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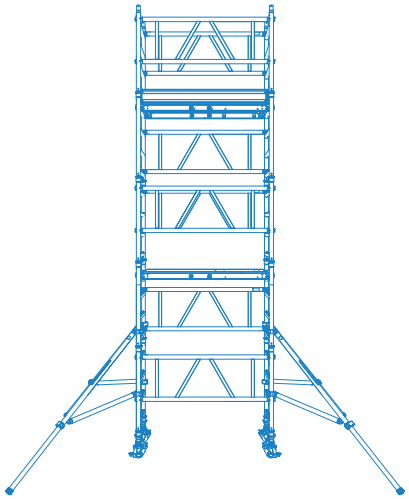
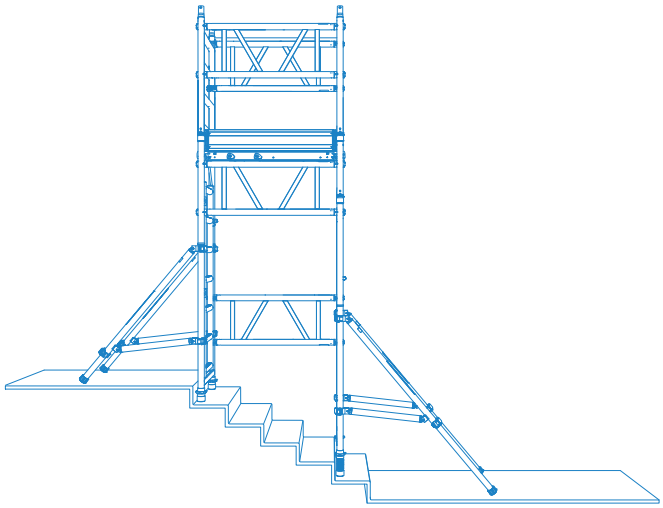
Operating & Safety Guide 332





MI TOWER

MOBILE ACCESS TOWER

versatile MiTower One-Person Quick Build Tower for construction site and maintenance applications.

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INTRODUCTION

The MI TOWER family is a versatile and high quality tower providing a work platform for one person (MI TOWER & MI TOWER STAIRS) or up to two persons (MI TOWER+). It is designed in accordance with the latest testing and quality standards.

Our priority is to help ensure the safe operation of our products, so please pay particular attention to the safety tips on pages 7 and 8.

We want you to enjoy the safe and responsible use of the MiTOWER family of products with the minimum of fuss and this guide is designed to get you up and running as quickly and as safely as possible.

It is essential you read this guide prior to assembling and using your tower.

Visit PASMA and HSE for further reference.

KNOW YOUR MI TOWER COMPONENTS

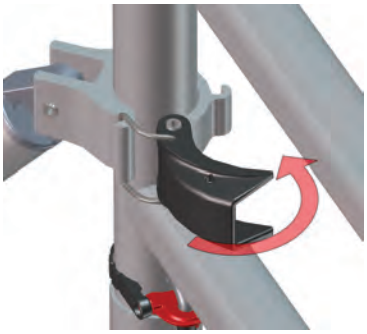
1 GUARDRAIL BRACE PANEL

Claws are fitted to the guardrail brace panels and each has an automatic locking jaw which is released by simply moving the jaw's trigger. The claw must only be attached to the frame with the opening facing outward. Attachment with the jaw's opening facing inward will not fully protect the user if lent upon and may cause serious injury or death. Always ensure that each claw is positively locked in position before using your tower.

2 FRAME CLIPS

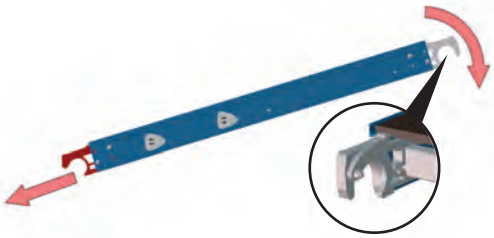
The frame clip's pin locates into a retaining hole in the frames to lock tower sections together when placed one on top of the other. The pin is locked in place by a red tab to ensure that it remains in place. From the disengaged position, pivot the pin / tab to bring the pin horizontal. Insert the pin fully through the retaining hole with its tail pointing down. Next flip the tab vertically to lock the pin in place. Removal is simply a reversal of the fitting sequence.

3 STABILISER COUPLER CLAMP



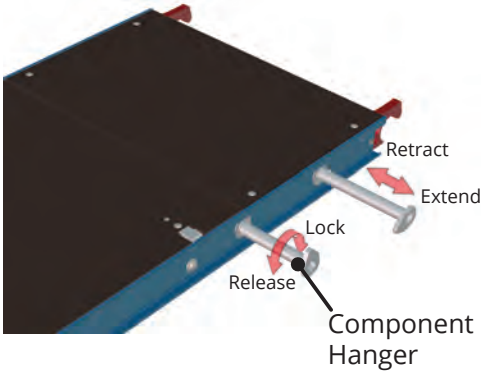
The coupler clamps are used to secure the stabilisers to the tower's vertical tubing. With the clamp jaw open, offer it to the tube. Bring the jaw around the tube and set the buckle on to the hook, then close the clamp arm to lock the stabiliser in position. A similar clamp is fitted to the stabiliser extension leg.

4 WIND-LOCK CATCH



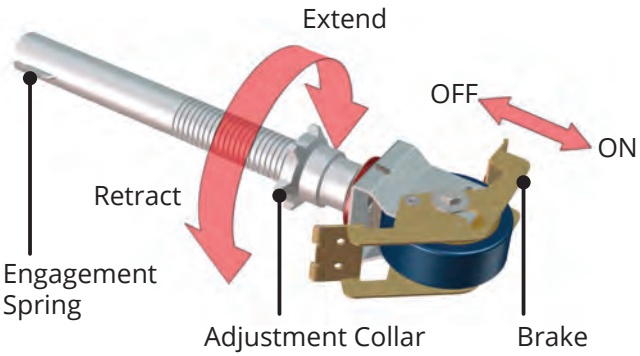
The wind lock catches comprise of a set of auto-engaging hooks at one end of the platform and a single gravity type catch at the other. The purpose of these devices is to prevent up-lift of the platforms in windy conditions. To engage the auto wind lock (AWL) simply tilt the platform at the angle shown before placing the hooks onto the rung of the end frame. Lower the opposite end of the platform onto the opposite end frame rung and the gravity type lock will automatically engage. Simply lift and hold the gravity lock before tilting the platform to dis-engage the opposite AWL hooks when removing the platform on tower disassembly.

5 PLATFORM WITH BUILT IN COMPONENT HANGERS



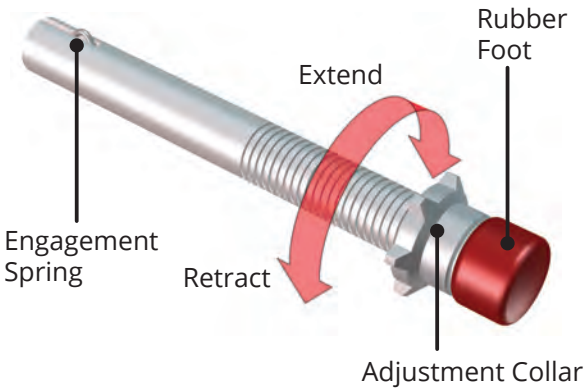
To enable one man to erect MI TOWER products, each hatch is fitted with four component hangers which are stowed (two either side) within the platform's frame. The hangers can be extended when needed and retracted when not. To extend and lock a hanger, take hold of the hanger stop end and pull from the frame. Once the stop rivet is clear of the slot, turn the hanger 45 degrees anticlockwise then gently slide back in until it stops. To retract the hanger, simply reverse the procedure.

KNOW YOUR MI TOWER COMPONENTS



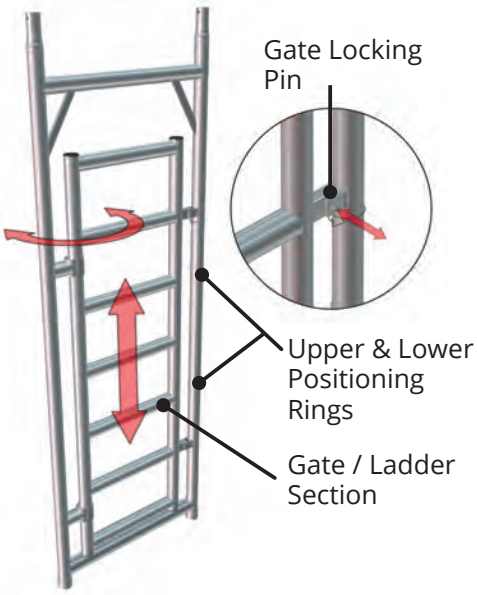
7 ADJUSTABLE LEG AND CASTOR

The adjustable leg and castor allows for accurate positioning of your MiTOWER in relation to your workplace. The leg can be extended or retracted to allow for levelling and the brake must be applied to prevent movement.



8 ADJUSTABLE LEG WITH RUBBER FOOT

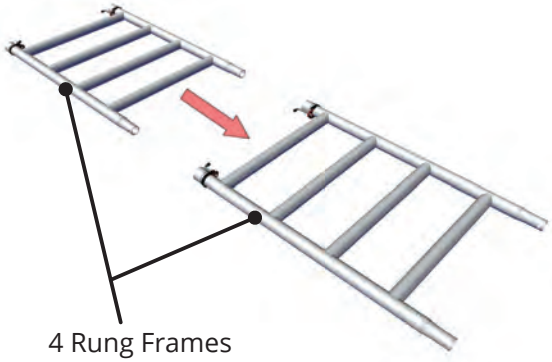
The adjustable leg with rubber foot allows for secure positioning of your Mi TOWER STAIRS in relation to your workplace. The leg can be extended or retracted to allow for levelling and the rubber foot prevents slipping.



9 WALK-THROUGH GATE FRAME

The walk-through gate frame includes a gate/ladder which is used to access the upper levels of the Mi TOWER STAIRS and once unlocked and opened, allows access into and through the base of the MiSTAIRS. To open the gate/ladder remove the clip and lift the gate/ladder upwards. It can now be swung inwards or outwards to allow access.

The vertical tubes also feature positioning rings that will be used when building the Mi TOWER STAIRS and allow the guardrail brace panel hooks to be correctly positioned.



10 CONJOINED FRAMES

A set of conjoined frames can be created by disengaging the frame clips on one four rung frame and tting it to a second four rung frame. Engage and apply the Easy-Clip frame clips to lock the two frames together.

SAFETY DOS AND DON'TS - ALWAYS

ALWAYS Read and understand this guide before you begin assembly.

ALWAYS Ensure that all safety requirements are met and that the tower is the correct access solution for the task you wish to perform.

ALWAYS Ensure that the tower is assembled and dismantled by a qualified, competent person.

ALWAYS Cordon off the work area creating a zone with a radius that is 1m greater than the total height of the tower.

ALWAYS Wear the correct Personal Protective Equipment for the task being performed. Gloves, steel toecap boots, a hard hat and suitable clothing must be worn by all persons.

ALWAYS Tie back long hair and remove items of loose jewelery.

ALWAYS Perform a full risk assessment prior to assembling or using the tower and abide by your findings.

ALWAYS Prevent access to unauthorised persons if you have no other option but to leave the tower unattended and if this is not possible then the tower must be dismantled.

ALWAYS Carry tools and materials safely retained in a tool belt that allows freedom of movement.

ALWAYS Ensure you properly assess the risk/method if tools or materials are hoisted to the platform via a rope.

ALWAYS Access platforms from within the tower structure and via the 4 rung frames positioned at the platform's trap door end. Keep your feet in the middle of the rungs and grip the upper rungs with your hands.

ALWAYS Erect the tower on smooth level ground that is capable of supporting its own weight, the user and any tools or materials without subsidence.

SAFETY DOS AND DON'TS - NEVER

NEVER Use the tower if you don't understand something in this guide; please contact the supplier for advice.

NEVER Assemble, use, move or dismantle the tower if you are tired or unwell or if you are under the influence of alcohol or drugs.

NEVER Use the tower in adverse weather conditions which may endanger the user.

NEVER Use in wind conditions of Beaufort Force 5 and above. Please be aware of the tunnel effect caused by buildings close to each other.

NEVER Assemble or use the tower near overhead hazards such as power lines that are within reach of the tower or the user.

NEVER Ascend or descend your tower if both hands are not free.

NEVER Add banners, notice boards, etc. to the tower.

NEVER Use the tower if contaminated by paint, chemicals, etc.

NEVER Overload the platforms (see component matrix on each tower type).

NEVER Suspend the tower from another structure.

NEVER Lean from the tower and never apply undue side force.

NEVER Stand on the guardrails, toe boards, boxes (or similar) to gain extra height. If the working height is insufficient either construct the tower to the required height or use an alternative method.

NEVER Use damaged components in your tower assembly.

BEFORE YOU START

PREPARATION

The floor area must be clear of any obstructions including materials and debris. Check that you have all the components necessary to construct the tower height you require. Check also each component for condition and correct function. If any part is missing or damaged/not working correctly it must be replaced before assembling

3T (THROUGH THE TRAPDOOR) SYSTEM

The 3T method of construction has been developed to reduce the risk of an erector falling from a tower during construction. The erector must sit on the platform with legs through the hatch and feet on the frame rungs when attaching guardrail brace panels above the platform. This ensures the erector is always protected by a set of guardrail brace panels.

TYING IN

You should consider tying in the tower to add stability, but this may only be carried out by a suitably trained person.

BALLAST

Where shown in the component list, ballast must be used to stabilise against overturning. Only use solid materials as ballast (i.e. no loose materials) and position to avoid overloading individual components. Ballast should be supported by the base of your tower and securely fastened to prevent removal.

ASSEMBLY GUIDE

These instructions must always be made available to the user. If replacement copies are required, please contact your supplier.

DAMAGED COMPONENTS

Regularly inspect all components for damage. Damaged components must be quarantined so that they cannot be used. Where safe to do so, the component can be repaired but only by a qualified repairer. If in doubt contact your supplier for advice.

DISMANTLING YOUR TOWER

The tower is easily dismantled by simply reversing the erection procedure. Make sure that the component hangers are evenly loaded to ensure your tower remains balanced. You must, however, be protected by guardrail brace panels when standing on any platform and ensure that you use the 3T method when removing guardrail brace panels.

GETTING STARTED

GETTING STARTED

The MI TOWER and MI TOWER+ requires only one person to assemble and dismantle it. The MI TOWER STAIRS requires two persons. Your tower is supplied with uniform 1m high rung frames which can be used at any stage of the assembly. During erection, the frames may be connected together to create 2m high frames which makes assembly both quicker and easier.

STABILISERS POSITIONING

Stabilisers are supplied and must be used for all tower heights.

For maximum effect arrange the stabilisers by positioning at an angle of 45 degrees to give a footprint as close to square as possible, as shown in fig. 1.

If the tower is to be positioned against a wall, the stabiliser footprint can be altered as shown in fig. 2 but only where the heights of the wall is a minimum of two thirds the height of the top working platform.

Ensure that all four stabilisers' feet are in contact with the ground and that the ground can support the weight of the tower and stabilisers.

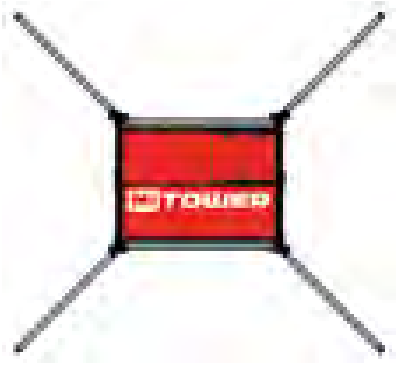


Fig. 1

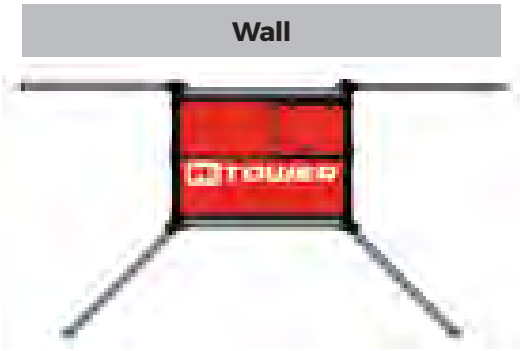


Fig. 2

MOVING YOUR TOWER

When your tower needs to be moved a small distance to enable you to continue your task, this can be achieved provided the stabilisers can remain in pattern and all tools, materials and personnel are removed from the tower.

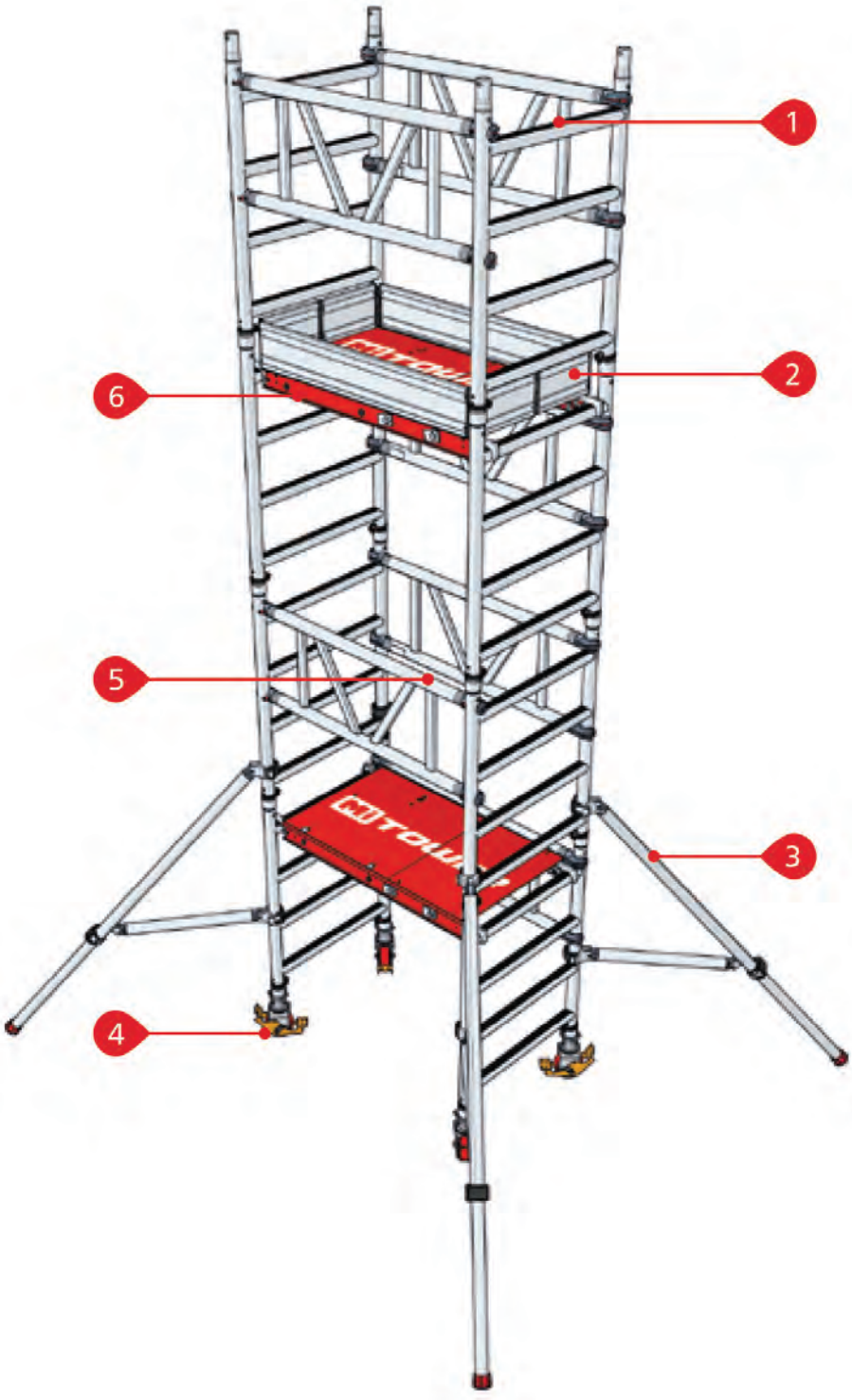
You will need to raise the stabilisers so that they are no more than 25mm above the floor and properly locked. However, if the stabilisers have to be repositioned and this reduces the footprint, your MiTOWER must be reduced in height to 2m.

You must only move the tower by manual effort at a slow pace and only after fully assessing the risk. Once moved, always check the tower before using.

If the tower is to be moved to a new location, a new level or over rough terrain, it must be fully dismantled and rebuilt at the new location.

MI TOWER

KNOW YOUR MiTOWER



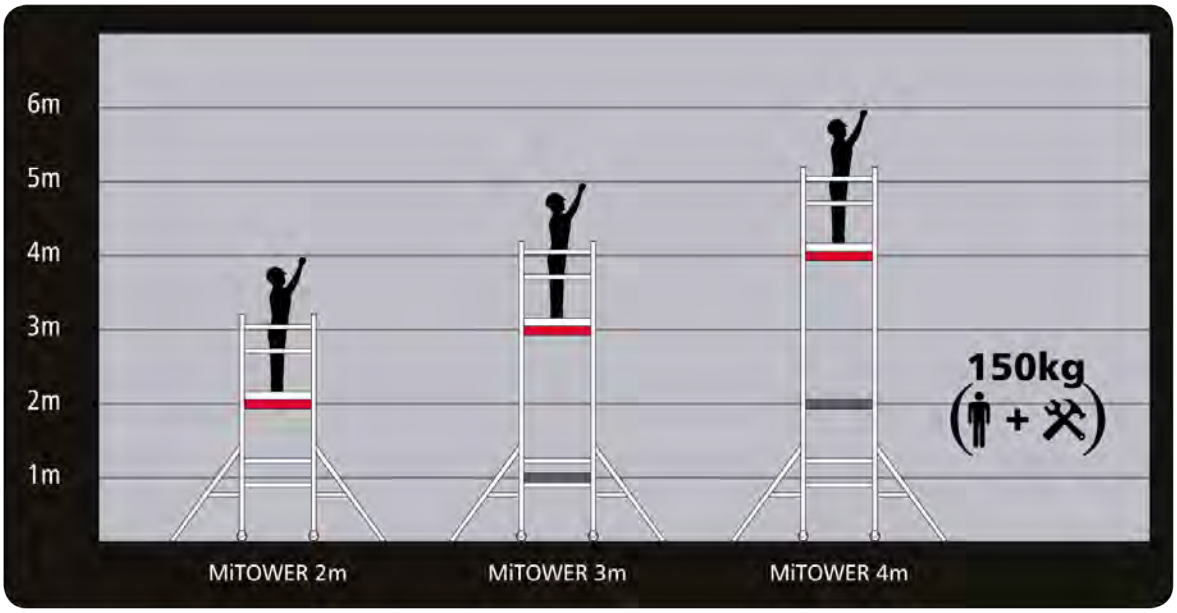
PARTS LISTING

1	4 RUNG FRAME	4	ADJUSTABLE LEG AND CASTOR
2	TOE BOARD	5	GUARDRAIL BRACE PANEL
3	TELESCOPIC STABILISER	6	HATCH PLATFORM

KNOW YOUR KIT LIST AND SPECIFICATIONS

COMPONENT MATRIX AND WEIGHTS

GROUND CONDITIONS	Weight (Unit) kg	2m qty	3m qty	4m qty
4 RUNG FRAME	3.58	6	8	10
TELESCOPIC OUTRIGGER	3.58	4	4	4
HATCH PLATFORM	8.56	1	2	2
GUARDRAIL BRACE PANEL	3.34	4	6	7
220MM ADJUSTABLE LEG	0.85	4	4	4
125MM LOCKING CASTOR	2.50	4	4	4
TOE BOARD SET	5.33	1	1	1
MITOWER WEIGHT (KG)		76.45	98.85	109.35
PLATFORM SAFE WORKING LOAD		150kg	150kg	150kg



KNOW YOUR STORAGE AND TRANSPORT PACK

TRANSPORT AND STORAGE

For ease of storage and of transportation, MiTOWER has been designed so that all components can be safely stored within the tower's base assembly. See illustration.

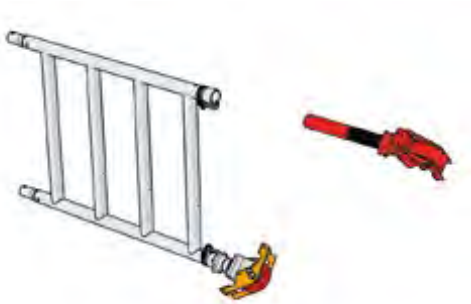
TROLLEY COMPONENTS

1. GUARDRAIL BRACE PANEL X2
2. TOE BOARD SET
3. HATCH PLATFORM
4. ADJUSTABLE LEG AND CASTOR X4
5. 4 RUNG FRAME X2

MI TOWER 4m - ASSEMBLY

STEP 1

Fully insert the adjustable legs with castors into two frames, turning the leg's height adjustment collar to bring each leg 25mm from the lowest position.



STEP 2

Attach a guardrail brace panel to the vertical tube of one frame with the upper claw positioned above the fourth rung and with all claws facing outward. Make sure the claws are correctly locked on to the frame tube. Now attach the second frame to the guardrail brace panel to create the base frame assembly. Lock all four castors and using a spirit level as a guide, adjust each leg to bring the base square and level.

STEP 3

Construct two sets of conjoined frames, these will give you two 2m sections and will speed up the erection process. Release the frame clips on one four rung frame and fit it on to a second four rung frame. Apply the frame clips and ensure they are correctly locked. Repeat this with the second set. Fit one set of conjoined frames to a base frame and apply the frame clips. Repeat this with the second set. Fit one set of conjoined frames to a base frame and apply the frame clips. Repeat this with the second set.

STEP 4

Next, attach one guardrail brace panel with its lower jaw positioned above the sixth frame rung. It must be fitted on the opposite side to the first guardrail brace panel to ensure stability. Ensure all claws are facing outward and correctly locked on to the frame tube.

MI TOWER 4m - ASSEMBLY

STEP 5

Stand inside the tower and fit a platform on to the eighth rung, making sure that the wind-lock catches engage.

STEP 6

Fit a stabiliser to each corner of the tower. Position the lower horizontal stabiliser coupler clamp just above the frame's second rung, then secure the top stabiliser coupler clamp just above the frame's fifth rung. Adjust the stabilisers so that you create as square a footprint as possible. Adjust each stabiliser's length so that they are in contact with the ground. Make sure all coupler clamps are correctly secured. Extend and lock the four component hangers located on either side of the platform.

STEP 7

Place two guardrail brace panels on to one set of hangers, and the toe boards in to the opposite set. Enter the tower framework and climb the frame rungs until you are half way through the platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet on the frame rungs. From this position, you should take each of the guardrail brace panels, one at a time, and attach so that the upper jaws are positioned above the twelfth rung.

STEP 8

With both panels in position, you may access the platform. Unfold the toe board set and position so that they sit on to the outer edge of the platform. Finally, retract all hangers and the tower is now complete and ready to use.

MI TOWER 4m - ASSEMBLY

STEP 9

Place three guardrail brace panels on to one set of hangers and a pair of eight rung conjoined frames to the other side. Enter the tower framework and climb the frame rungs until you are half way through the platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet on the frame rungs. From this position, you should take a guardrail brace panel, one at a time, and attach so that the upper jaws are positioned above the twelfth rung. With both panels in position, you may access the platform.

STEP 10

Fit one set of conjoined frames to each end of the tower and apply the frame clips. Next, attach the guardrail brace panel with its lower jaw positioned above the fourteenth frame rung. Ensure all claws are facing outward and correctly locked on to the frame tube. Descend the tower and from the ground place two guardrail brace panels onto the hangers on one side of the platform then a set of toe boards and a platform on the other side.

MI TOWER 4m - ASSEMBLY

STEP 11

Access the tower then carefully fit the second platform on to the sixteenth rung, making sure that the wind-lock catches engage. Extend and lock the four component hangers located on either side of the platform. Transfer the two guardrail brace panels and the set of toe boards to the component hangers on the second platform.

STEP 12

Position yourself so that you are half way through the second platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet on the frame rungs. From this position, you should take each of the guardrail brace panels, one at a time, and attach so that the upper jaws are positioned above the twentieth rung.

STEP 13

With both panels in position, you may access the platform. Unfold the toe board set and position so that they sit on to the outer edge of the platform. Finally, retract all hangers and the tower is not complete and ready to use.

INTERMEDIATE WORK PLATFORMS

Any platform fitted to the tower at any stage may be used as a work platfrom, provided toe boards and guardrail brace panels are fitted.

MI TOWER+

KNOW YOUR MI TOWER+

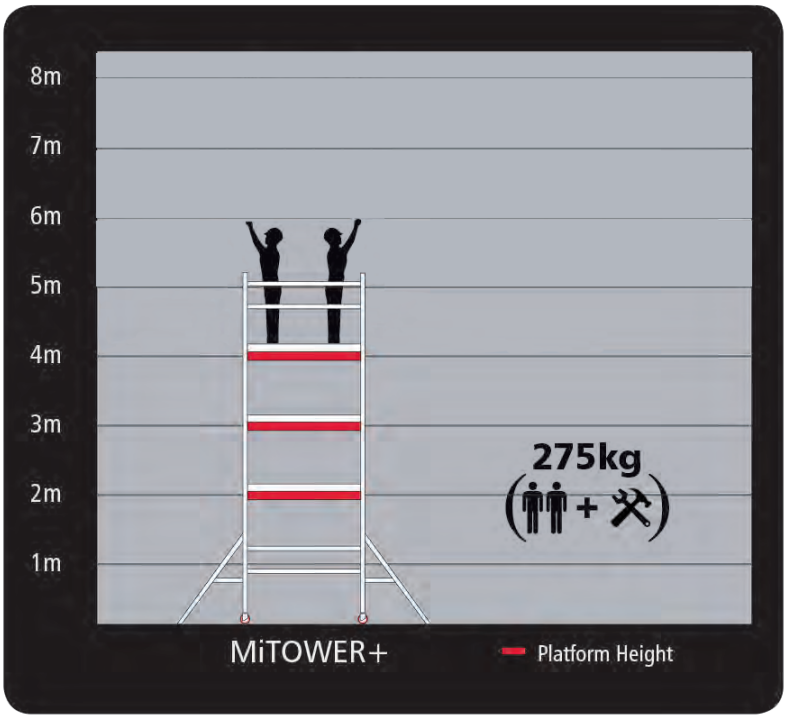
PARTS LISTING

1	4 RUNG FRAME	4	ADJUSTABLE LEG AND CASTOR
2	TOE BOARD	5	GUARDRAIL BRACE PANEL
3	TELESCOPIC STABILISER	6	HATCH PLATFORM

KNOW YOUR KIT LIST AND SPECIFICATIONS

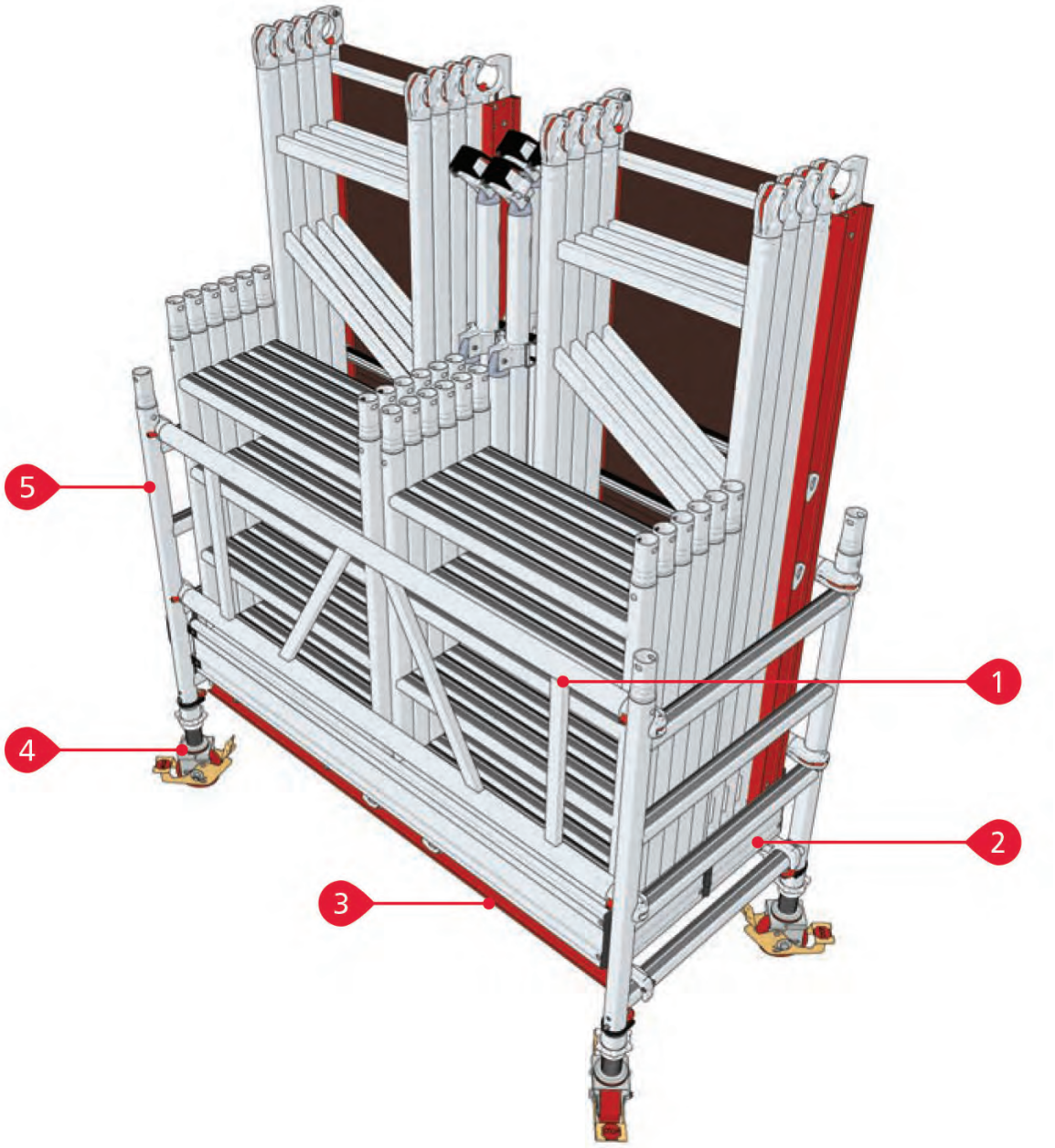
COMPONENT MATRIX AND WEIGHTS

GROUND CONDITIONS	Weight (Unit) kg	2m qty	3m qty	4m qty
4 RUNG FRAME	3.55	6	8	10
TELESCOPIC OUTRIGGER	4.35	4	4	4
HATCH PLATFORM	12.20	1	2	2
GUARDRAIL BRACE PANEL	4.15	4	6	7
220MM ADJUSTABLE LEG	0.85	4	4	4
125MM LOCKING CASTOR	2.45	4	4	4
TOE BOARD SET	6.50	1	1	1
MITOWER+ WEIGHT (KG)		87.20	114.80	126.05
PLATFORM SAFE WORKING LOAD (KG)		275	275	275



Mi-Tower + can be built to a platform height of 6M using the components from two Mi Tower + sets.

KNOW YOUR STORAGE AND TRANSPORT PACK



TRANSPORT AND STORAGE

For ease of storage and of transportation, MiTOWER+ has been designed so that all components can be safely stored within the tower's base assembly. See illustration. Product shown is MiTOWER+ 6m

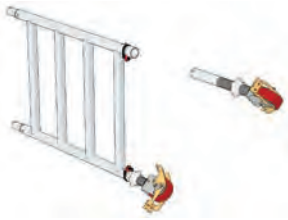
TROLLEY COMPONENTS

1. GUARDRAIL BRACE PANEL X2
2. TOE BOARD SET
3. HATCH PLATFORM
4. ADJUSTABLE LEG AND CASTOR X4
5. 4 RUNG FRAME X2

MI TOWER+ 4m - ASSEMBLY

STEP 1 FROM TROLLEY

For ease of storage and transportation your MiTOWER+ is designed so that all the components can be safely stored within the tower's base. Start by removing the free-standing components from within the trolley and stack safely nearby for use. Remove one of the guardrail brace panels and the hatch platform and store these with the other components. Level the base as described in Step 2 and move to Step 3.



STEP 1 FROM COMPONENTS

Fully insert the adjustable legs with castors into two frames, turning the leg's height adjustment collar to bring each leg 25mm from the lowest position.

STEP 2

Attach a guardrail brace panel to the vertical tube of one frame with the upper claw positioned above the fourth rung and with all claws facing outward. Make sure the claws are correctly locked on to the frame tube. Now attach the second frame to the guardrail brace panel to create the base frame assembly. Lock all four castors and using a spirit level as a guide, adjust each leg to bring the base square and level.

STEP 3

Construct two sets of conjoined frames, these will give you two 2m sections and will speed up the erection process. Release the frame clips on one four rung frame and fit it on to a second four rung frame. Apply the frame clips and ensure they are correctly locked. Repeat this with the second set. Fit one set of conjoined frames to a base frame and apply the frame clips. Repeat this with the second set.

STEP 4

Next, attach one guardrail brace panel with its lower jaw positioned above the sixth frame rung. It must be fitted on the opposite side to the first guardrail brace panel to ensure stability. Ensure all claws are facing outward and correctly locked on to the frame tube.

MI TOWER+ 4m - ASSEMBLY

STEP 5

Stand inside the tower and fit a platform on to the eighth rung, making sure that the wind-lock catches engage.

STEP 6

Fit a stabiliser to each corner of the tower. Position the lower horizontal stabiliser coupling clamp just above the frame's second rung, then secure the top stabiliser coupling clamp just above the frame's fifth rung. Adjust the stabilisers so that you create as square a footprint as possible. Adjust each stabiliser's length so that they are in contact with the ground. Make sure all coupling clamps are correctly secured.

STEP 7

Extend and lock the four component hangers located on either side of the platform. Place two guardrail brace panels on to one set of hangers, and the toe board set on to the opposite side.

STEP 8

Enter the tower framework and climb the frame rungs until you are half way through the platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet on the frame rungs. From this position, you should take each of the guardrail brace panels, one at a time, and attach so that the upper jaws are positioned above the uppermost rung.

STEP 9

With both guardrail brace panels in position, you may access the platform. Unfold the toe board set and position so that it sits on the outer edge of the platform. Finally, retract all hangers and the tower is now complete and ready to use.

MI TOWER+ 4m - ASSEMBLY

STEP 10

Extend and lock the four component hangers located on either side of the platform. From the ground place three guardrail brace panels onto the hangers on one side of the platform and two sets of conjoined four rung frames on the other side.

STEP 11

Access the tower until you are half way through the platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet on the frame rungs. From this position, you should take each of the guardrail brace panels, one at a time, and attach so that the upper jaws are positioned above the uppermost rung.

STEP 12

Access the first platform. Fit one set of conjoined frames to each end of the tower and apply the frame clips. Next, attach the guardrail brace panel with its lower jaw positioned above the thirteenth frame rung. Ensure all claws are facing outward and correctly locked on to the frame tube.

STEP 13

Descend the tower and from the ground place two guardrail brace panels onto the hangers on one side of the platform and a toe board set and a platform on the other side.

MiTOWER+ 4m - ASSEMBLY

STEP 14

Access the first platform and carefully fit the second platform on to the sixteenth rung, making sure that the wind-lock catches engage. Next extend and lock the four component hangers located on either side of the second platform. Move the two guardrail brace panels from the hangers on the first platform on to the the hangers of the second platform and then repeat the process with the toeboard set on the other side of the platform.

STEP 15

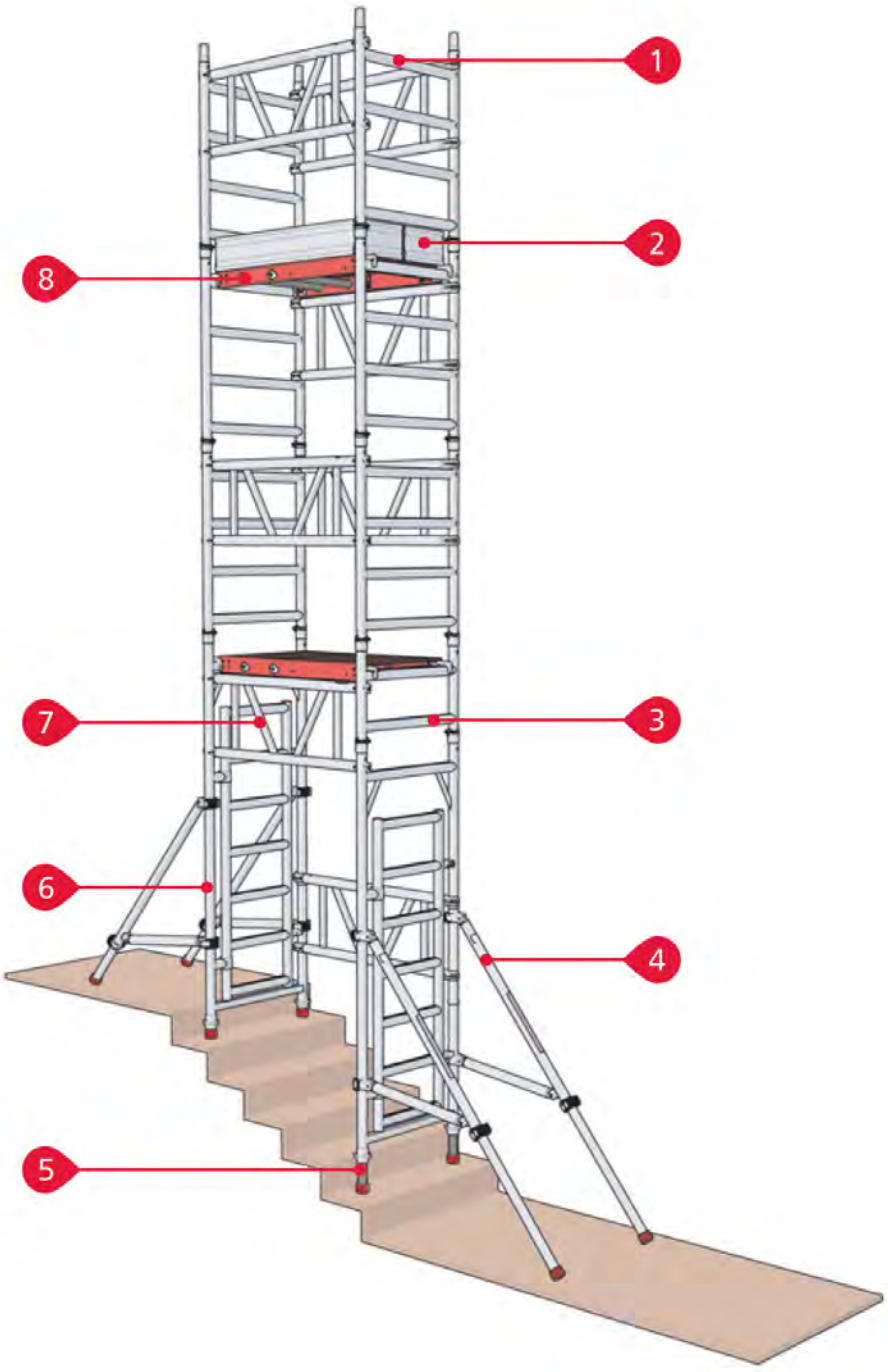
Access the tower until you are half way through the second platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet on the frame rungs. From this position, you should take each of the guardrail brace panels, one at a time, and attach so that the upper jaws are positioned above the uppermost rung.

STEP 16

With both guardrail brace panels in position, you may access the platform. Unfold the toe board set and position so that it sits on the outer edge of the platform. Finally, retract all hangers and the tower is now complete and ready to use.

MI TOWER STAIRS

KNOW YOUR Mi TOWER STAIRS



PARTS LISTING

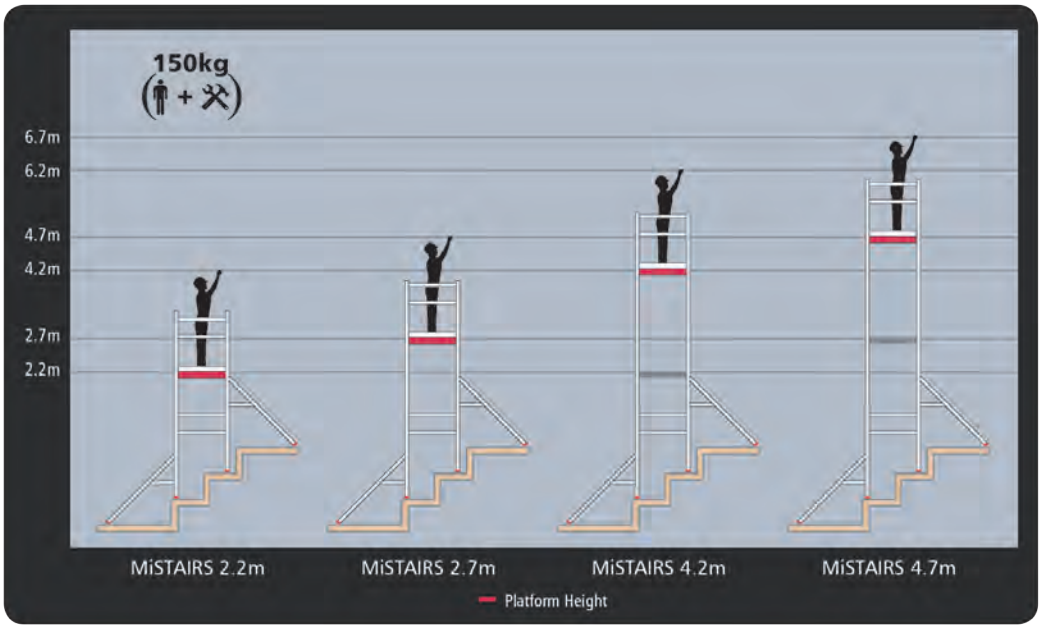
1	4 RUNG FRAME	5	ADJUSTABLE LEG WITH RUBBER FOOT
2	TOE BOARD SET	6	WALK-THROUGH GATE FRAME
3	2 RUNG FRAME	7	GUARDRAIL BRACE PANEL
4	EASY-LOCK STABILISER	8	HATCH PLATFORM

KNOW YOUR KIT LIST AND SPECIFICATIONS

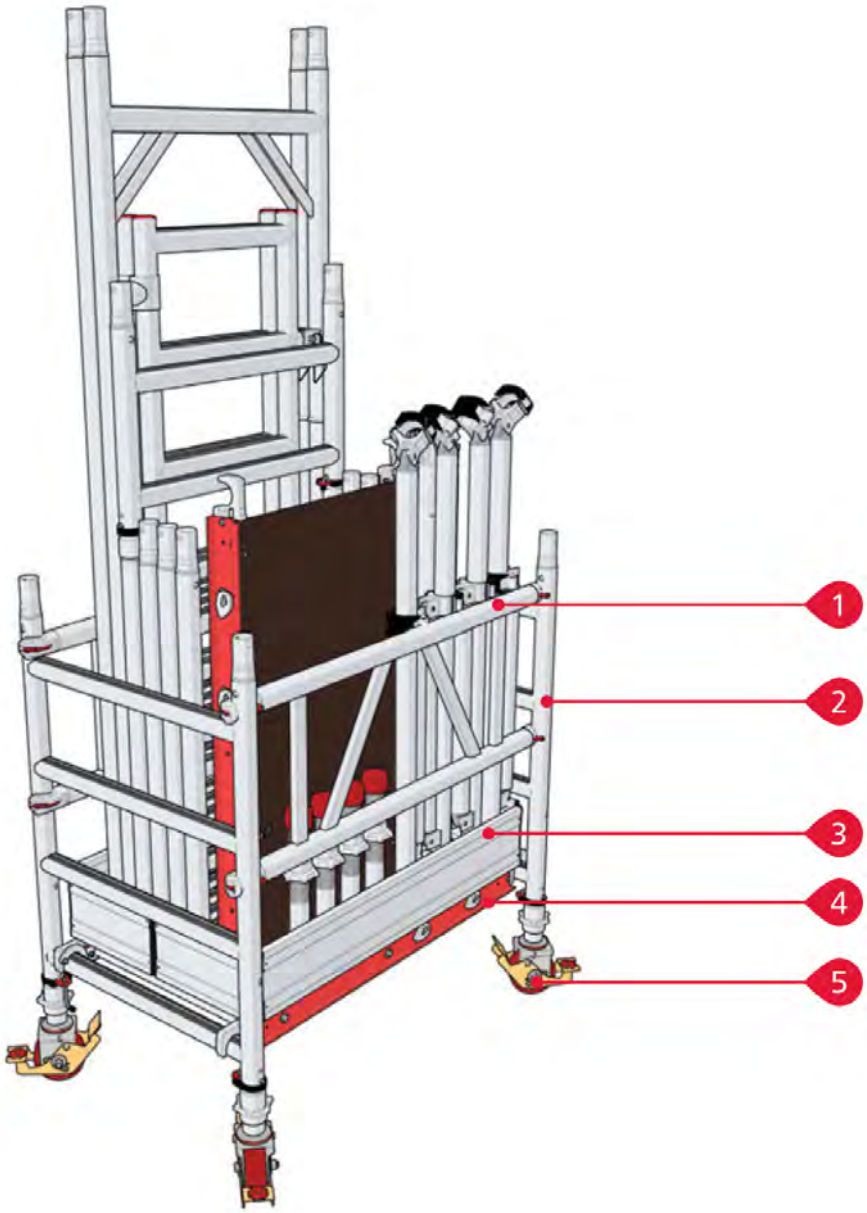
COMPONENT MATRIX AND WEIGHTS

GROUND CONDITIONS	Weight (Unit) kg	2.2m qty	2.7m qty	4.2m qty	4.7m qty
4 RUNG FRAME	3.55	3	2	7	6
EASY-LOCK STABILISER	3.65	4	4	4	4
HATCH PLATFORM	9.35	1	1	2	2
GUARDRAIL BRACE PANEL	3.25	4	4	7	7
220M ADJUSTABLE LEG WITH RUBBER FOOT	0.91	4	4	4	4
WALK-THROUGH GATE FRAME	9.29	1	2	1	2
2 RUNG FRAME	2.01	1	1	1	1
TOE BOARD SET	5.15	1	1	1	1
MISTAIRS WEIGHT (KG)		67.69	73.43	100.99	106.73
PLATFORM SAFE WORKING LOAD (KG)		150kg	150kg	150kg	150kg

See page 11 (Tying in) for Mi TOWER STAIRS heights outside the scope of this instruction guide or instances where the standard stabilisers cannot be deployed as instructed.



KNOW YOUR STORAGE AND TRANSPORT PACK



TRANSPORT AND STORAGE

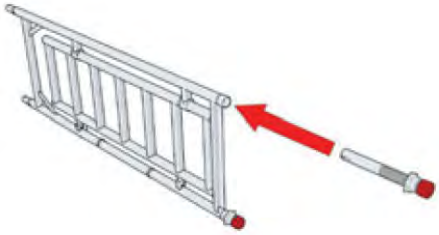
For ease of storage and of transportation, Mi TOWER STAIRS has been designed so that all components can be safely stored within the Mi TOWER STAIRS trolley assembly. See illustration.

Product shown is Mi TOWER STAIRS 2.7m

TROLLEY COMPONENTS

1. GUARDRAIL BRACE PANEL X2
2. 4 RUNG FRAME X2
3. TOE BOARD SET
4. HATCH PLATFORM
5. ADJUSTABLE LEG AND CASTOR X4

Mi TOWER STAIRS 2.2M & 4.2M - ASSEMBLY



STEP 1

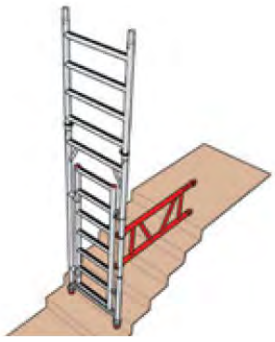
Take four adjustable legs with rubber feet and insert two into the walk-through gate frame. Then insert the remaining two adjustable legs with rubber feet into the two rung frame. Adjust all leg height adjustment collars to bring all four legs to the lowest position.

STEP 2

Construct the lowermost frame assembly. Release the Easy-Clip frame clips on one four rung frame. Take the lowermost walk-through gate frame and fit the four rung frame on top.
Apply the Easy-Clip frame clips and ensure they are correctly locked.

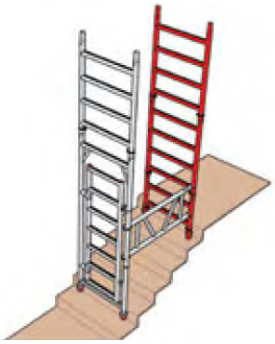
STEP 3

Construct the uppermost frame assembly. Release the Easy-Clip frame clips on the two rung and two four rung frames. Take one four rung frame and fit it on top of the two rung frame. Take the second four rung frame and fit it on top of the first four rung frame.
Apply all of the Easy-Clip frame clips and ensure they are correctly locked.



STEP 4

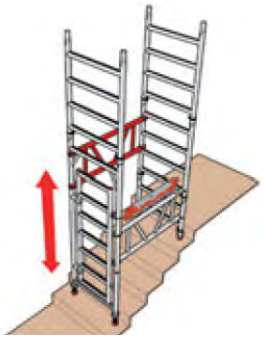
Place the walk-through frame assembly at the lowermost position of the staircase and attach the guardrail brace panel on the gate locking pin side of the frame ensuring its upper jaw is placed above the upper positioning ring.
Ensure the two hooks are facing outwards and correctly locked on to the frame tube.



STEP 5

With your assistant holding the lowermost frame assembly and guardrail brace panel, place the uppermost frame assembly at the uppermost position of the staircase.
Attach the guardrail brace panel to the vertical tube of the uppermost frame assembly. Ensure the upper brace hook is positioned above the third rung of the uppermost frame assembly.
Make sure the hooks are correctly locked on the frame tube of the uppermost frame assembly.

Mi TOWER STAIRS 2.2M & 4.2M - ASSEMBLY

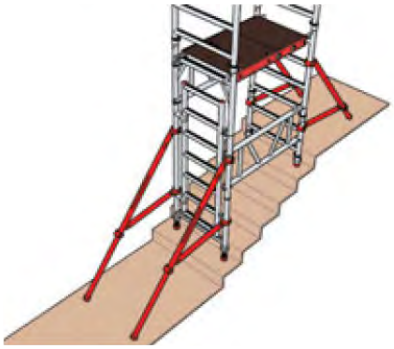


STEP 6

Attach another guardrail brace panel on the opposite side to the gate locking pin. Ensure the upper brace hook is positioned below the eighth rung of the lowermost frame assembly and sixth rung of the uppermost frame assembly. Using the lower guardrail brace panel and a spirit level as a guide, adjust the lowermost legs to bring the Mi TOWER STAIRS square and level.
Ensure all hooks are facing outwards and correctly locked on to the frame tubes.

STEP 7

Stand inside the Mi TOWER STAIRS and fit the platform on the sixth rung of the uppermost frame assembly, ensuring the trap door is positioned at the lowermost end of the Mi TOWER STAIRS.
Make sure that the Wind-Lock catch engages correctly.



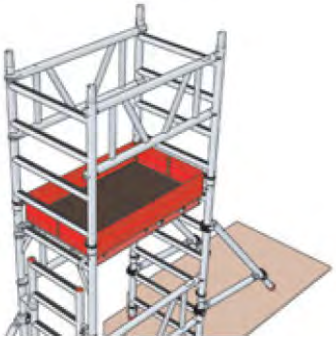
STEP 8

Fit an Easy-Lock stabiliser to each corner of the Mi TOWER STAIRS. The position of the upper and lower couplers will depend on the pitch of the staircase and position of any landings or floors. Ensure the stabiliser footprint is a square as possible within the con nes of the staircase sides. Adjust each stabilisers length so that each foot is in contact with the floor or step.
Make sure all Easy-Lock clamps are correctly secured.

STEP 9

Open the walk-through gate and once in the Mi TOWER STAIRS close and secure it using the gate locking pin. Open the hatch door and using the rungs of the gate, climb until you are half way through the platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet resting on the rungs of the gate below the platform. From this position, you should take a guardrail brace panel, one at a time and attach so that the upper jaws are positioned above the tenth rung of the uppermost frame assembly. **Ensure all hooks are facing outwards and correctly locked on to the frame tubes.**

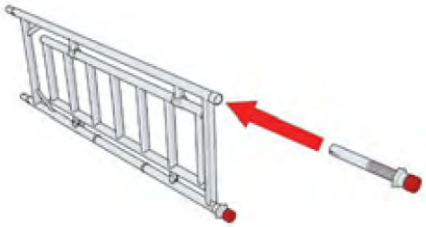
If building a 4.2m platform height Mi TOWER STAIRS, follow step 10 onwards of the 4.7m platform height build. If building a 2.2m platform height Mi TOWER STAIRS proceed to step 10 of this build.



STEP 10

With both panels in position, you may access the platform. Unfold the toe board set and position the toe board sections so that they sit over the outer edges of the platform. The Mi TOWER STAIRS is now complete and ready to use.

Mi TOWER STAIRS 2.7M & 4.7M - ASSEMBLY



STEP 1

Fully insert the adjustable legs with rubber feet into two walk-through gate frames, turning the leg's height adjustment collar to bring alll four legs to the lowest position.

STEP 2

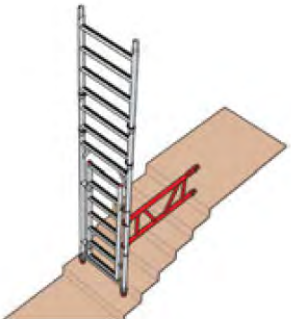
Construct the lowermost frame assembly. Release the easy-clip frame clips on the two rung and one four rung frame. Take the lowermost walk-through gate frame and fit the two rung frame on top followed by the four rung frame.

Apply the Easy-Clip frame clips and ensure they are correctly locked.

STEP 3

Construct the uppermost frame assembly. Release the easy-clip frame clips on one four rung frame. Take the uppermost walk-through gate frame and fit the four rung frame on top.

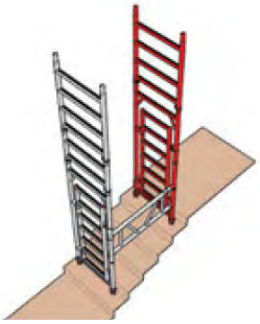
Apply the Easy-Clip frame clips and ensure they are correctly locked.



STEP 4

Place the lowermost frame assembly at the lowermost position of the staircase and attach the guardrail brace panel on the gate locking pin side of the frame ensuring its upper hook is placed above the upper positioning ring.

Ensure the two hooks are facing outwards and correctly locked on to the frame tube.



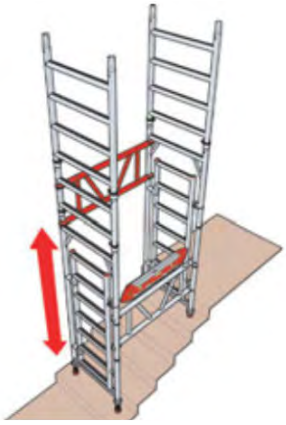
STEP 5

With your assistant holding the lowermost frame assembly and guardrail brace panel, place the uppermost frame assembly at the uppermost position of the staircase.

Attach the guardrail brace panel to the vertical tube of the uppermost frame assembly ensuring the upper brace hook is above the lower positioning ring.

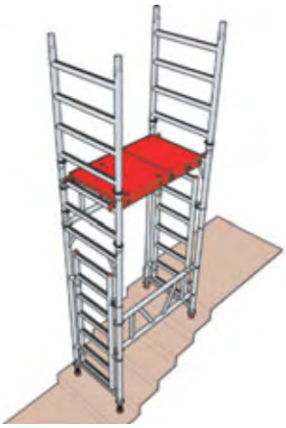
Make sure the hooks are correctly locked on the frame tube of the uppermost frame assembly.

Mi TOWER STAIRS 2.7M & 4.7M - ASSEMBLY



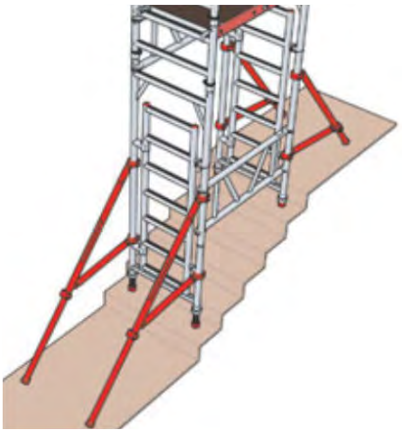
STEP 6

Attach another guardrail brace panel on the opposite side to the gate locking pin. Ensure the upper brace hook is positioned below the tenth rung of the lowermost frame assembly and the eighth rung of the uppermost frame assembly.
It is easier to attach the guardrail brace panel by sliding it towards and then through the lowermost frame assembly before attaching the opposite hooks. Using the lower guardrail brace panel and a spirit level as a guide, adjust the lowermost legs to bring the Mi TOWER STAIRS square and level.
Ensure all hooks are facing outwards and correctly locked on to the frame tubes.



STEP 7

Stand inside the Mi TOWER STAIRS and fit the first platform on the eighth rung of the uppermost frame assembly, ensuring the trap door is positioned at the lowermost end of the Mi TOWER STAIRS.
Make sure that the Wind-Lock catch engages correctly.



STEP 8

Fit an easy-lock stabiliser to each corner of the Mi TOWER STAIRS. The position of the upper and lower couplers will depend on the pitch of the staircase and position of any landings or floors. Ensure the stabiliser footprint is as square as possible within the confines of the staircase sides. Adjust each stabilisers length so that each foot is in contact with the floor or step.
Make sure all Easy-Lock clamps are correctly secured.

STEP 9

Open the lowermost walk-through gate and once in the Mi TOWER STAIRS close and secure it using the gate locking pin. Open the hatch door and using the rungs of the gate, climb until you are half way through the platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet resting on the rungs of the gate below the platform. From this position, you should take a guardrail brace panel, one at a time and attach so that the upper jaws are positioned above the twelfth rung of the uppermost frame assembly. **Ensure all hooks are facing outwards and correctly locked on to the frame tubes.**

At this step if building a 2.7m platform height Mi TOWER STAIRS, jump to step 13. Otherwise carry on from step 10.

Mi TOWER STAIRS 2.7M & 4.7M - ASSEMBLY

STEP 10

Access the first platform and fit one set of conjoined frames to each end of the Mi TOWER STAIRS and apply the easy-lock frame clips. Next, attach a guardrail brace panel to the Mi TOWER STAIRS, with its lower jaw positioned above the fourteenth frame rung on the uppermost frame assembly.
Ensure all claws are facing outward and correctly locked on to the frame tube.

STEP 11

Carefully fit the second platform on the sixteenth rung on the uppermost frame assembly.
Make sure that the Wind-Lock catch is engaged.

STEP 12

Position yourself so that you are half way through the second platform's trap door. Now manoeuvre yourself so that you are sitting on the platform, with your legs through the trap door and your feet resting on the frame rungs. From this position, you should take each of the brace panels, one at a time and attach so that the upper jaws are positioned above the twentieth rung on the uppermost frame assembly.
Ensure all claws are facing outward and correctly locked on to the frame tube.

STEP 13

With both panels in position, you may access the platform. Unfold the toe board set and position the toe board sections so that they sit over the outer edges of the platform. The Mi TOWER STAIRS is now complete and ready to use.

10 POINT PRE-USE SAFETY CHECKLIST (ALL TOWERS)

10 POINT PRE-USE CHECKLIST FOR USERS

1	BEFORE USE	Completed Mi TOWER STAIRS must be checked by a competent person
2	COMPONENTS	Check all components are free from damage
3	STAIRCASE	Ensure staircase is cordened off correctly
4	ENVIRONMENT	Check your Mi TOWER STAIRS is level
5	EASY-LOCK STABILISERS	Check the clamps are correctly secured
6	GUARDRAIL BRACE PANELS	Check they are correctly positioned within the tower structure
7	GUARDRAIL BRACE PANEL HOOKS	Check they are facing outwards and correctly locked on to the frame tube
8	WIND-LOCK CATCHES	Make sure they are engaged correctly
9	EASY-CLIP FRAME CLIPS	Make sure they are correctly locked
10	TOE BOARD SET	Check it is correctly positioned on the platform

... have you been trained

The law requires that personnel using this type of equipment must be competent and qualified to do so. Training is available at HSS Training Solutions
0845 766 7799

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: safety@hss.com

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Group Office: Oakland House, 76 Talbot Rd. Manchester M16 0PQ
Web Site: http://www.hss.com

Know Your Symbols

HSS have created clear Icons to inform the hirer of their responsibilities towards the safe use of hire equipment.

These are designed to reduce the amount of different safety information labels required for each product for hire.

General use PPE / Warning

Clearly marked minimum PPE will be visible on all equipment,

Correct PPE must be worn

HAV Hand Arm Vibration

Danger Rotating blade

Danger Hot exhaust

Danger Electric shock

Caution Abrasive Wheel

Caution Finger trap

Fuel and Supply Types

Pe
Petrol

Di
Diesel

2t
2 - Stroke Petrol

El
Electric

Safe Procedures

All hirers must understand and respect the safe procedures of all equipment.

It is the responsibility of the hirer to maintain and return the equipment in a clean condition and good working order.

Ro
Read OPS Guide

Ou
Outdoor Use only

Hl
Heavy Lifting

Cd
Check Oil daily

Cf
Check Fuel daily

Cw
Check Water daily

Bc
Battery Care

Sh
Safe Height Working

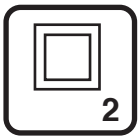
Swl
Refer to Data Plate

V
Check Power Voltage Data Plate

Electrical Safety

Safe wiring procedures.

Ea
Must be Earthed Class 1



Doi
Double Insulated Class 2

Enl
Earth Live Neutral Wire Coding

Return Responsibility

Charges apply to equipment returned dirty and damaged.

Cc
Cleaning Charge

Rc
Repair Charge