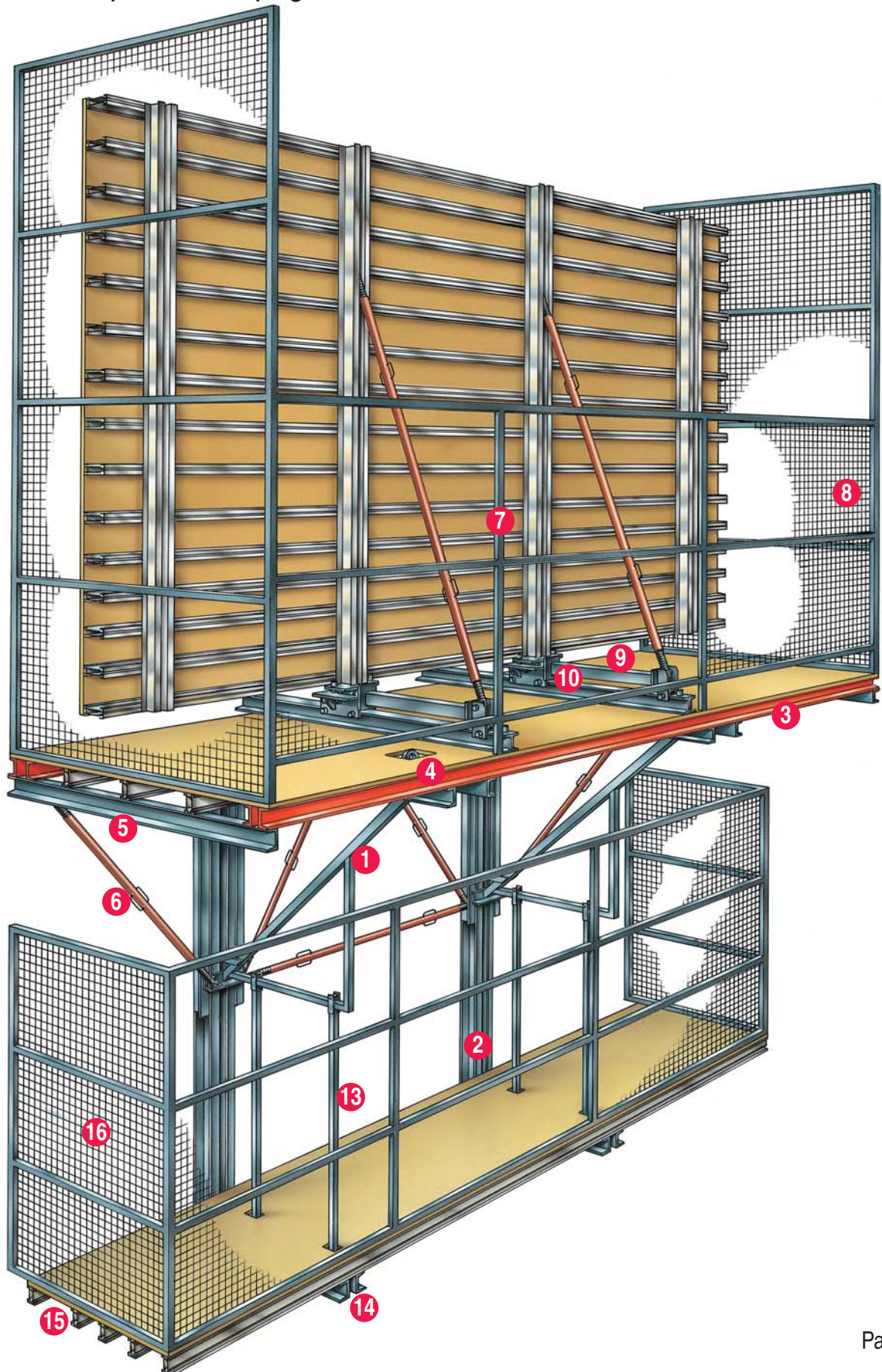
Suspended external platforms ~ 1.5 kN/m²
Suspended internal platforms ~ 2.5 kN/m²

All other decks to be subject to Engineers approval.

THE CLIENT TO ENSURE THAT THE WALLS ARE CAPABLE OF WITHSTANDING LOADINGS INDUCED ON THEM FROM THE PLATFORMS IN THE TEMPORARY CONDITION PRIOR TO THE INSTALLATION OF SLABS, STAIRS AND LANDINGS

Components

For descriptions see page 7



Component description

External Platforms

1. Frame

The frame consists of a triangular structure having Guide Wheels and a load catching device for support.

2. Track

The vertical steel track is bolted directly to the wall. It holds the Climbrac frame securely to the face of the structure and facilitates positive alignment and vertical travel of the system during construction

3. Platform Support Channels

These are members to support the deck and the shutter rolling equipment.

4. Lifting Lugs

The lifting lugs are bolted to the platform support channels over each support 'frame' and allow the mandatory use of 4 chains for lifting.

5. Platform Brace / Platform Channels

The platform brace / channels are fixed to the underside of the platform support channels to facilitate the fixing of the diagonal bracing.

6. Bracing

Bracing is both horizontal and diagonal and is fitted between each 'frame'. (RSK adjustable props are utilized for bracing)

7. Handrail Posts

Handrail posts are bolted to the platform support channels to facilitate the fixing of the screens

8. Screens

The safety screens are 3000mm high at the rear of the platform and 4000mm high at each end of any platform. The screens are attached to the handrail posts by 16 dia H.T. bolts.

9. Shutter Rolling Gear Assembly

The shutters are mounted on shutter rolling equipment which runs on 2 tracks per platform. The shutters can be rolled back from the face by up to 700mm to facilitate cleaning and steel fixing.

Shutter Rolling Equipment comprises special levelling brackets and wheels to allow movement of the shutters. They are fitted with mechanical stops and locking bolts to prevent movement when not in use.

10. Shutter Guide Track

The shutters are mounted on shutter rolling equipment which runs on 2 tracks per platform to allow the shutters to roll back by up to 700mm from the face of the structure being formed.

11. Cones

The cones are used together with cast in bolts to secure the system to the wall. There are 2 cones and bolts per track section per floor level. The cones are recoverable but the bolts are a lost item. Only Ischebeck high tensile cones are to be used.

12. Cone Removal Tool

This tool allows the removal of the cones from the cast in bolts and this operation is carried out after removal of the tracks.

Description (continued)

Suspended Platforms

13. Hangers

Hangers are hung from the frames / platform brace to facilitate the fixing of the suspended platform

14. Platform Angle

Platform angles are fixed to the bottom of the hangers in pairs to provide horizontal members for fixing the deck to.

15. Decking Beams

TW150 beams are used as decking members fixed to the top of the platform angles ready to receive the plywood deck.

16. Screens

Screens to the suspended platform are bolted down to the plywood deck at the base and fixed to the frames at the top with U bolts.

Note:

Items 18, 19 and 20 can be supplied as adjustable components as long as the internal core dimensions do not exceed 3.5m in any direction with minimum dimension being 1.8m

Internal Platforms

17. Pocket Formers

Pocket formers are cast into walls to provide support to the internal platforms

18. Main Bearers

Main bearers consist of a 150 x 100 box section complete with flipper arrangement at each end. The flippers locate into the pocket formers to support the internal platform

19. Main Deck Support Beams

The main deck support beams are bolted to the top of the main bearers and consist of 150 x 75 channels in pairs. They provide support to the corner support channels.

20. Corner Support Channels

The corner support channels are bolted to the top of the main deck support beams and provide support to the corner panels when forming a shaft box shutter. They again consist of twin 150 x 75 channels with welded plates at each end to locate the adjustable shoring jacks.

21. Internal Suspended Platform

The internal suspended platform is formed out of aluminum TW150 beams. The platform is suspended from the main platform by tie bars and nuts. These support a "U" head into which the platforms main TW150 primary beams sit.

22. Internal Corner Panels

The internal corner panels ease striking of internal shutters and provide lifting points for the internal platforms.

23. Corner Catch Angles & Clamps

The corner catch angles are bolted to the waling of the internal shutters and this allows the forms to be clamped to the internal corner panels.

Standard erection procedure (or: Assembly of the system)

Off site

The Platforms may be part pre-assembled off site in Ischebeck Titans factory ready for delivery to site.

Pre assembly of external platforms will consist of the main platform deck, shutter guide rails, lifting lugs and RSK prop braces. Climbtrac frames can also be fitted but limit the number of platforms that can be transported to site on one wagon.

Pre assembly of the internal platforms can only take place if the size is suitable for transportation otherwise assembly will be on site.

On site

We have provided a series of drawings showing platform assembly details for the erection of components on site.

Items to be site fixed include shutter rolling gear assembly, screens and suspended platforms. The platform will be decked out with plywood on site pre installation. Pockets to be positioned in the ply deck for repositioning track (see recovery of track procedure and fig 10a). Shutters can be pre assembled off site and then bolted to the rolling gear. RSK Push Pull Prop alignment rakers are also site fixed.

Ischebeck Titan will provide a site supervisor during the initial site assembly to advise site personnel of the correct methods to be adopted in erecting the on site fixed items.

Fixing Track to wall

Cast anchors into the wall as shown in figs. 1 & 2 when pouring the level which the track is to be fixed to. (see Ischebeck drawings for positions)

Track to be lifted into position by the tower crane.

Use Cherry Picker/mobile access tower or ladder to access top of track to bolt it to the wall with 2 No M24 x 60 bolts.

See figs. 3 & 4 for details

ANCHOR POSITIONS BOTH ON PLAN AND SECTION ARE CRITICAL TO THE SMOOTH RUNNING OF THE SYSTEM. SITE TO ADOPT A CHECK PROCEDURE TO ENSURE ANCHORS ARE IN THE CORRECT POSITION AS SHOWN ON ISCHEBECK DRAWINGS PRIOR TO CASTING THE WALLS

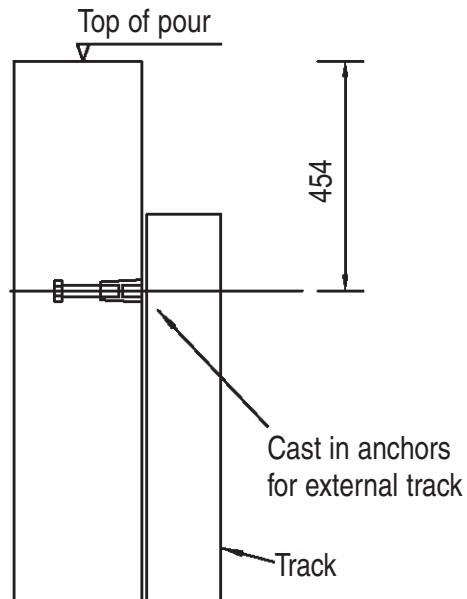


fig. 1

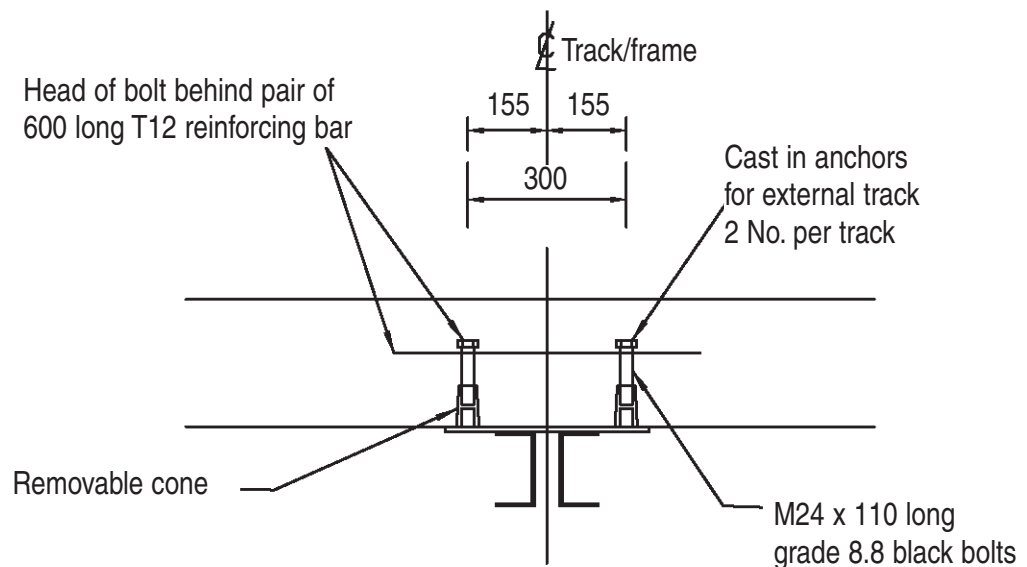


fig. 2

fig. 3

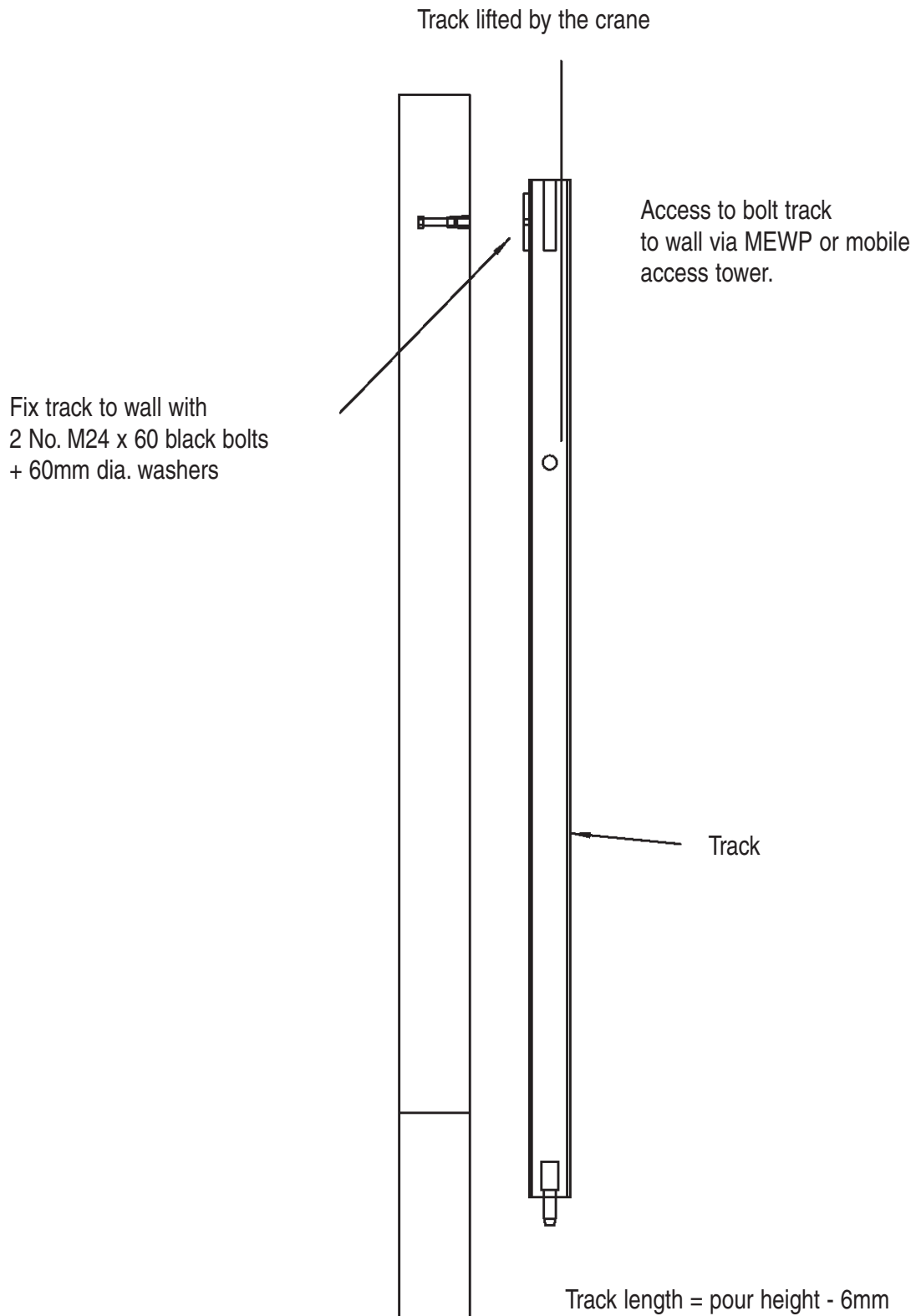
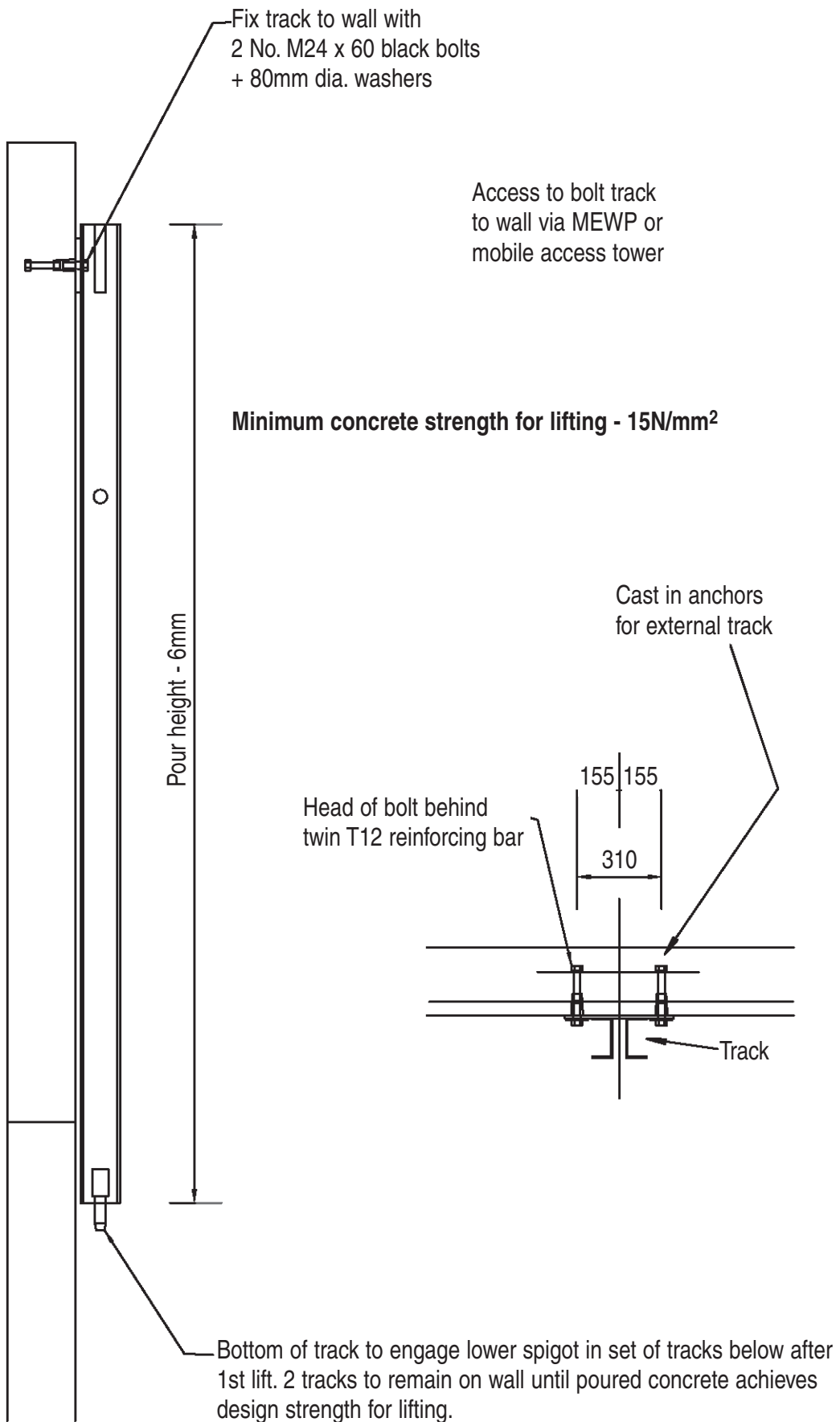


fig. 4



Assembly of external platforms and shutters

Wall formwork can be either traditional soldier and horizontal waling system with plywood face or a propriety panel system.

fig. 5

Internal platform or access scaffold to be used for access. Safety harness must be used during this operation

Lift main platform into position utilising 4 leg chains with the flipper tied back in the cocked position.

Operative to guide the platform frames onto the track

When flipper reaches the track and passes over spigot box release it so that it can engage on the track pin.

Operative may now access the platform whilst still wearing the safety harness to remove the chains.

Internal platform assembled at ground and lifted into position by tower crane

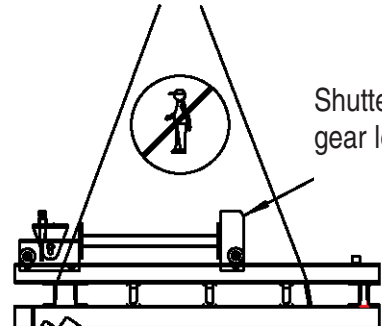
Operative must wear safety harness



Internal platform or temporary scaffold. Suitable access required.

4 leg chains

Shutter rolling gear locked off



Prefabricated platform assembly

Flipper tied in cocked position released from internal platform or MEWP when at same level as top of track

Track

With internal platform or scaffold in position, lower frames over track and engage flippers on pin in track. Remove crane hooks from frame. Operative must wear harness during this operation.

fig. 6

Fix safety screens to the platform whilst still wearing safety harness.

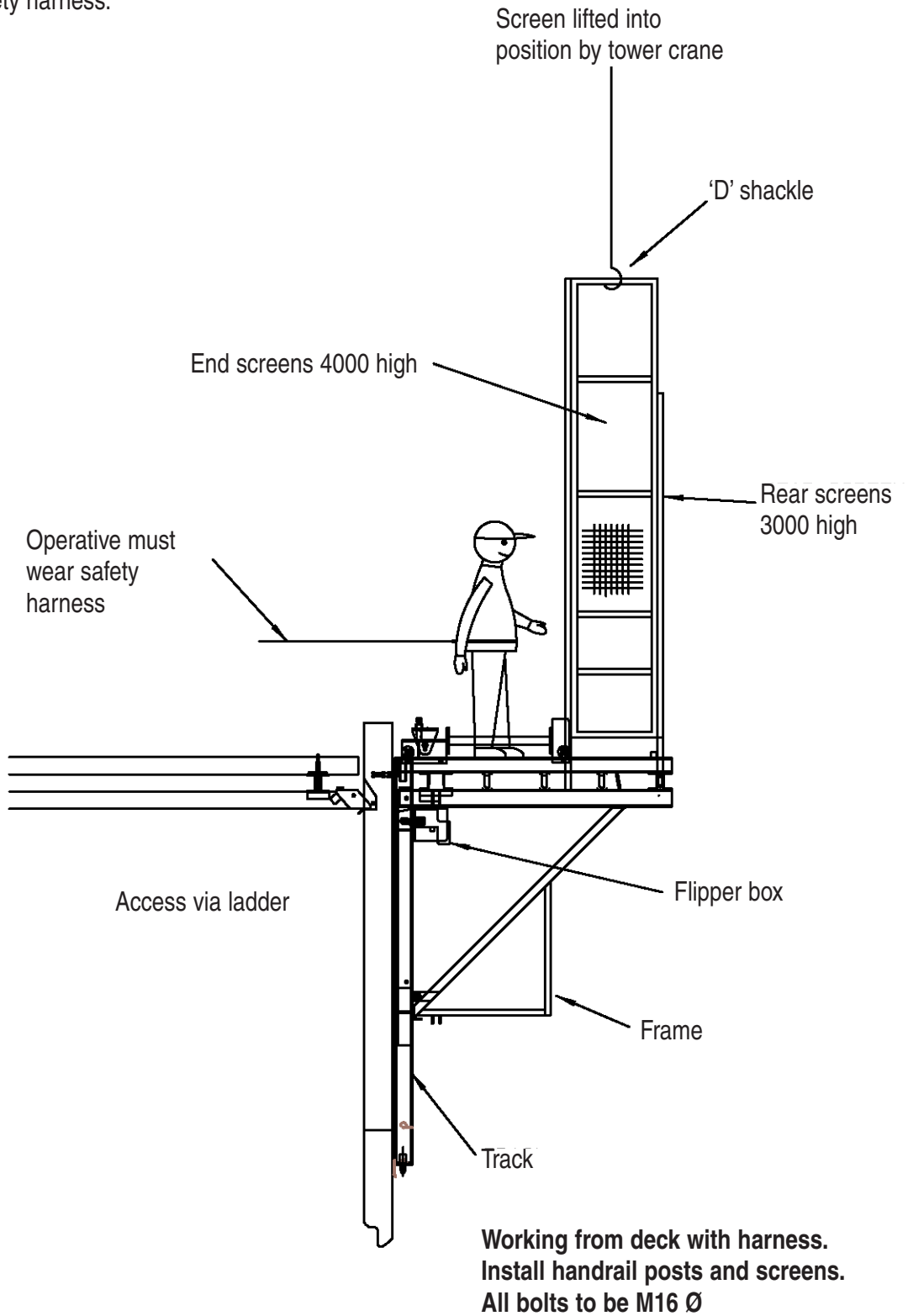
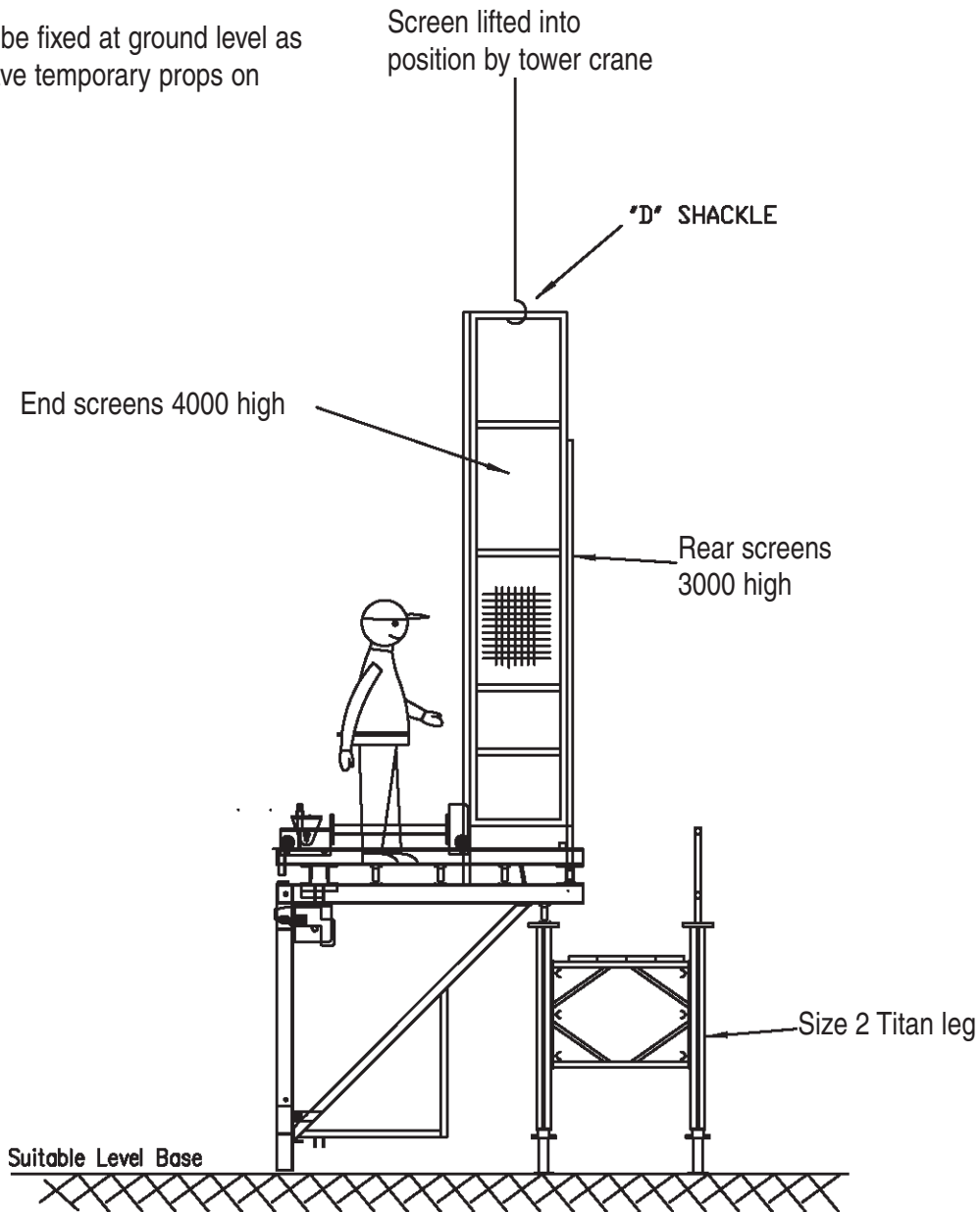


fig. 7

Screens can also be fixed at ground level as long as frames have temporary props on outside edge.

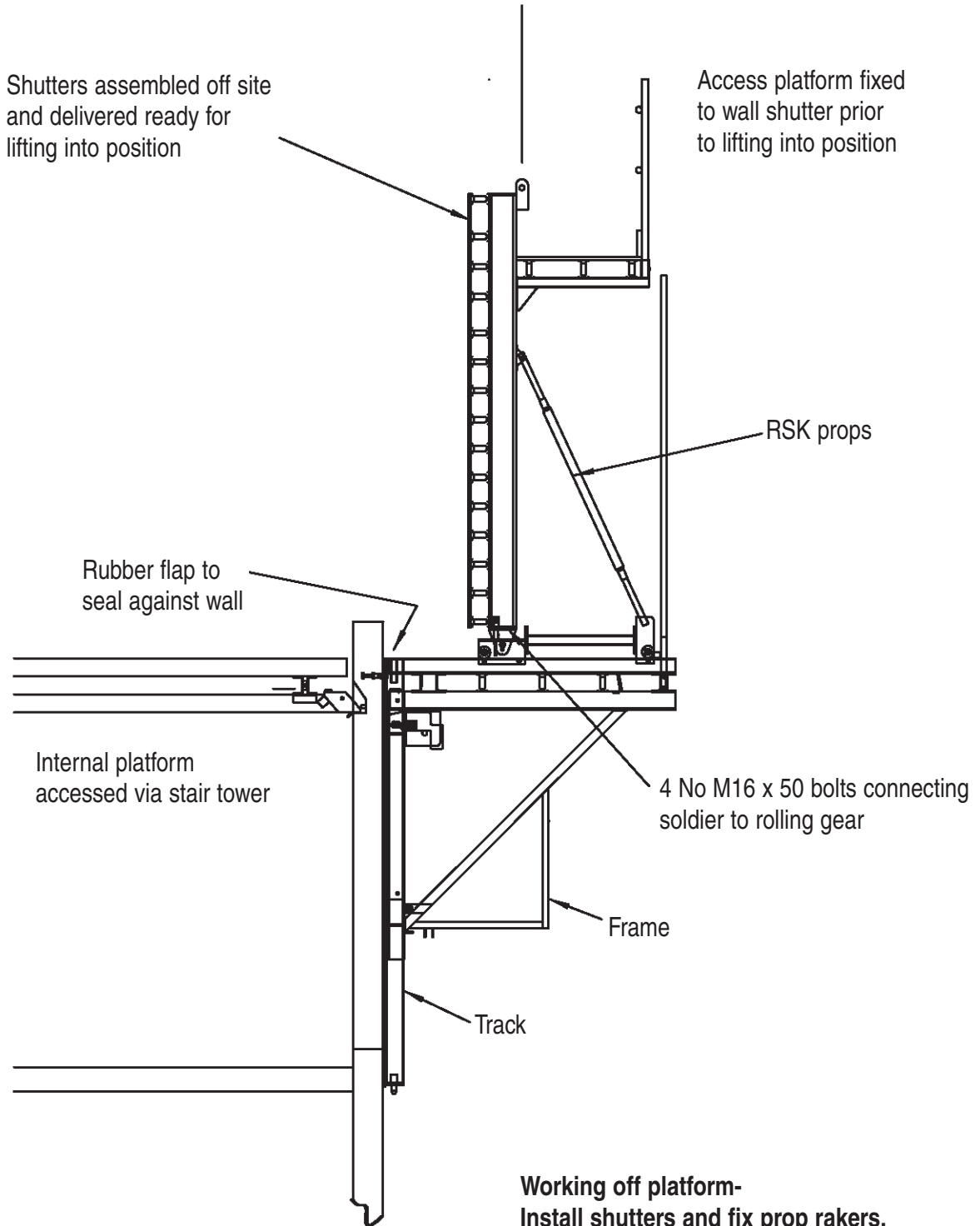


**Working from deck with harness.
Install handrail posts and screens.
All bolts to be M16 Ø**

fig. 8

Shutters to be lifted into position with external access prefixed utilising the soldier lifting plates.

Lift wall form using propriety lifting plate only

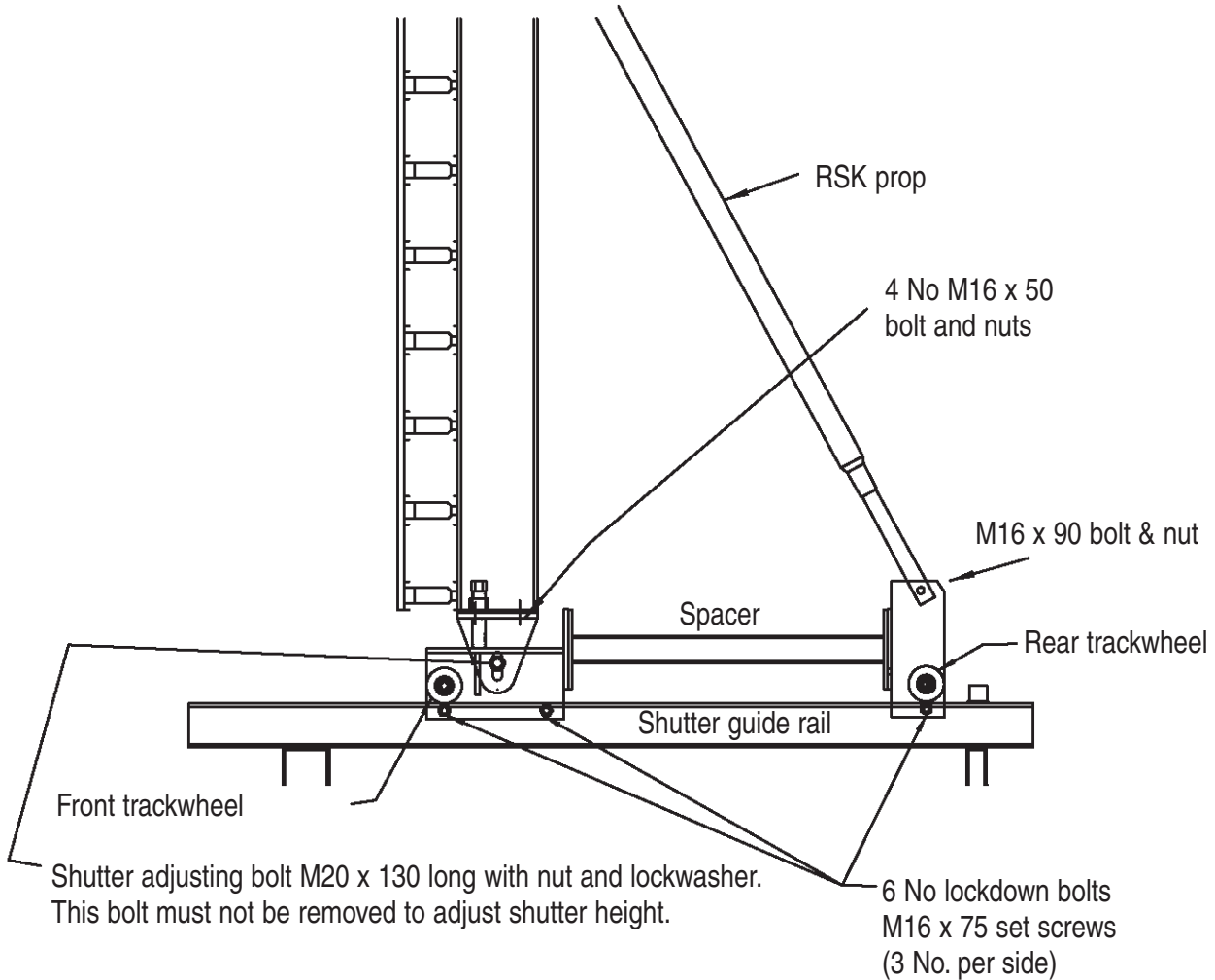


Working off platform-
Install shutters and fix prop rakers.
Install with rolling gear in struck position.

fig. 9

Bolt soldier to shutter rolling gear with 4 No M16 Bolts and position RSK prop raker for alignment.

Fix RSK prop to upper section of wall form with suitable fixing plates and bolts.



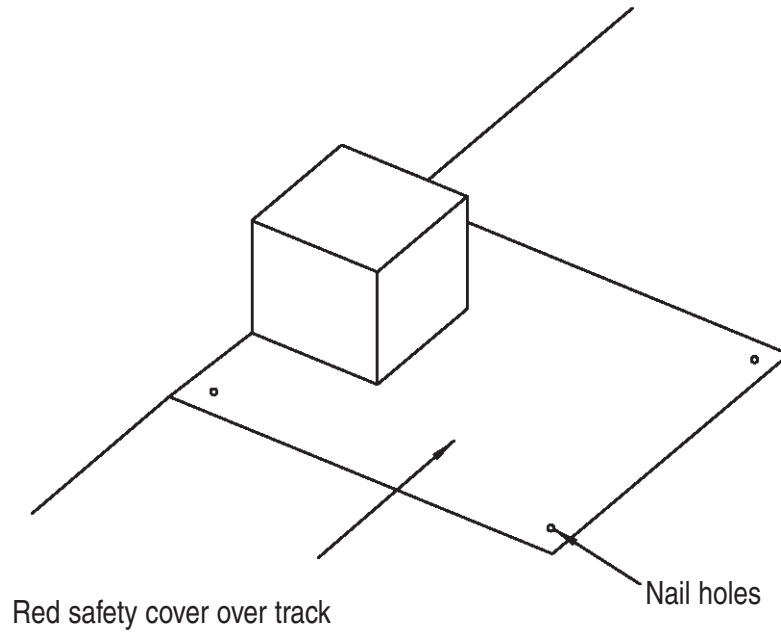
Rolling gear is fixed to guide rail by lockdown bolt.
These must remain locked at all times other than when rolling shutters back or forwards.

**Shutter rolling gear is delivered to site pre-assembled.
Consists of front and rear trackwheel plus spacer.**

fig. 10

Fix track covers to protect track.

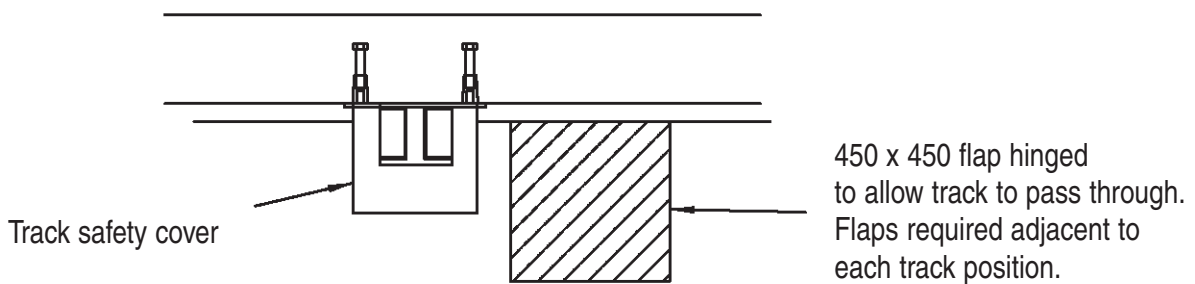
Fit rubber flap to internal platform edge to seal against the wall.



The safety cover covers the hole on the platform where the track protrudes through the upper deck.

It is very important to use the covers as they protect the track from concrete spillage which may prevent the frame from freely rolling up it.

fig. 10a



Assembly of external suspended platform

When the system is used on external walls the lower level of track can be recovered from a suspended platform below the main working platform.

The suspended platforms are to be inspected and signed off by the sites temporary works coordinator before use.

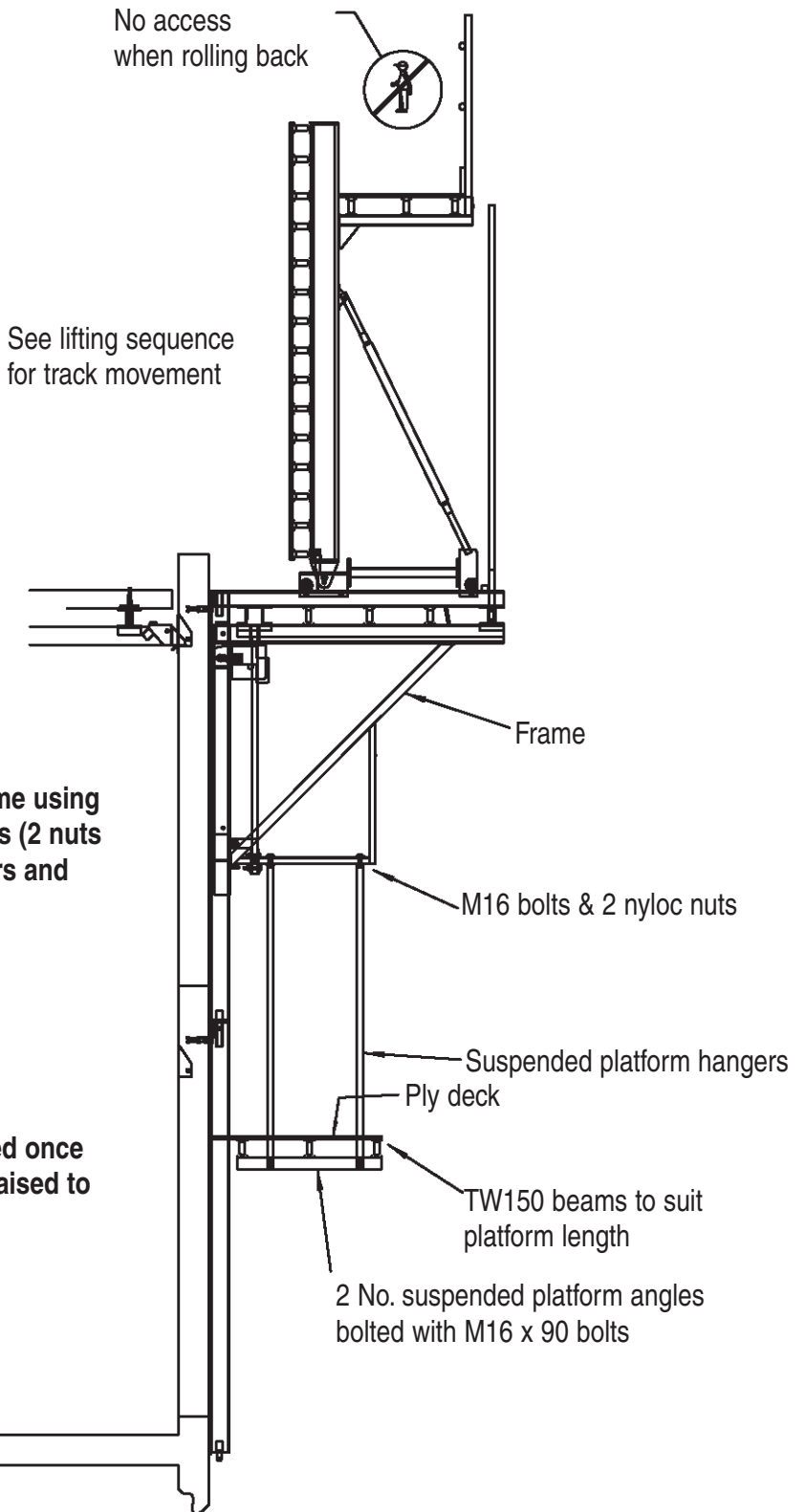
fig. 11

Working off MEWP or scaffold access tower.

Bolt on hangers using M16 bolts and 2 Nyloc Nuts per bolt.

Bolt on suspended platform angles using M16 bolts.

Fit Titan TW150 beams to length of platform and bolt to support angles using Titan Clamps.



Fit 2 hangers to main frame using 2 No. M16 x 120 long bolts (2 nuts per bolt) including spacers and clamp plates.

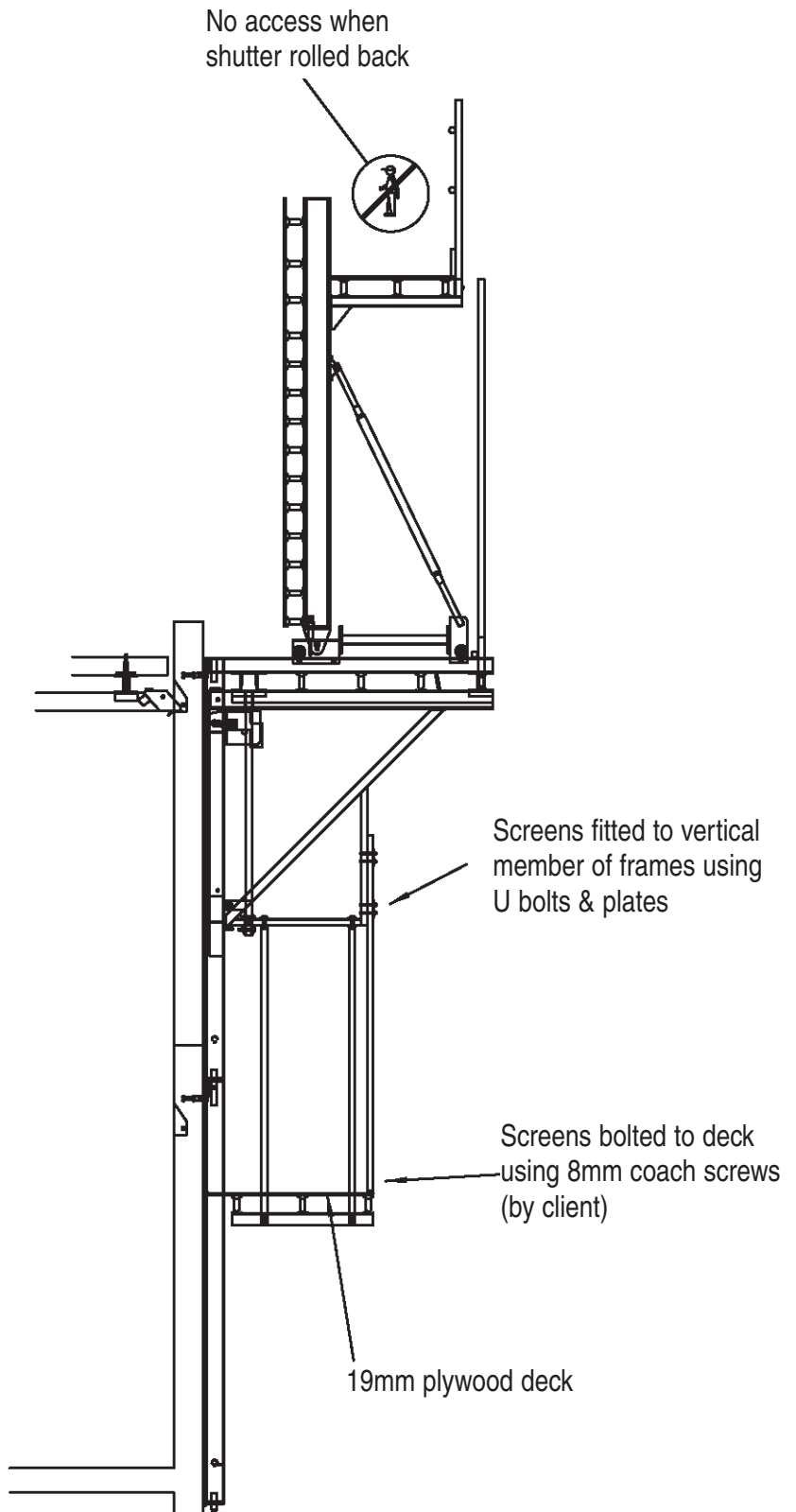
Suspended platforms fixed once main platform has been raised to 2nd level

Suspended platforms to be fixed via slab, MEWP or scaffold access tower

fig. 12

Fit deck with plywood to within 50mm of wall and rubber flap to edge. Cut and make trap door to allow track to pass.

Fit screens to deck using 8mm dia. coach screws through bottom screen rail to ply deck and clamp screens to vertical member on main frame using 'U' bolts and plates as specified on drawings



Suspended platforms to be plyed out and screens erected by means of MEWP and/or scaffold access tower.

Assembly of internal platforms and shutters

Wall formwork can be either traditional soldier and horizontal system with plywood face or propriety panel system.

Assembly method of forms will vary depending on wall formwork system used.

Shutters to be prefabricated off or on site by main contractor ready for use.

Fit lifting plates to shutters (if not prefixed)

fig. 13

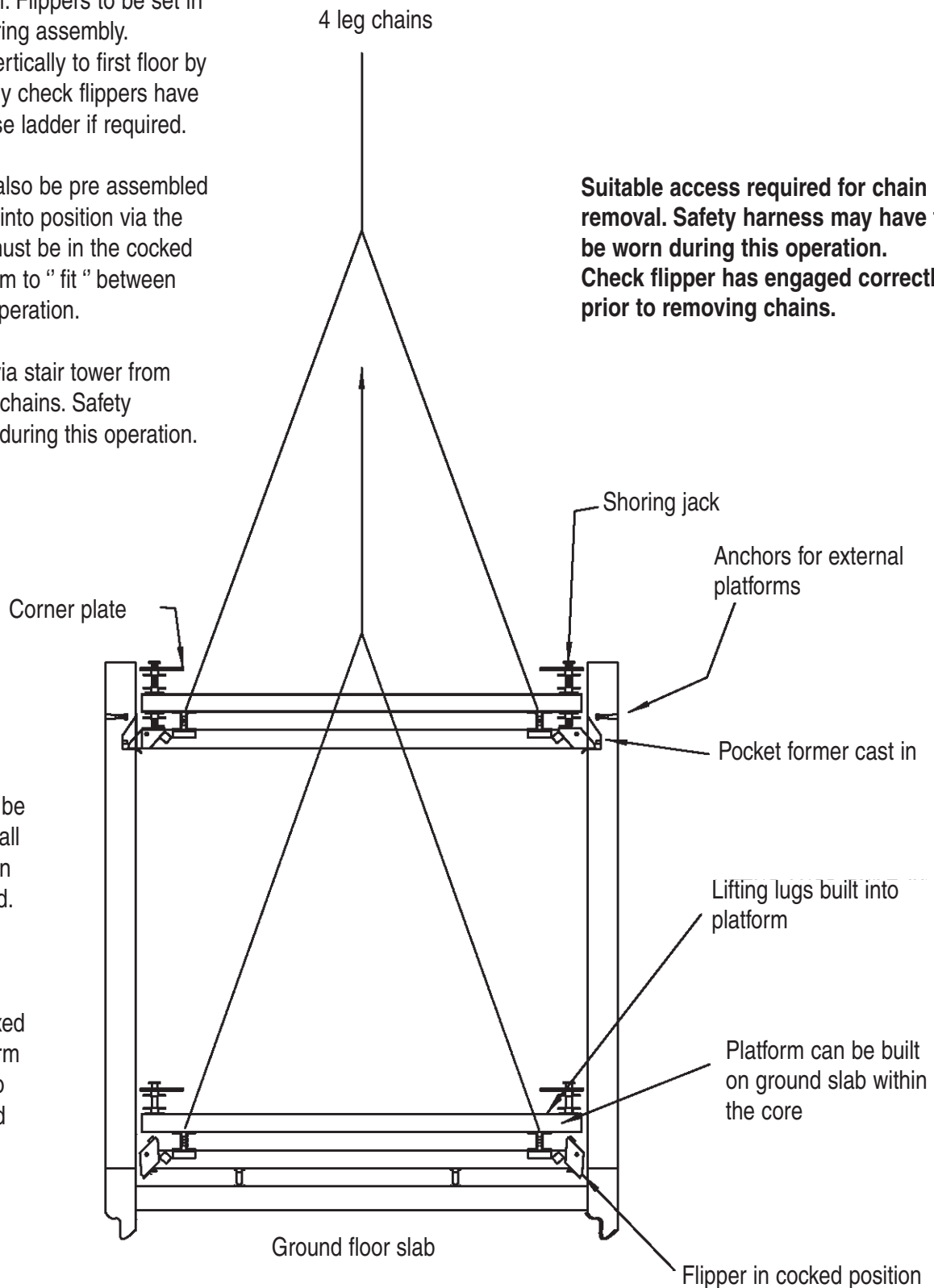
Internal platforms can be assembled within the core at ground level. Flippers to be set in the cocked position during assembly. Platforms to be lifted vertically to first floor by the tower crane. Visually check flippers have engaged in pockets. Use ladder if required.

Internal platforms can also be pre assembled on or off site and lifted into position via the tower crane. Flippers must be in the cocked position to allow platform to "fit" between walls during lowering operation.

Access platform deck via stair tower from ground slab to release chains. Safety harness must be used during this operation.

Internal shutters not to be lifted into position until all external platforms are in position fully assembled. (ie. screens fixed.)

Suspended internal platform can only be fixed after the internal platform has been lifted twice so that it clears the ground slab.



Suitable access required for chain removal. Safety harness may have to be worn during this operation. Check flipper has engaged correctly prior to removing chains.

fig. 14

Shutters to be prefabricated off or on site by main contractor ready for use.

Fit lifting plates to shutters (if not prefixed)

Assemble shutters on ground slab to form box " and fit push pull props horizontally in both directions at both levels. Temporary propping of shutters required by contractor during this operation until all RSK props are fixed.

Lift shutters in pairs by crane using lifting plates provided and locate on the internal platforms. Temporary tube plan bracing required during lifting.

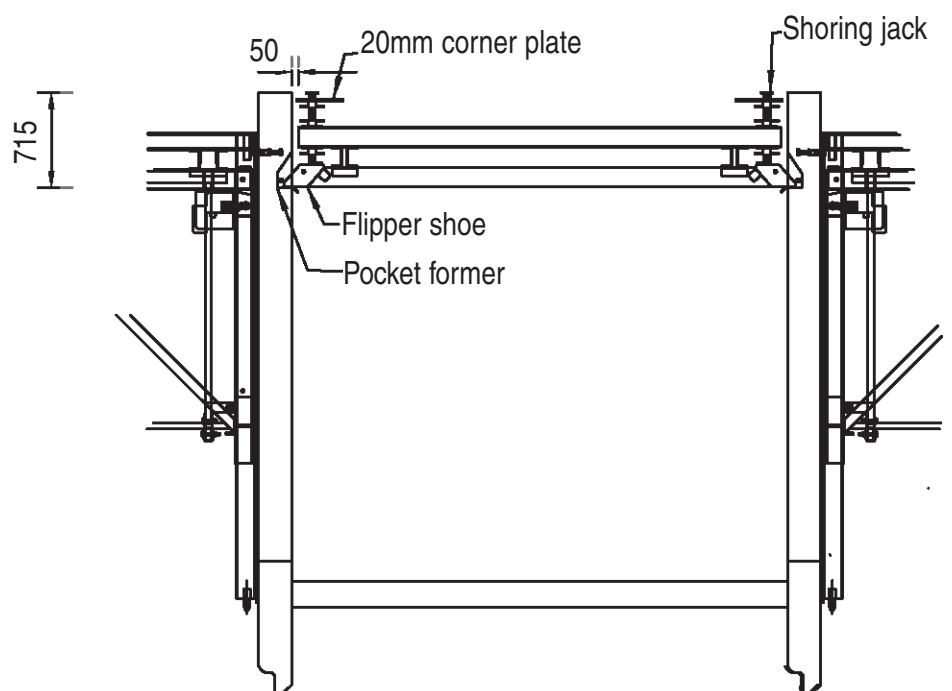
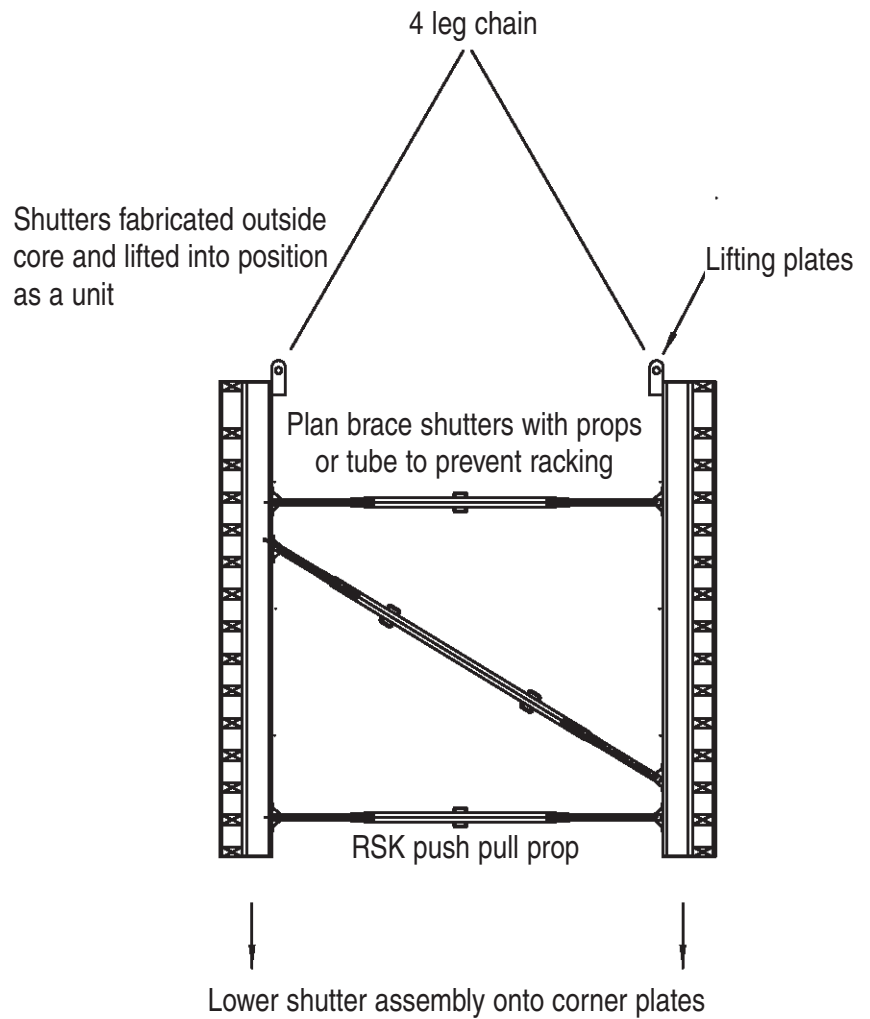


fig. 15

Lower steel corner panels into position by crane on lifting eyes provided.

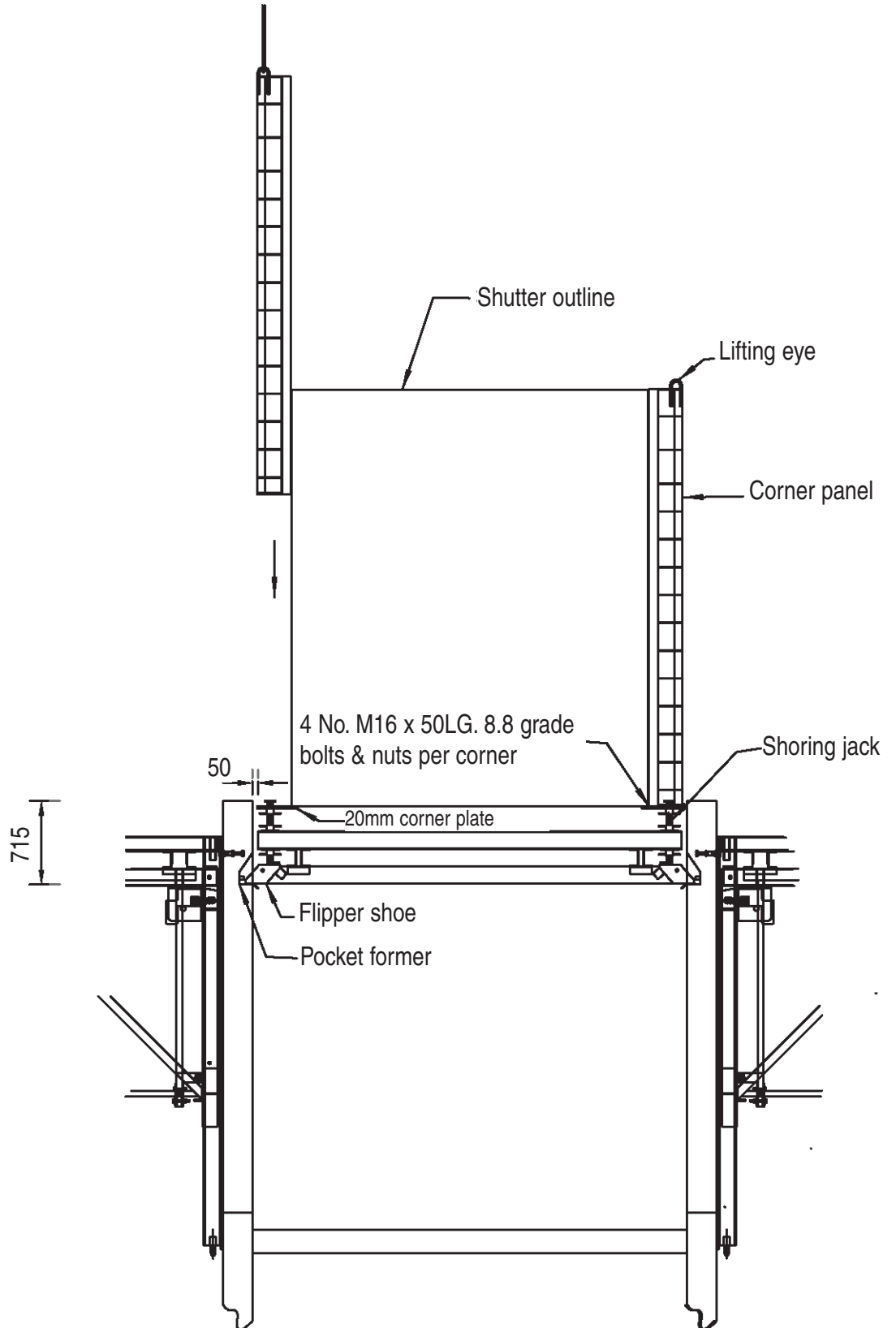
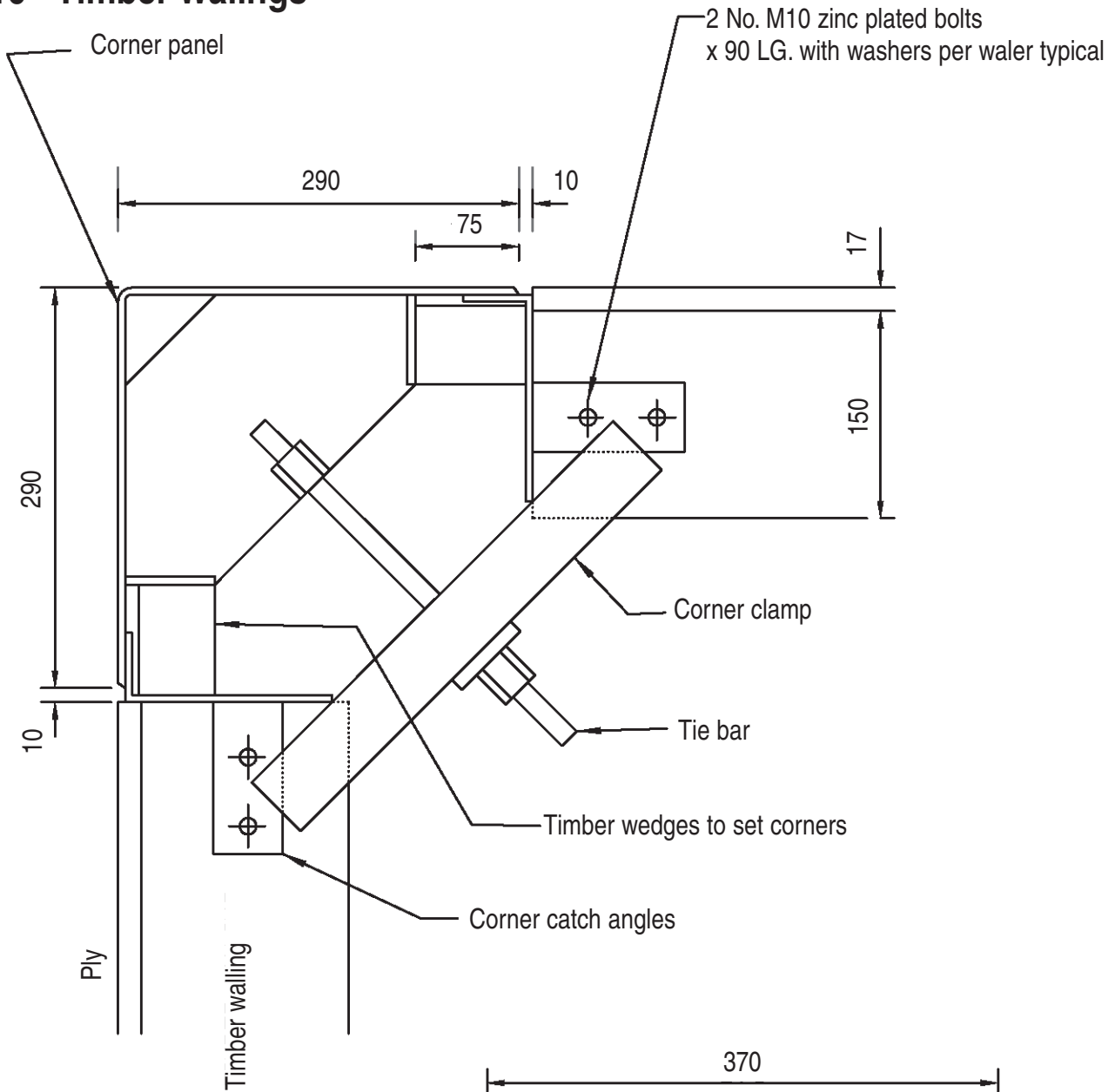


fig. 16 - Timber Walings

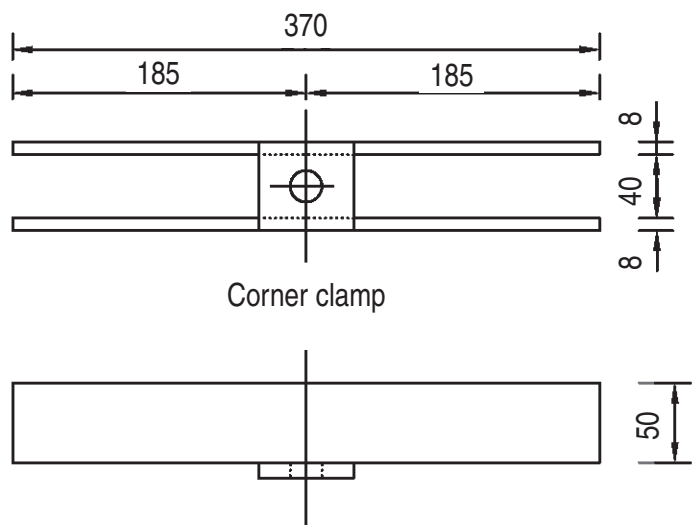


Fit corner clamps to each corner panel top and bottom.

Connect corner panel to corner plate with 4 No. M16 H.T. bolts.

The internal system is now complete and can be adjusted vertically using the shoring jacks and the push pull props across the core. Fix remaining corner clamps.

The reinforcing may now be installed. (see steel fixing method statement by others)



NOTE:
This detail will vary depending on wall formwork system used.

Lifting External Platforms to next level in concrete structure

fig. 17

External Platforms

The external shutters are stripped and rolled back out 750mm clear of wall. The next section of track will be lifted in by crane or re-cycled off the wall directly below and craned into position and fixed to the wall (see figs. 3 & 4) See also “recovery of track” statement and fig 14.

See fig's 1 to 4 for bolting of track

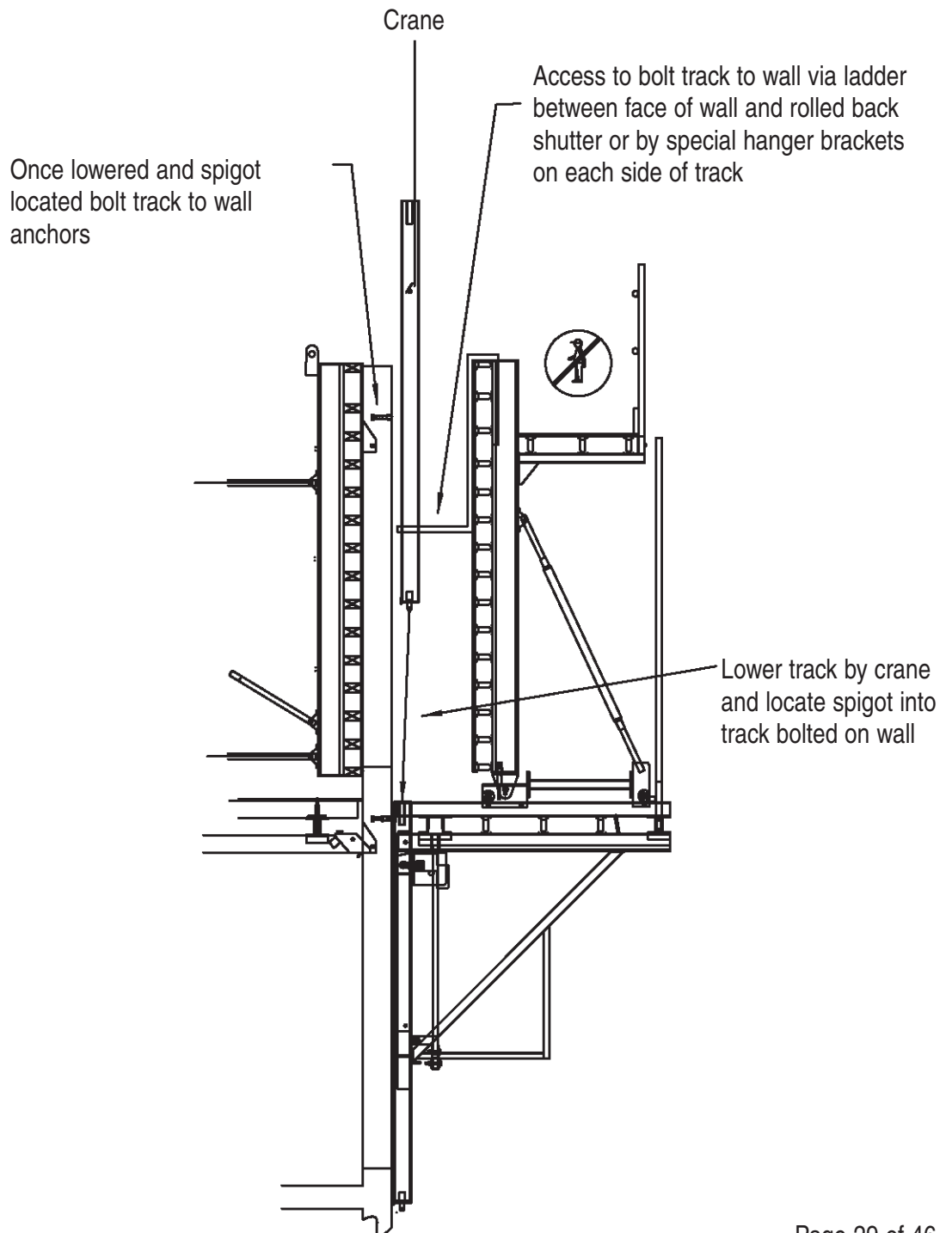


fig. 18

After checking the alignment of the new section of track, attach 4 chain slings from the crane onto the front flush deck lifting eyes and rear lifting eyes provided. Roll the shutter forward and lock off. Exit all persons from the platform; lift the platform to the next support location on the track and the automatic flipper will engage the track. (see also fig 19)

Check the flipper location visually from below and release the load slowly. The banksman is to be stood on the adjacent platform coordinating the crane via radio.

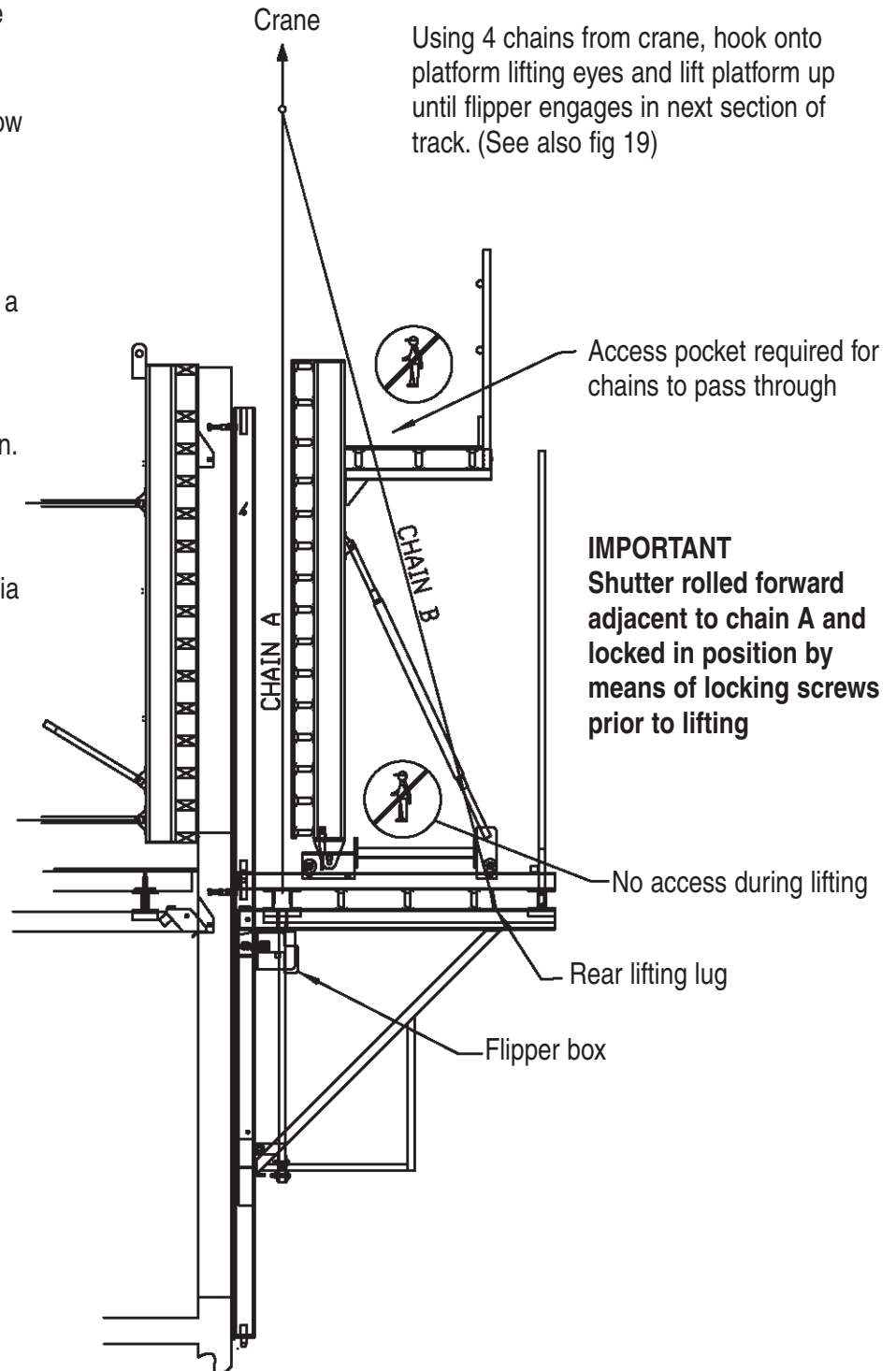
This method is repeated for all platforms in a pre determined sequence. See Ischebeck Titan Drawing for relevant contract.

The system is now ready for the cycle again.

Note: Tracks will be recycled by accessing from the suspended deck. Access and recovery of the lower track section will be via a trap door in the top deck against the wall (see section 'Recovery of Track').

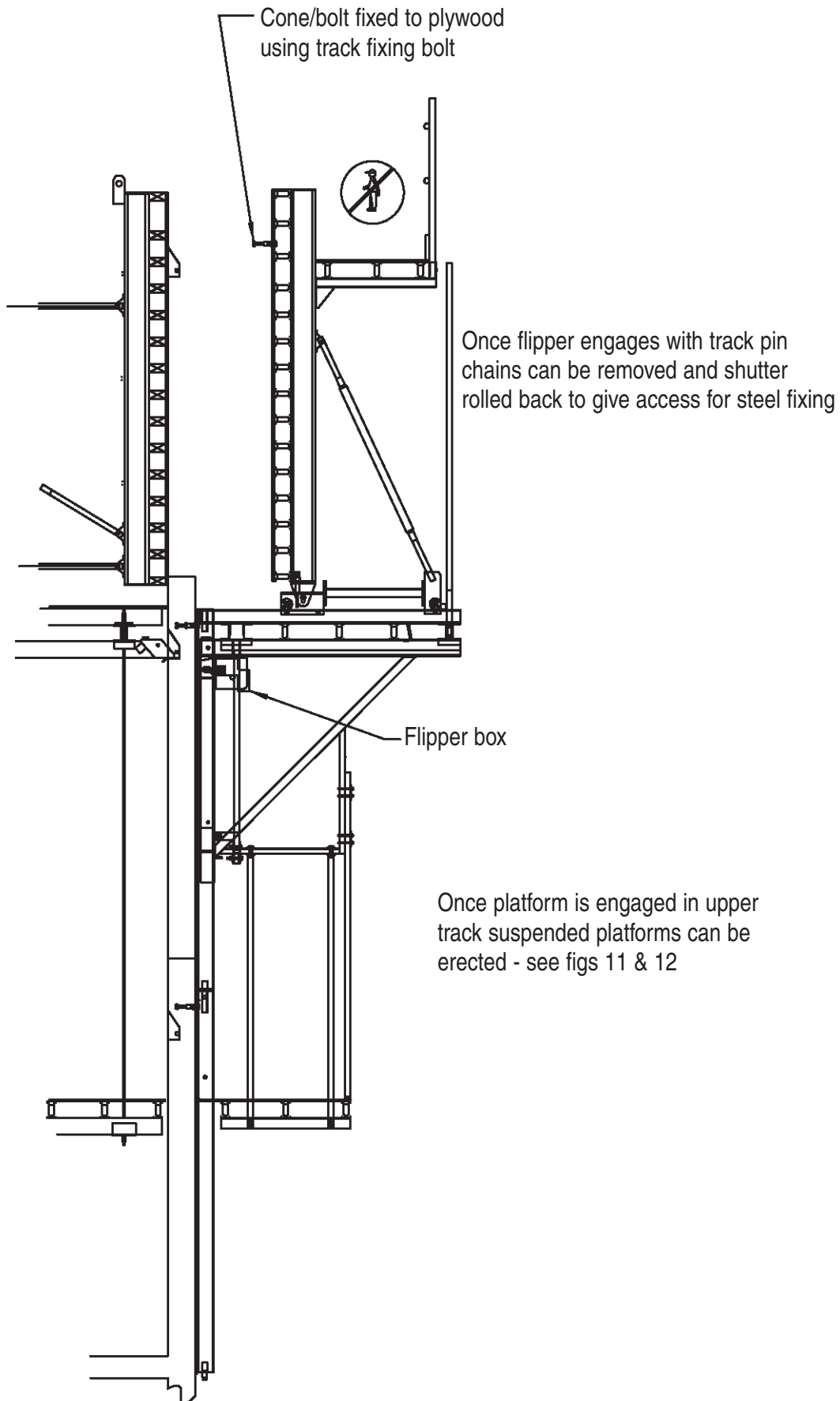
4 leg chain - chain A loaded
chain B safety

Using 4 chains from crane, hook onto platform lifting eyes and lift platform up until flipper engages in next section of track. (See also fig 19)



Minimum concrete strength for lifting - 15N/mm²

fig. 19



External platforms recovery of track

fig. 20

After wall pour release shutter and roll back form to lifting position and lock down track bolts to prevent shutter moving. (see fig. 18)

Check working deck is cleared of loose items, open trap doors to allow track to pass up.

Lower lifting chain through trap door in working deck down to operative on suspended platform level below.

Fit hook to pin between channels on the track.

Lower hook through trapdoor

Lock off bolts on rolling gear

Fit hook to pin on track

Suspended platform for track removal

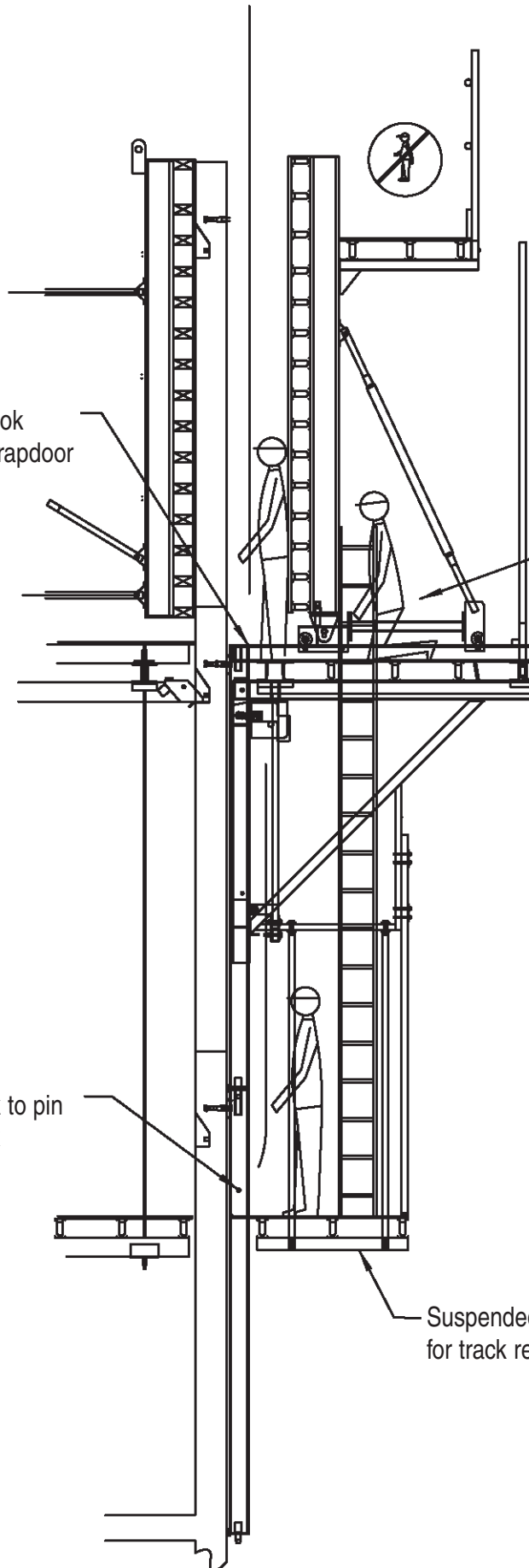


fig. 21

Take up slack on lifting chains.

Remove bolts in track from anchors

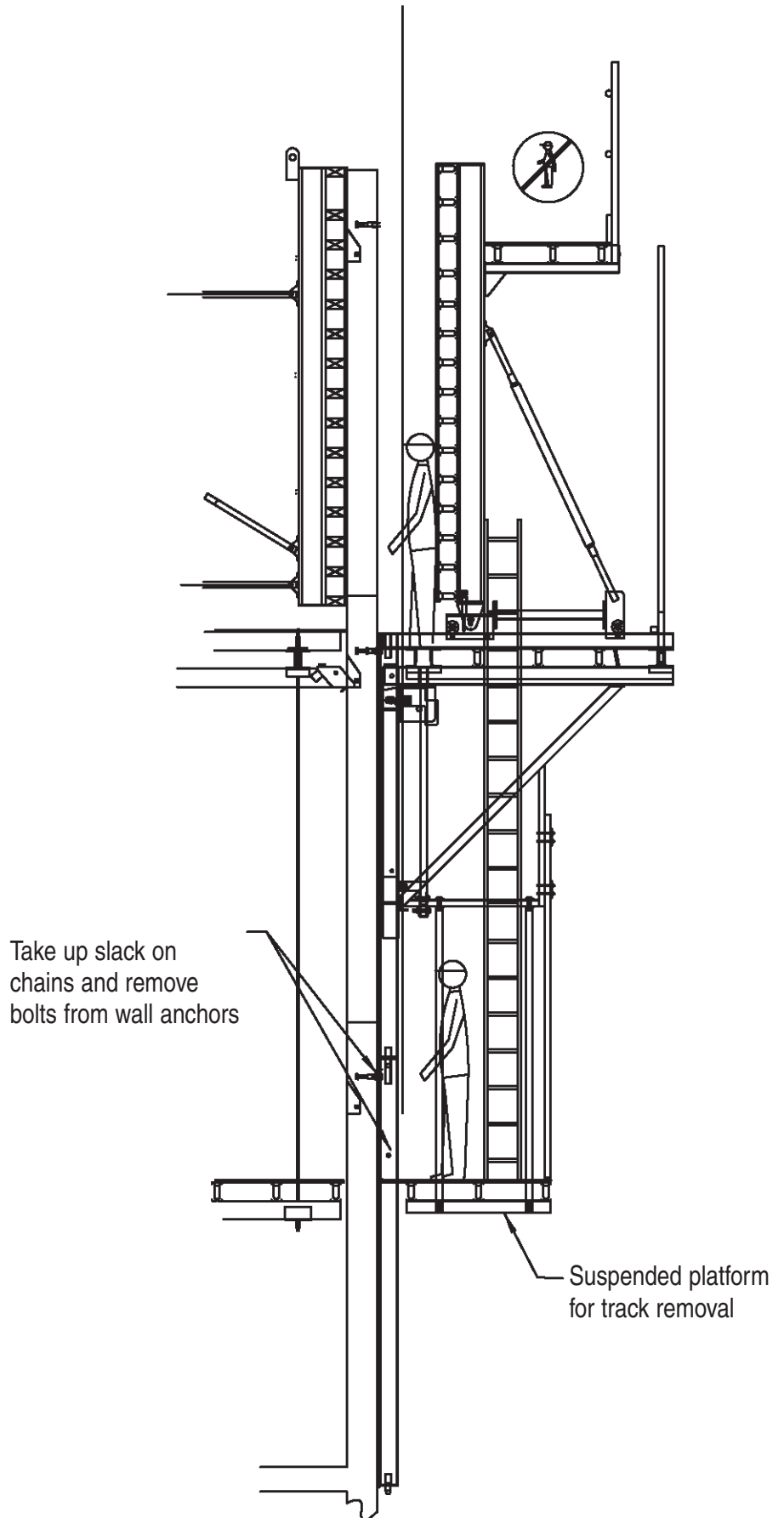
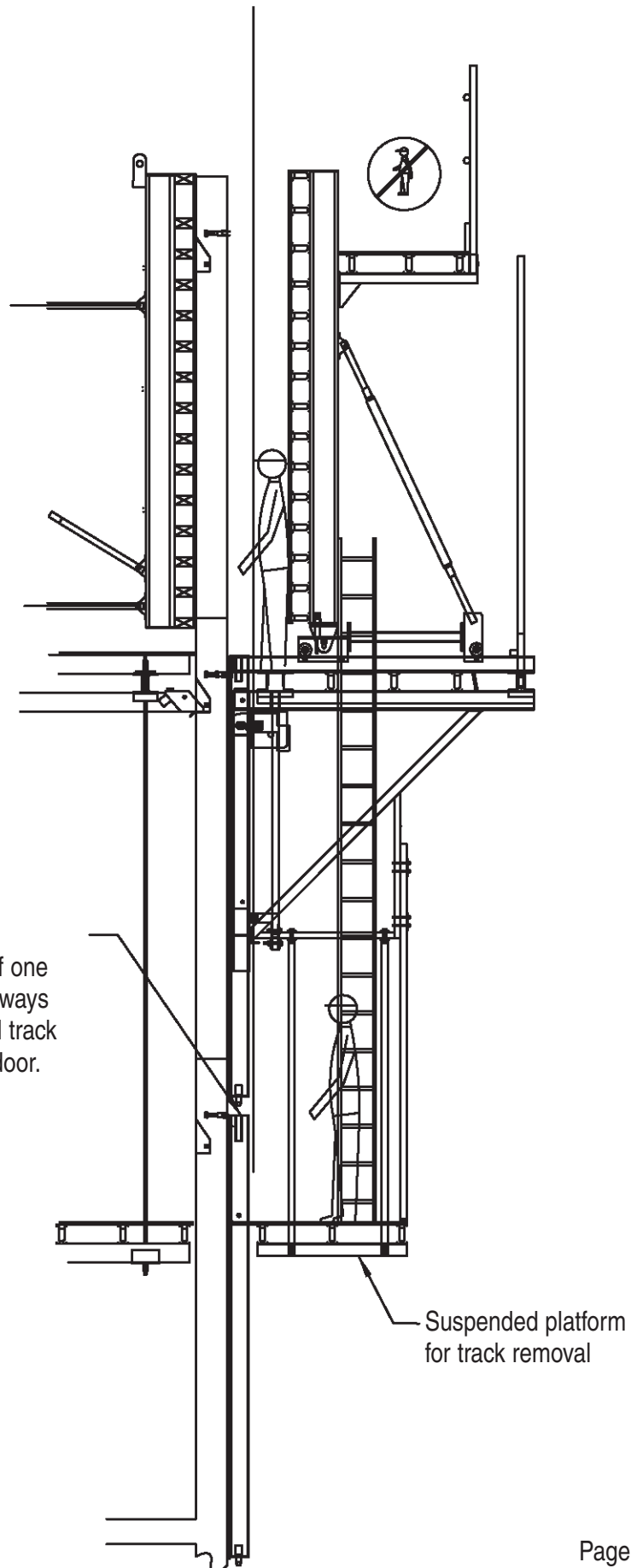


fig. 22

Lower chains nominally to allow track to disengage from spigot in track above.

Pull track to one side in line with the trap door above and hoist up slowly until track is through working deck, close trap door.



Lower track clear of one above. Moving sideways slowly hoist up until track goes through trap door.

Suspended platform for track removal

fig. 23

Locate bottom spigot onto the track fixed to the wall. Working off a ladder fit bolts and hand tighten, remove lifting chain.

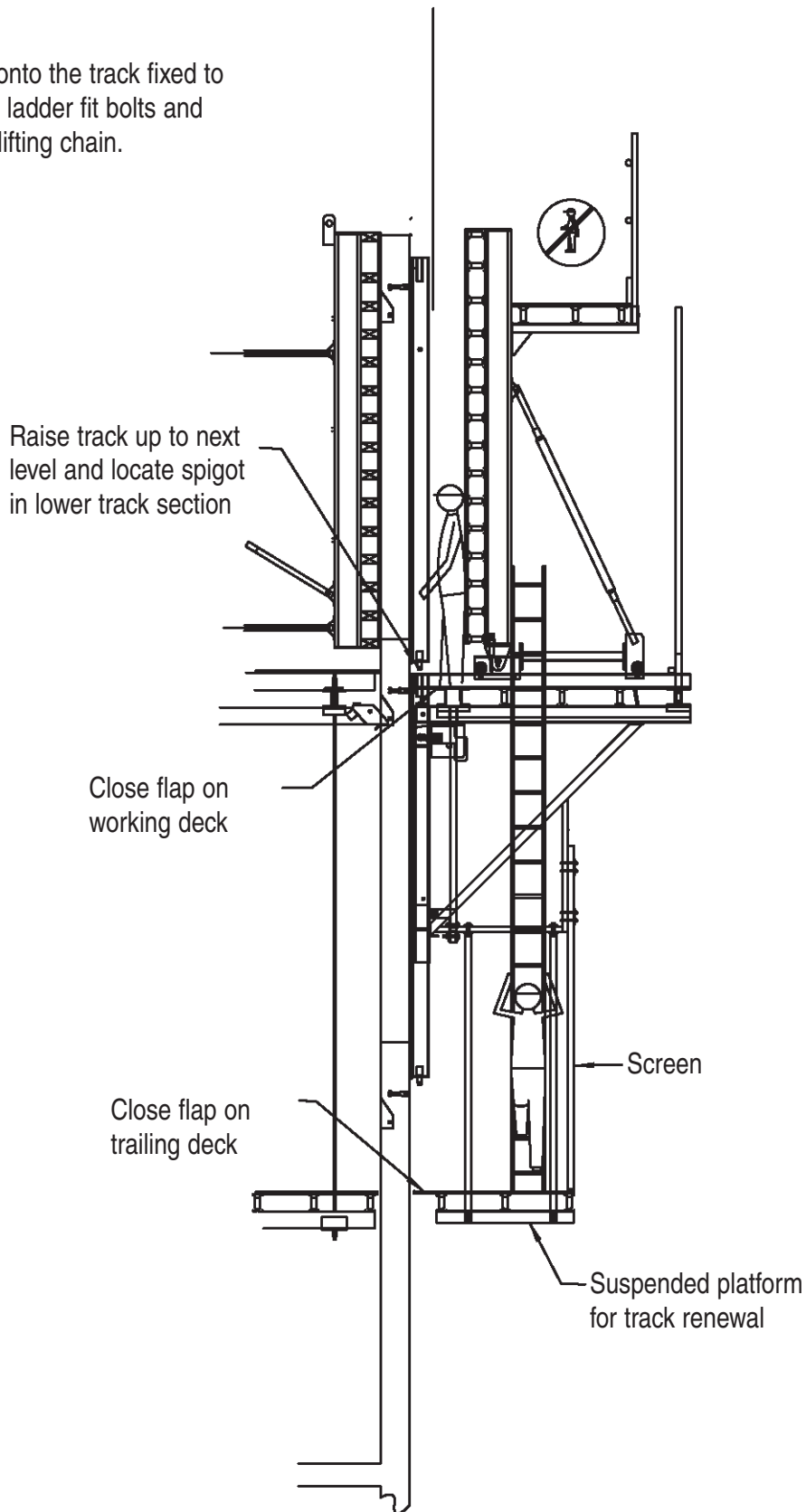


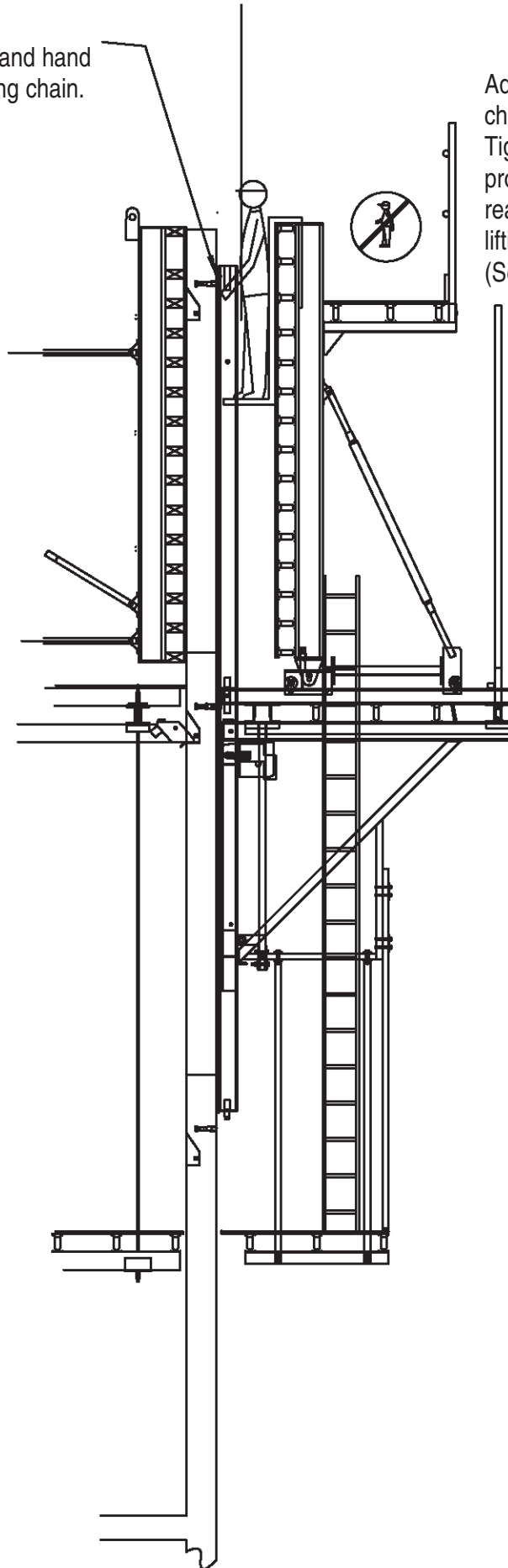
fig. 24

Fix track with bolts and hand tighten, remove lifting chain.

Check each pair of tracks for alignment, and then tighten bolts.

The system is now ready for the lifting procedure. (see figs. 18 & 19)

Adjust tracks to plumb and check dimensions required. Tighten bolts using tools provided. The track is now ready for the platform lifting procedure (See previous)



Lifting internal platforms to the next level in the concrete structure

fig. 25

The internal shutters are stripped 50mm and the corner panels released off the wall. Secure corner clamps.

Fit 4 leg chain sling to corner panel lifting eyes and lift the assembly vertically until the automatic flippers are engaged in the next set of pocket formers in the wall. (see also fig 26)

Release the crane and check clearances and amount of engagement of flipper into the pocket.

Set the internal shutter ready for the next pour reinforcing.

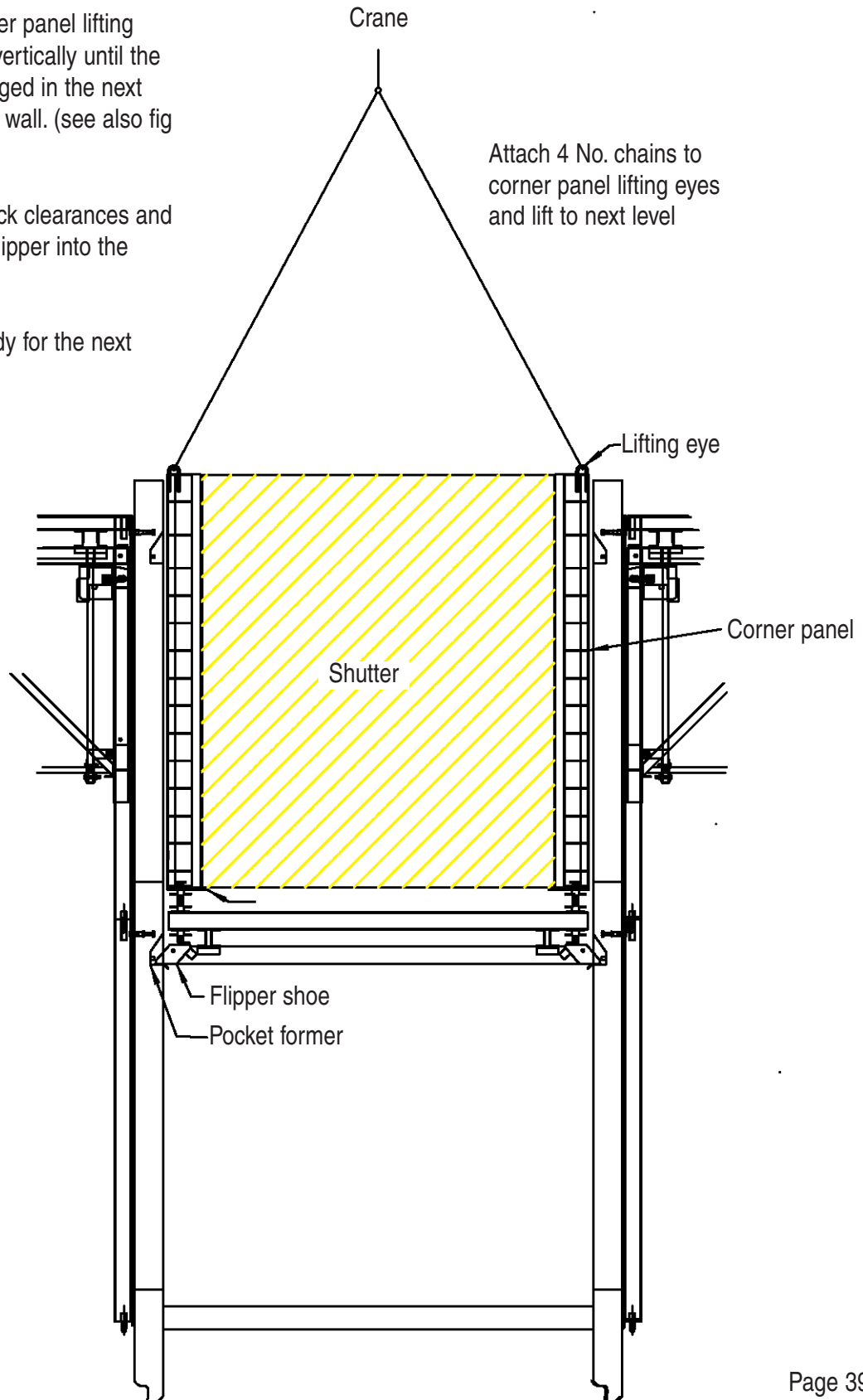
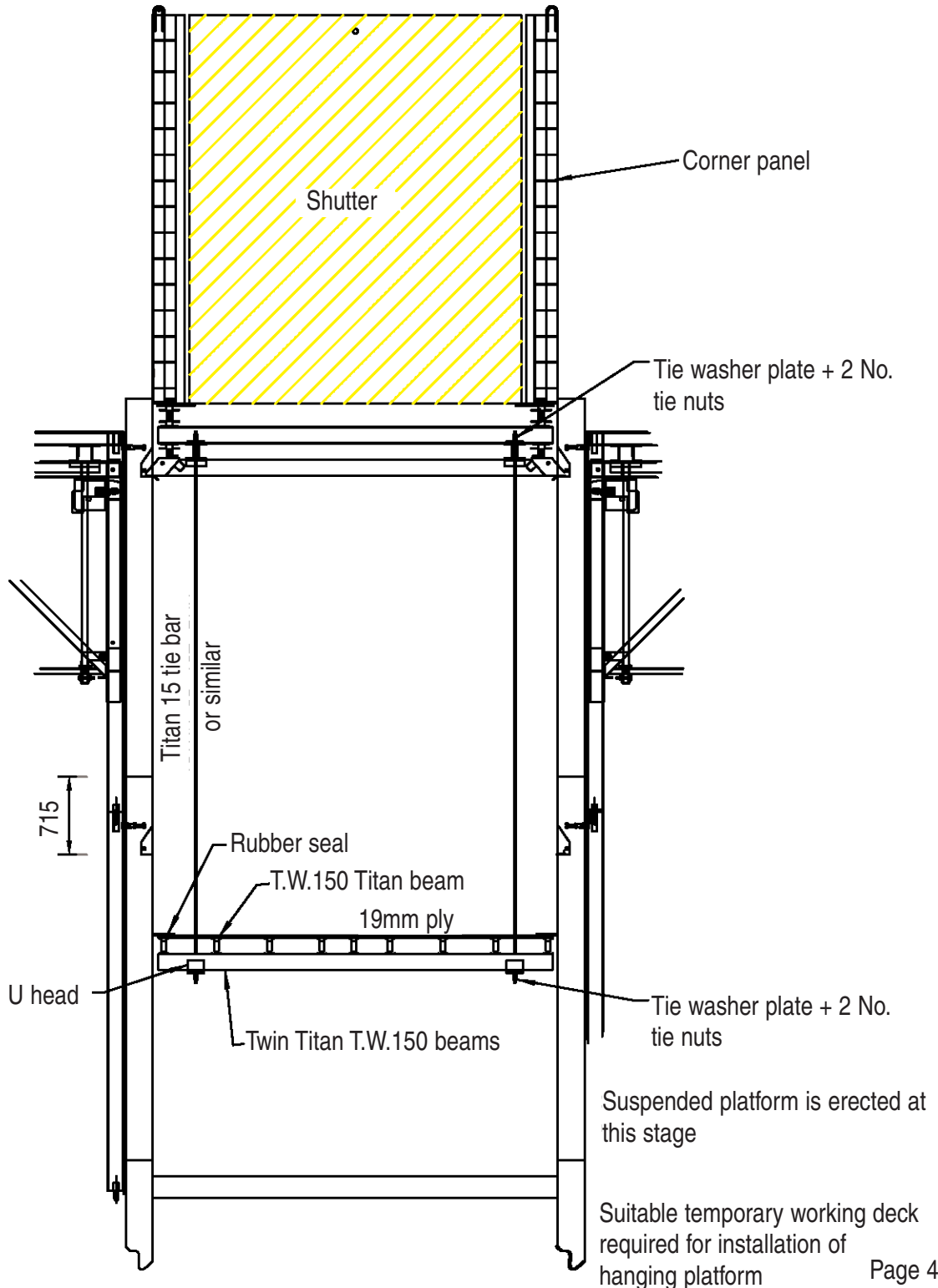


fig. 26

Suspended internal platform is now erected at this stage.

Ensure the flippers are engaged in pockets before removing chains. Once chains are removed realign internal shutters for fixing next pour reinforcing.



Climbtrac dismantling procedures for external and internal platforms

fig. 27

External platforms

With shutter in rolled back position and locked off fit chain to shutter and take up slack.

Remove push pull props.

Remove bolts at base of soldiers on tracks.

Lift and remove shutters to ground level.

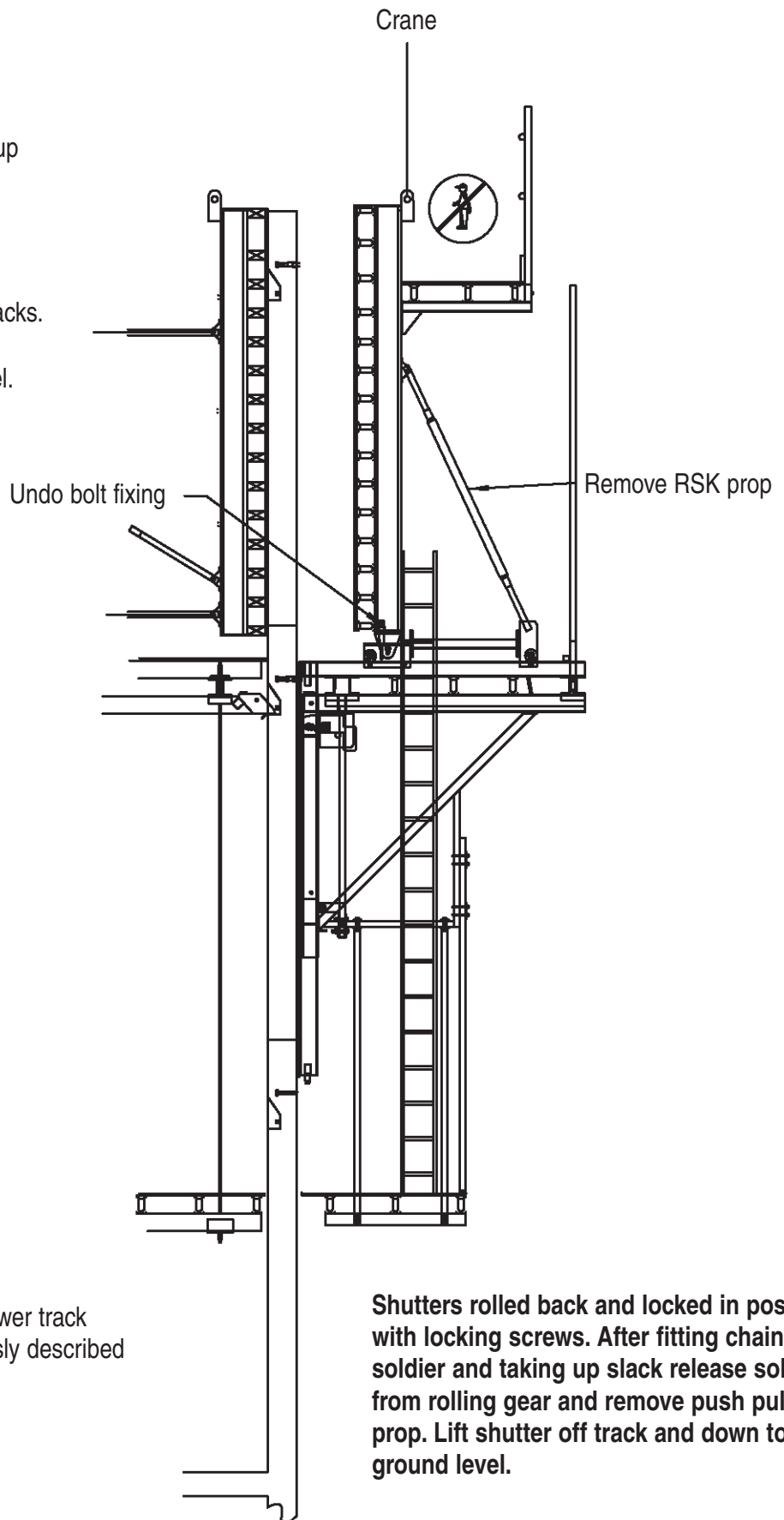


fig. 28

Release locking bolts on shutter rolling gear and remove from rail. Crane lift to ground in pairs.

Remove lower track following track removal procedure and then lift and lower track to ground level.

Fit chains to front and rear lifting lugs. Rear chains to be shortened to suit level lift.

At this point all personnel on platform must use safety harnesses.

All personnel to exit platform to be lifted.

Lift platform until clear of structure and lower to ground level.

Land suspended platform on ground and with platform still supported by the crane unbolt the hangers using a stable access platform.

Lift main platform clear of suspended platform and lower to ground for dismantling. Platform to be turned over as it is landed to lay face down on suitable ground for easy dismantle.

Last track section may be removed by crane once floor slab reaches underside of track at a suitable height to give ladder access for the removal of bolt fixings.

Note:

When first platform is removed there will be open edges on the remaining platforms. Either handrail off open edges or any personnel accessing the platforms must wear safety harness at all times.

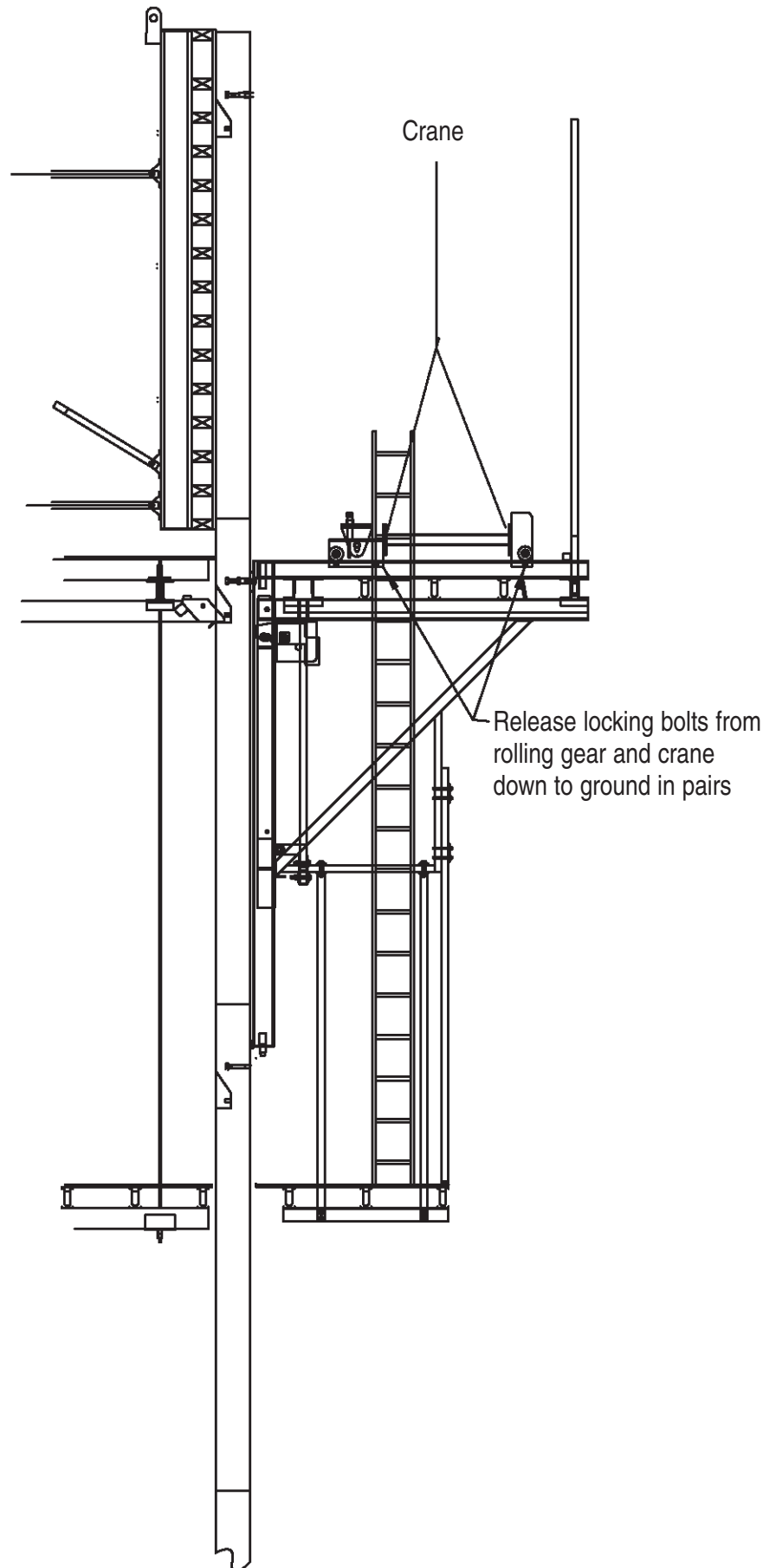


fig. 29

Internal platforms

Undo and remove corner panels by crane to ground using lifting eyes provided.

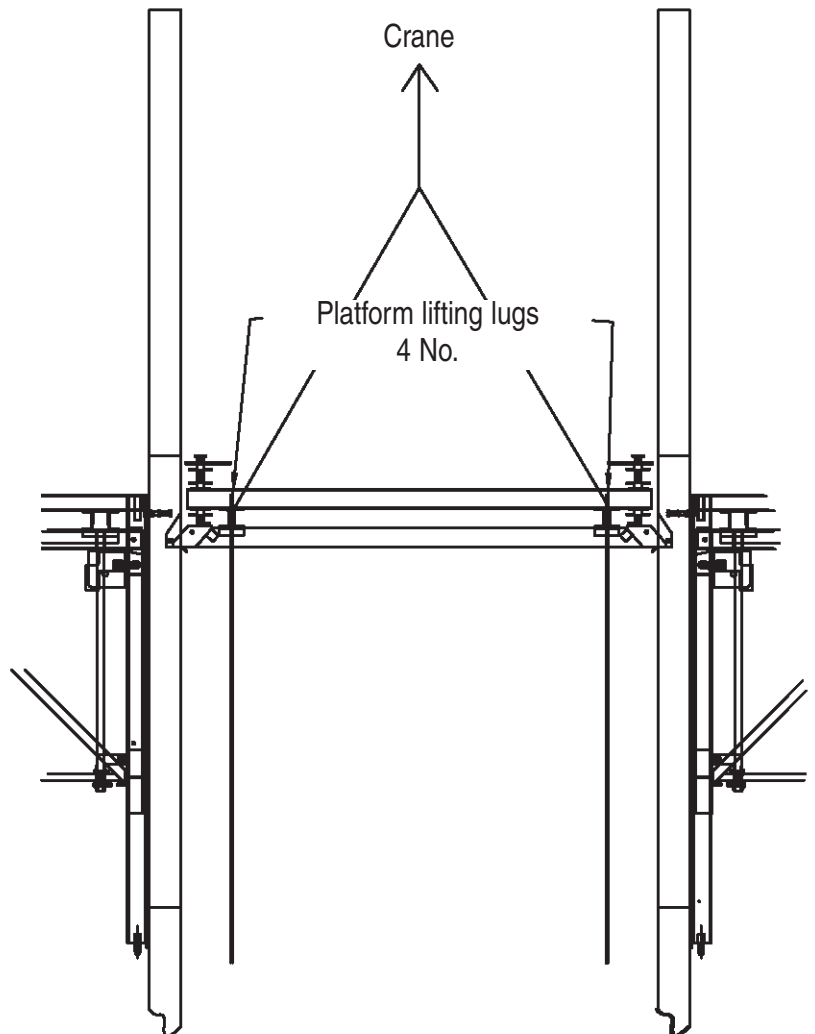
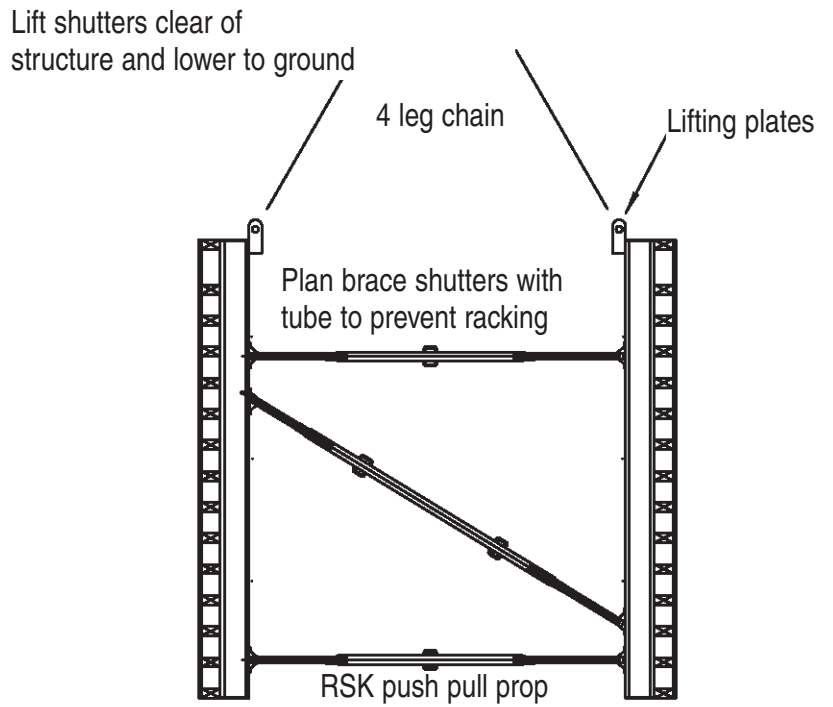
Remove internal shutters to ground by crane. Ensure forms are suitably braced.

Fit chains to platform lifting lugs.

Exit all personnel from platform.

Lift platform up clear of structure and lower to ground for dismantling.

Allow tie rods to pass up through main deck until top platform sits on ply of lower deck. Platform now ready for dismantling.



Checklist for Climbtrac system

Pre lift and after lift procedures

Prior to lifting

Tick box

| | |
|---|--|
| Ensure concrete up to strength - 15Nmm ² | |
| Remove all safety covers and nail back all infills | |
| Remove or secure any loose fixings | |
| Check for any obstructions against wall | |
| Check all tracks are positioned correctly and bolts tightened correctly | |
| Check access platforms are secure and accessible | |
| Check all shutter rolling gears are locked off (Six locking bolts per rolling gear) | |
| Ensure shutters are secured | |
| Clear area beneath Climbtrac of all site operatives - exclusion zone | |
| Ensure safety signs are in place to prevent entrance to core area | |

After lifting Climbtrac

| | |
|--|--|
| Ensure all flipper shoes/ A frames are located correctly | |
| Re-fix safety covers | |
| Ensure all plywood decks are fastened down | |
| Check all guardrails are secure, check nuts for tightness | |
| Ensure all gaps within screens are closed off | |
| Check trailing platforms - nuts dividing connectors, etc. visually checked | |
| Ensure access platforms are secure and signage removed | |

Signed _____ Date _____

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Founded in Germany over 120 years ago Ischebeck is renowned internationally for its aluminium formwork and false work systems, trench support systems and ground engineering products.

Ischebeck Titan Ltd

The company operates from headquarters centrally located in the heart of the UK.



Product Availability

Substantial stocks of equipment are available ex-stock from the company's strategically located 4-acre distribution site, with most main product lines available nationwide on a 48-hour delivery. Products are available for both hire and outright purchase.

Technical Support

We will participate in concept stage development. Providing input on applications, production rates, budget design, programming and costings. Active for on site support and training. We can provide guidance on industry special European and national standards.



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