

PROSAFE Tower Assembly Instructions

SERIES:

33"/0,85 Narrow Width 57"/1,45 Double Width

CERTIFIED:

DIN EN 1004:2005-05

Designed to meet Work at Height Regulations

Suitable for Electrical Applications

Suitable for use in zone One Classified areas



PROSAFE TOWER

Thank you for purchasing the GENEX Tower.

This manual contains all the information required to correctly assemble PROSAFE towers.

Please ensure you read and fully understand its content before attempting to assemble a tower.

This manual must be made available to the user / operative at all times.

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RISK ASSESSMENT

Prior to assembling the tower it is important that you perform a risk assessment.

This should be carried out by a competent person.

To aid the assessment, we have listed some of the factors that should be checked. Note that additional factors, not listed, will need to be taken into account.

If assembling the tower outside.

- There are no overhead power or communication cables above the area where the tower is to be assembled.
- The ground at the tower's point of contact (castors, baseplates and stabilisers) is capable of supporting the tower's weight without the risk of subsidence.

If assembling the tower indoors.

- There are no overhead obstructions above the area where the tower is to be assembled.
- The ground at the tower's point of contact (castors, baseplates and stabilisers) is capable of supporting the tower's weight.

If assembling as a free-standing tower.

 Platform height does not exceed the maximum free standing height permitted for the base size of tower (see Maximum Working Height).

DAILY CHECKS

The tower must be checked on a daily basis. Use the checklist on the inside back page and if a box can't be ticked, do not use the tower until the fault is rectified. Where a fault is found, access to the tower must be stopped.

BALLAST

If ballast is necessary, it shall be securely positionated and made of rigid materials such as still or concrete, but excluding or granular materials.

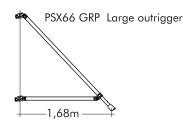
MAXIMUM WORKING HEIGHT

Maximum Free-standing Height				
Base Size	indoor	outdoor		
0.85m x 2.00m	8,00m	6,00m		
0.85m x 2.50m	8,00m	6,00m		
1.45m x 2.00m	12,00m	8,00m		
1.45m x 2.50m	12,00m	8,00m		

The tower can be assembled as a free standing tower and is perfectly safe to use provided the platform height does not exceed the height stated in the chart below.

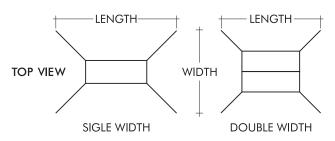
OUTRIGGERS BASE RATIO CHART

For single tower applications, position the outriggers/stabilizers so that the overall lenght is equal to the overall width. All measurements calculated on the maximum platform height allowable based on three (3) times the minimum base dimensions with outriggers.



-1.07m

PSR42 GRP Medium outrigger



GENERAL SAFETY NOTES

- When assembling and using the tower, make sure everyone wears suitable PPE (personal protective equipment).
- Do not roll or level the tower with personnel or materials on platform.
- Do not use the tower near non isolated, live electrical wires or devices, always consult one's the national rules.
 - Always climb the tower on the inside using the ladder frame.
- Do not exert horizontal forces upon the tower in excess of 20kg.
- Never carry items when climbing the tower, keep your hands free.
- Never suspend the tower assembly from another structure.
- Never use steps, trestles or boxes to gain additional height.
- · Never step or stand on the guardrail section.
- Never climb from the tower to another structure or vice versa.
- Do cordon off the base of the tower with cones and barriers to prevent members
 of the public gaining access to the tower.
- Do affix a warning notice to the tower if left unattended.
- Do make sure that a platform hatch is kept closed when not in use.
- When the base section is complete, before processing to add further frames, attach four outriggers, the base width and length must be minimum 1/3 of the tower height.

WIND SPEED SAFETY RULES

Towers assembled outside or in open-ended buildings are at risk from strong winds.

Equivalent speed at 10 metres above ground					
Description	Air Speed	Action to be taken			
Moderate Breeze - Small Branches Move	8 m/s	Do not use the tower			
Strong Breeze - Large Branches Bend	13 m/s	Tie tower to a rigid structure			
Gale - Walking Progress Impeded	17 m/s	Dismantle tower			

SAFE WORKING LOADS

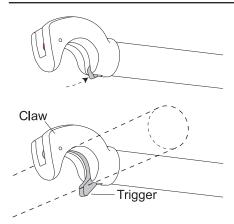
There are two safe working loads (SWL) to consider when using a tower.

- The SWL of individual platforms.
 Each tower platform has been tested to a SWL of 226 kg
- 2. The total SWL of a tower.

 Each tower has a total SWL of 725 KG with threaded legs extended, or 1360 kg with threaded legs retracted.

GETTING TO KNOW THE COMPONENTS AND HOW THEY WORK





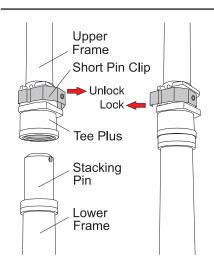
All braces and handrail frames are fitted with locking triggers that are designed to open and close themselves when in contact with the tubing. To release the claw from a tube, move the trigger back and hold as you lift the brace clear.

Braces are colour coded for type and size, see chart

red trigger UHBE06
grey trigger UDBE06
yellow triggedHBE08
blue trigger UDBE08
red trigger U24342E06
yellow trigg ∉2 3996E08

When attaching claws to tubing the opening of the trigger MUST either face down (diagonal braces) or face outward from the tower (horizontal braces and handrail frames).

SHORT PIN CLIPS STACKING PIN AND TEE PLUS

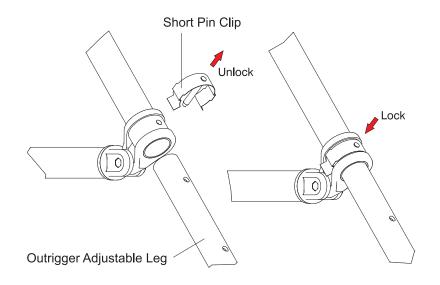


To ensure that frames are secured safely to each other the frames are fitted with short pin clips. Before an upper frame can be slotted onto the frame below, the clips on the lower frame must be moved back.

Slot the upper frame stacking pin into the lower frame then push the short pin clip back to lock the frames together. The tower must not be used if any short pin clips are missing or damaged.

LONG PIN CLIPS AND CLAMPS

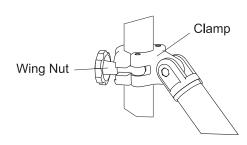
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Adjust the lenghts of the adjustable leg and lock the long pin clip.

To set the outrigger, creating as large a footprint as possible.

Tighten the clamps turning the wing nut.



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PARTS AND CODES LIST



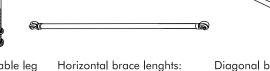
Base Plate cod. BP00



Castor sizes: cod. CA05 Ø 127mm cod. CA08 Ø 203mm



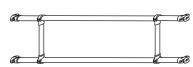
Adjustable leg cod. 28619/A



2,00m cod. UHBE06 2,50m cod. UHBE08



Diagonal brace lenghts: 2,00m cod. UDBE06 2,50m cod. UDBE08

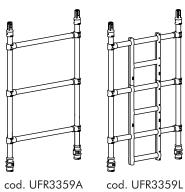


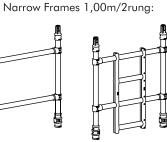
Handrail frame lenghts: 2,00m cod. U24342E06 2,50m cod. U23996E08

Narrow Frames 2,00m/4rung:



Narrow Frames 1,50m/3rung:

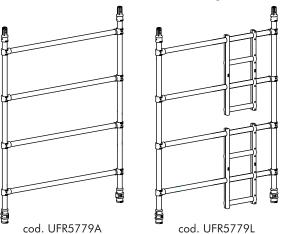




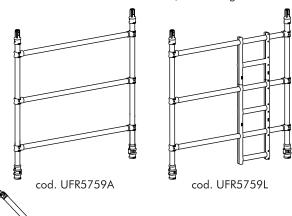
cod. UFR3339A

cod. UFR3339L

Double Frames 2,00m/4rung:



Double Frames 1,50m/3rung:



Double Frames 1,00m/2rung:



cod. UFR5739L

Large Outrigger cod. PSXE66 GRP



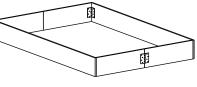
cod. PSRE42 GRP



Standard platform lenghts: 2,00m - cod. USPE06-61 2,50m - cod. USPE08-61

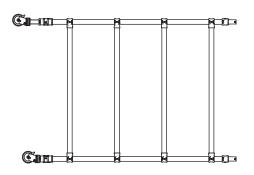
Hatch platform lenghts: 2,00m - cod. UHPE06-61 2,50m - cod. UHPE08-61

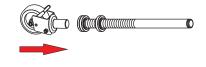
Narrow Toeboard lenghts: 2,00m cod. WTB2906-61 2,50m cod. WTB2908-61



Double Toeboard lenghts: 2,00m cod. WTB5406-61 2,50m cod. WTB5408-61

ERECTING THE TOWER







STEP 1

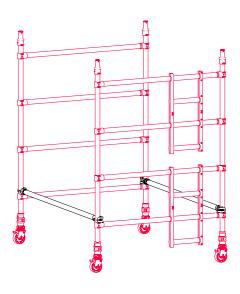
Insert adjustable leg/castor or base plate assemblies into frame.

Lock castors, moving the brake lever fully down.

The base plate doesn't permit to move the tower.

STEP 2

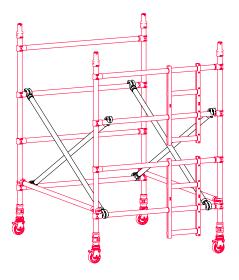
Attach two horizontal braces to the upright of each frame, hooks facing outwards.

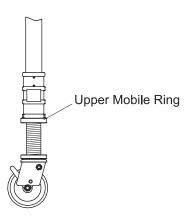


STEP 3

Attach four diagonal braces.

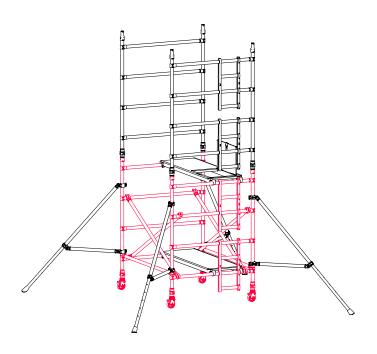
The base section is completed and you should now make any necessary adjustment to set the tower perfectly upright, using the upper mobile ring of the adjustable legs (turn it anticlockwise)





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ERECTING THE TOWER

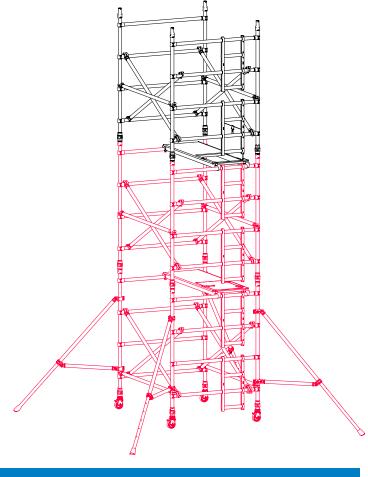


STEP 5

Sitting through the hatch platform, attach two horizontal braces, hooks facing outwards.

Attach four diagonal braces.

Remove the lower plattform.



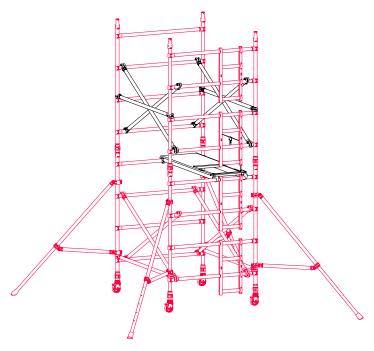
STEP 4

Before processing, attach four outriggers to the base of the tower, unlock the long pin clip to extend their adjustable leg, lock them after the adjustment.

Set a standard platform on lowest rung, it will be removed.

Add two further frames, the short pin clips have to be engaged, lock them after the insertion frames (ref pag. 5)

Attach a hatch platform, three rungs above the lower standard platform.



STEP 6

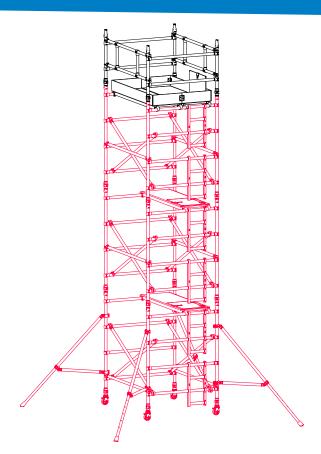
Add two further frames, the short pin clips have to be engaged, lock them after the insertion frames (ref pag. 5).

Attach a hatch platform, four rungs above the lower hatch platform.

Sitting through the hatch platform, attach two horizontal braces, hooks facing outwards.

Attach four diagonal braces.

ERECTING THE TOWER



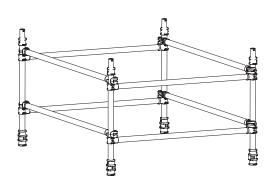
NARROW WIDTH TOWERS

The assembly process for narrow towers is very similar as the double width, other than:

Only one hatch platform is used at every platform level.

Two horizontal and two diagonal braces are required for single upper section.

The protection section is the same.



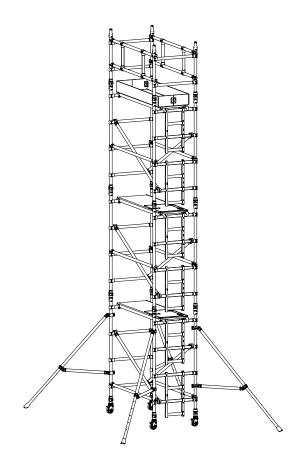
STEP 7

Add two frames(two rungs frame), the short pin clips have to be engaged, lock them after the insertion frames(ref pag. 5).

Attach a standard platform(right part) and a hatch platform(left part) next to the ladder, four rungs above the lower hatch platform.

Sitting through the hatch platform, attach two handrail frame, hooks facing outwards.

Fit the folding toeboard.



The final protection section can be ultimated using four horizontal braces instead of two handrail frames, see the detail.

TOWER DISASSEMBLY

To disassemble the tower reverse the assembly instruction.

OUTRIGGER

Outriggers must be used if upper section is added to the base section.

Adjust outrigger to provide a base width at least one-third of the tower height.

STORAGE & HANDLING

TRANSPORTING

Tower sections should, where practicable, be transported in an upright position rather than laid down. Where components are placed on a vehicle roof rack, ensure the load is balanced and adequately secured.

Check that the weight of the load does not exceed the vehicles SWL. Be aware of the height of the load and ensure there is enough clearance when moving under gateways and bridges.

ASSEMBLING & DISMANTLING

Tower components can be safely handed from helper to assembler (and vice versa) if the assembler can safety grasp the component without over reaching.

NEVER drop a component onto the ground from a height, it is extremely dangerous and could damage it.

STORING

The tower components should be stored under cover in a clean, dry and secure place.

CLEANING

To clean the tower components, a combination of soapy water and jet wash may be used.

MOVING THE TOWER

A tower fitted with base plates cannot be moved when assembled and must be fully dismantled and reassembled at the new location.

A tower fitted with castors can be moved a short distance if the ground surface is suitable. Make sure there are no potholes or manhole covers in the path of the tower.

Remove all materials, tools and personnel. Reposition and lock the outriggers so that the feet are no more than 25mm of the ground. Once ready release the castor breaks and push the tower to its new location.

DO NOT TOW the tower from a vehicle.

Once in position, lock all castors and make any necessary adjustments to set the tower perfectly upright. If the tower is out of square, twisted or leaning extend or retract the legs (turn the adjustment collar) until corrected.

Reposition and lock the stabilisers and where applicable, replace any upper sections.

DAILY CHECK

The tower must be checked on a daily basis. Photocopy the checklist below when required and if a box can't be ticked, do not use the tower until the fault is rectified. Where a fault is found, access to the tower must be stopped.

Date of inspection:	Description:			
nspector:		Lc	ocation:	
Site Address:				
		Damaged		Damaged
Extension Frames			Handrail Frames	
Square			Brace Hooks	
Bonded Joints			Triggers	
Interlock Clips (2 per frame)			Trigger Springs	
Tubes No Splits/cracks			Tubes - No Splits/cracks	
			Bonded Joints	
Braces				
Brace Claws			Outriggers	
Brace Trigger			Knurled Nuts	
Trigger Springs			Stabiliser Coupler	
Tube - No Splits/cracks			Nuts/Bolts/Washers/cracks	
			Rubber Foot	
Standard Plattform			Bonded Joints	
Square				
Plattform Hooks			Castors	
Bolts/Nuts/Washers (Tight)			Brake Mechanism	
Timber			Housing	
Rivets			Spigot	
Profiles			Tyre	
Hatch Plattform			Adjustable Legs	
Square			Thread	
Plattform Hooks			Collar	
Hatch Hinges & trapdoor Latch			Straight	
Bolts/Nuts/Washers (Tight)				
Timber			General condition	
Rivets			Clean	
Profiles				
Toeboards				
Wooden				
Rivets				
Hinges				

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