HIRE · SALE
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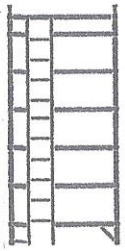
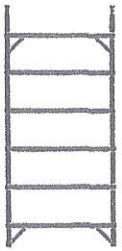
REPAIRS
FOCUS PLANT

TOWER ERECTION GUIDE

TOWER COMPONENT CHECKLIST - CLIMALLOY SPAN TOWER






SIZE OPTIONS 1.8x0.8M S/W 1.8x1.4m D/W	Castor & Leg	6Rung Ladder Frame	6Rung Span Frame	3Rung Ladder Frame	3Rung Span Frame	Guardrail Frame	Trap Platform	Fixed Platform	Horizontal Brace	Diagonal Brace	Toe Board Length	Toe Board Width	Stabilisers/ Outriggers	
								D/W Only					S/W	D/W
HEIGHT *														
1.33m(4'4")	4	-	-	1	1	2	1	1	6	2	2	2		
2.46m(8'1")	4	1	1	-	-	2	1	1	6	4	2	2	Y	-
3.58m(11.9")	4	1	1	1	1	2	2	2	10	6	4	4	Y	-
4.74m(15'7")	4	2	2	-	-	2	2	2	10	8	4	4	Y	Y
5.83m(19'2")	4	2	2	1	1	2	3	3	14	10	6	6	Y	Y
7.02(23'1")	4	3	3	-	-	2	3	3	14	12	6	6	Y	Y
8.15(26'9")	4	3	3	1	1	2	4	4	18	14	8	8	Y	Y
9.3m(30'6")	4	4	4	-	-	2	4	4	18	16	8	8	Y	Y
10.4m(34'9")	4	4	4	1	1	2	5	5	22	18	10	10	Y	Y
11.6m(37'9")	4	5	5	-	-	2	6	6	26	20	12	12	Y	Y
12.7m(41'8")	4	5	5	1	1	2	6	6	26	22	12	12	Y	Y
* Height to Top Platform														

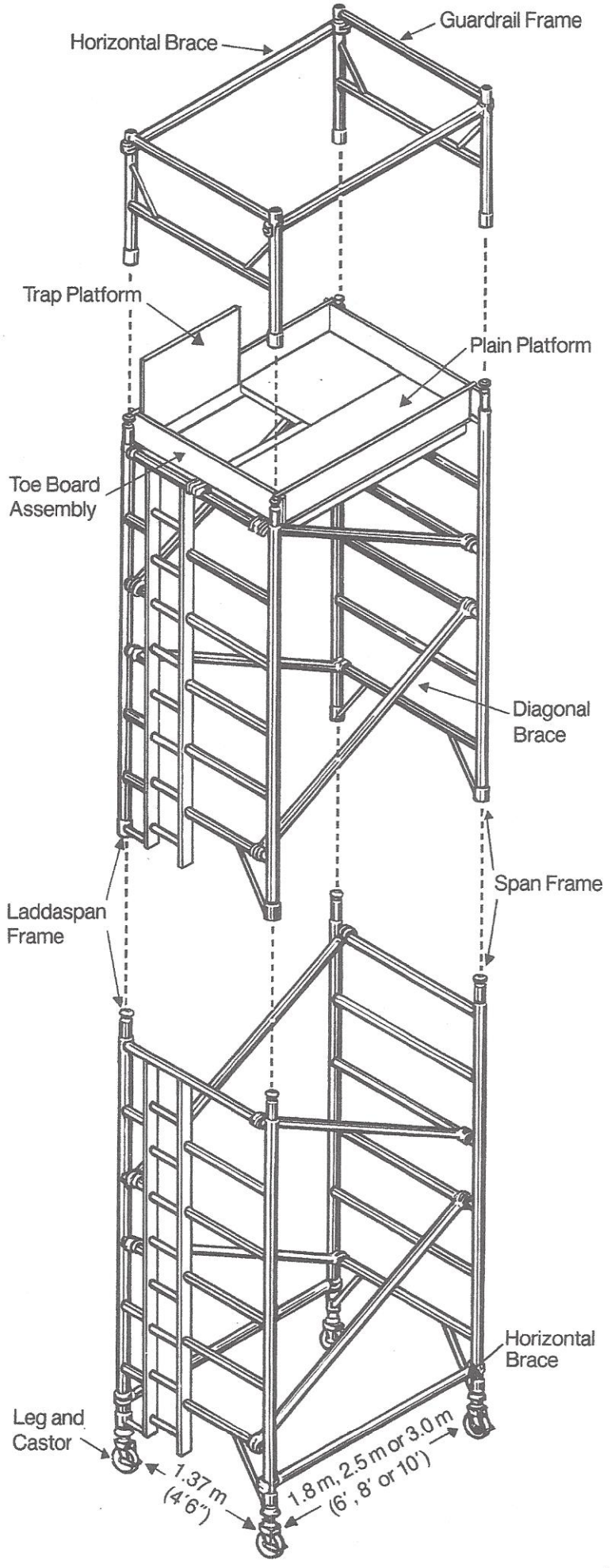
IMPORTANT NOTES :

SAFE WORKING LOADS 272kg (600lbs) on a single platform. Maximum safe working load per tower is 816kg (1800lbs)

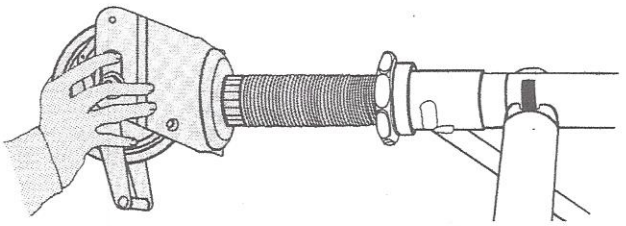
FREE STANDING TOWERS

MAXIMUM HEIGHTS	DOUBLE WIDTH		SINGLE WIDTH	
	EXTERNAL	INTERNAL	EXTERNAL	INTERNAL
BASIC TOWER	3.7M	3.7M	2.5M	2.5M
FIXED STABILISERS	8.7M	10.1M	6.9M	8M
ADJ' STABILISERS	10.4M	12.7M	9.3M	10.4M

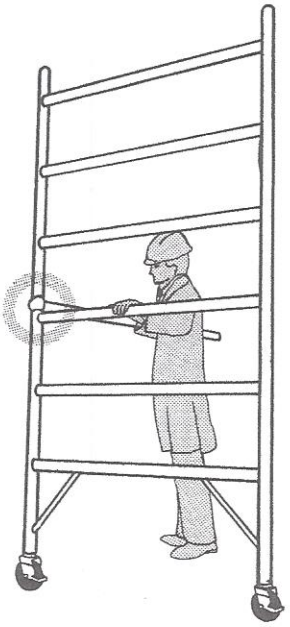
COMPONENT IDENTIFICATION



ASSEMBLY PROCEDURE

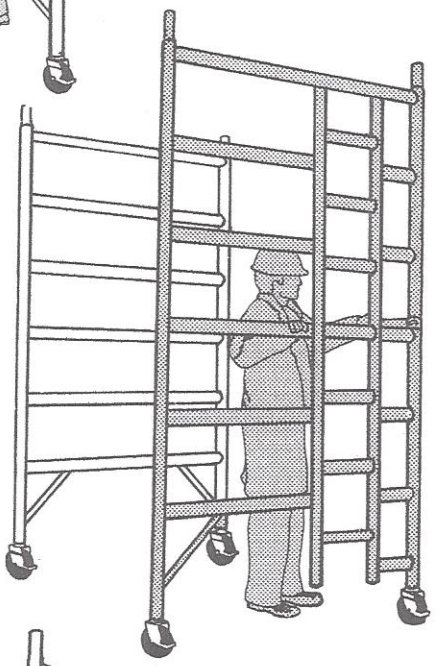


1 Push four braked castor and leg assemblies into a Span Frame (1034), and a Laddaspan Frame (754062). We recommend the use of 8" castors (CT8) for heights over 30 ft.

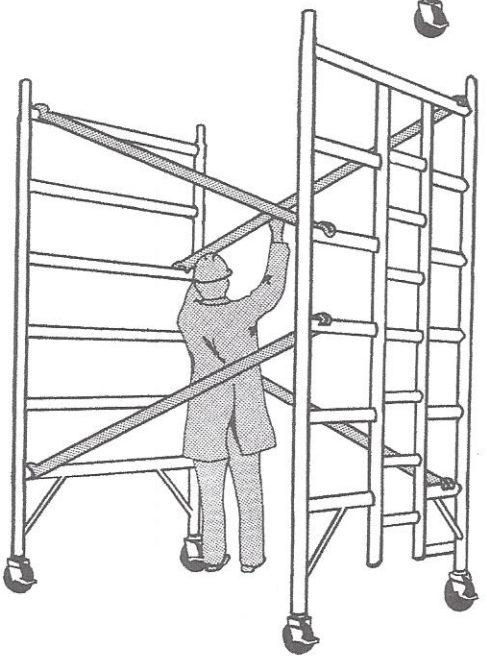


2 Ensure castors are locked. Fit temporary brace (1073 – red) to first span frame.

Horizontal braces are to be fitted to uprights and not to the rungs.

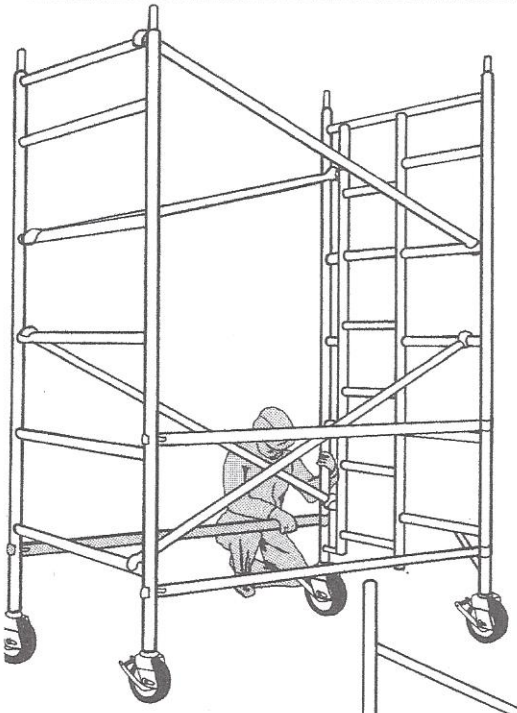


3 Erect second frame. Ensuring ladder is on correct side to align with platform hatch (see 9 above right)

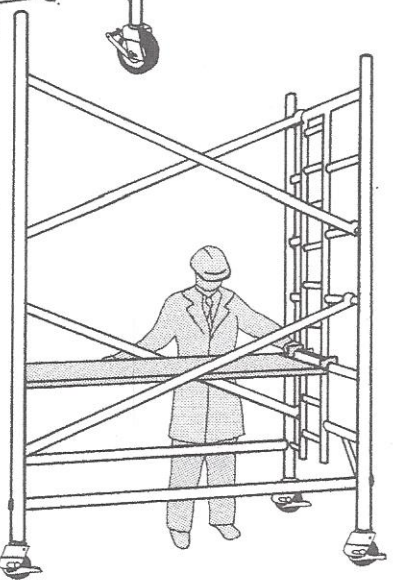


4 Fit four diagonal braces (1074 – orange) to two span frames, from first to third rungs and from fourth to sixth rungs, front to back.

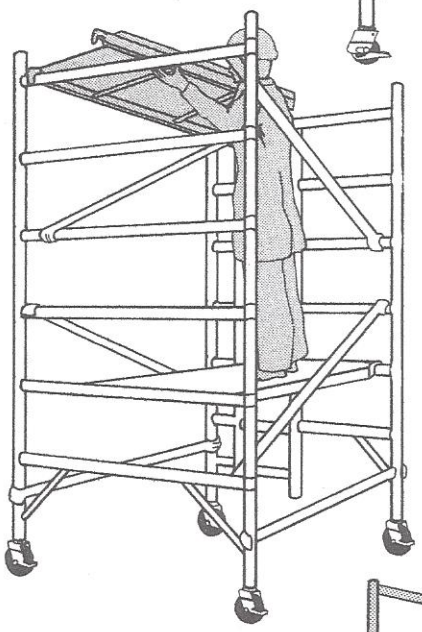
ASSEMBLY PROCEDURE



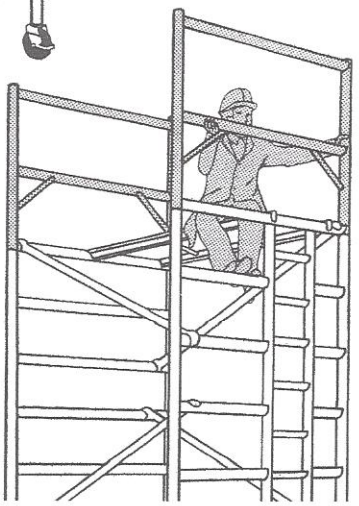
5 Fit foot brace (1073) to upright and move temporary brace to foot tie position below bottom rung of frame. Adjust castors for level, check that brakes are on and adjustable legs locked. If stabilizers/outriggers are required fit now. See pages 5/6.



6 Install one platform (1051) on second horizontal members as a working platform. At this point if Laddaspan Frames are not being used, see options overleaf for ladder access



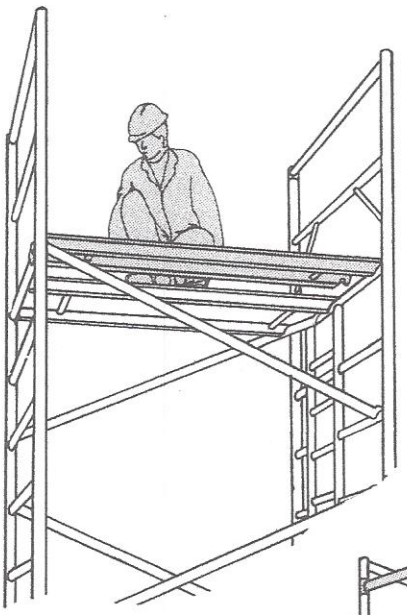
7 Using this platform fit one board (1051) to top of frame, before adding additional frames check to make sure circlips are in the unlocked position. Continue erection to desired height ensuring that platforms are moved as erection progresses and frames are interlocked with clips.



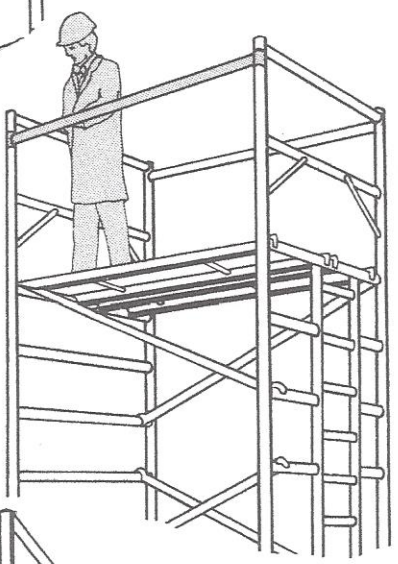
7a Always ensure that stabilizers/ outriggers are fixed before height limit is exceeded, see notes overleaf.

8 Erect guard rail frames (1045).

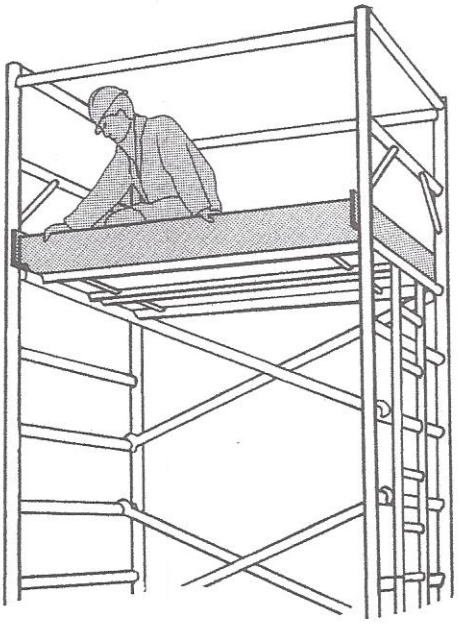
ASSEMBLY PROCEDURE



9 Fit Board ensuring trap opening above the ladder with the hinge to the outside of the Tower.



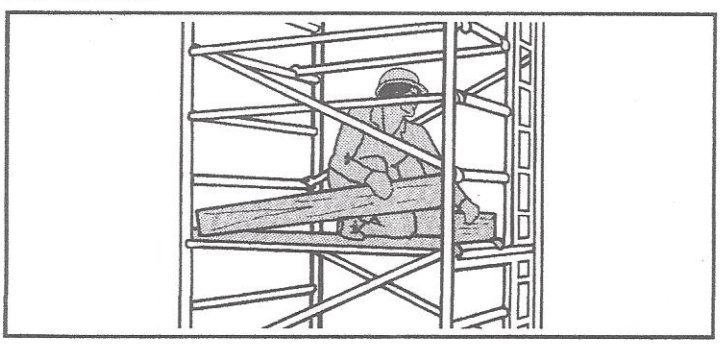
10 Fit two horizontal braces (1073) between two guard rail frames.



11 Fit toe boards (1124 & 1127).

INTERMEDIATE WORKING PLATFORM – TOEBOARDS

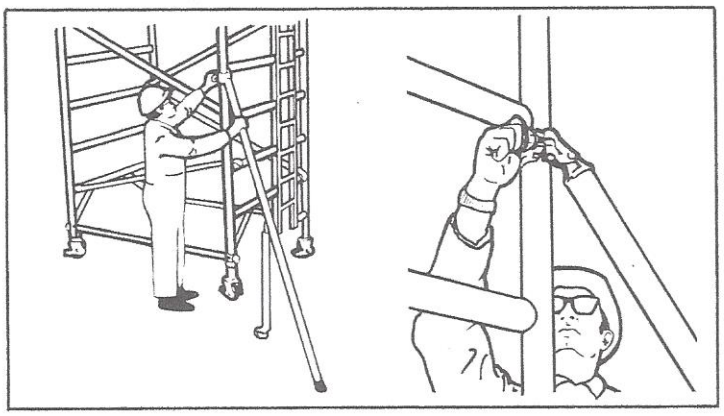
NOTE: *Guardrail Braces must be fitted. See instructions for intermediate Rest Platforms.*



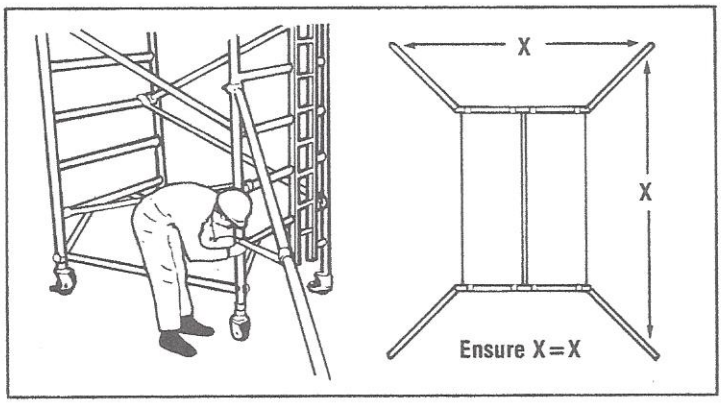
NOTE: *Illustration shows single intermediate working platform. Where materials are to be deposited* ***two*** *platform widths are required.*

STABILISERS

Attach top Coupling of STABILISER to upright of Frame.

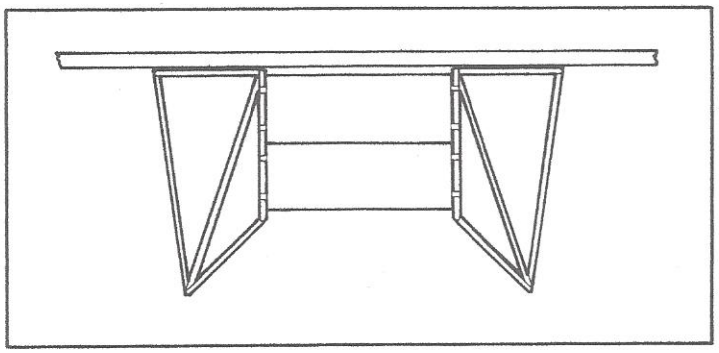


Fit Coupling of lower tube to upright of Frame and ensure stabilisers are correctly positioned (see INSET PLAN VIEW).

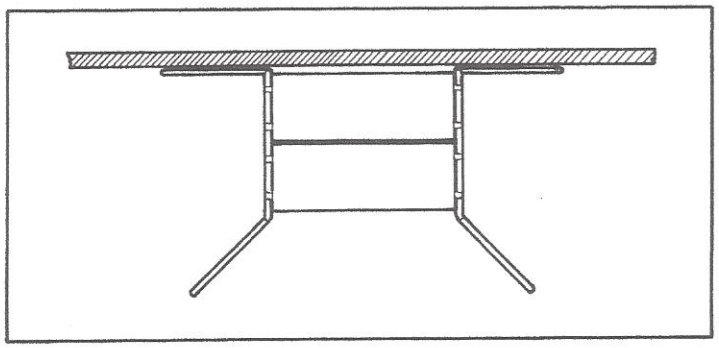


ALTERNATIVE POSITIONS FOR OUTRIGGERS AND STABILISERS

If an obstruction (possibly a wall extending full height of tower) prevents fitting of OUTRIGGERS in the standard manner, illustration shows the ALTERNATIVE METHOD.



Similarly, the ALTERNATIVE METHOD of fitting STABILISER is illustrated below.



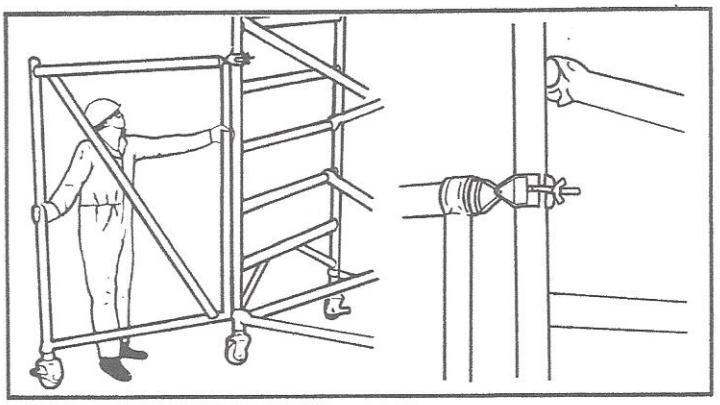
ENSURE THAT STABILISERS/OUTRIGGERS ARE CORRECTLY FITTED TO TOWERS TO PROVIDE A MAXIMUM PLATFORM HEIGHT

To MINIMISE BASE WIDTH RATIO OF 3:1 IF USED OUTDOORS OR 3.5:1 INDOORS.

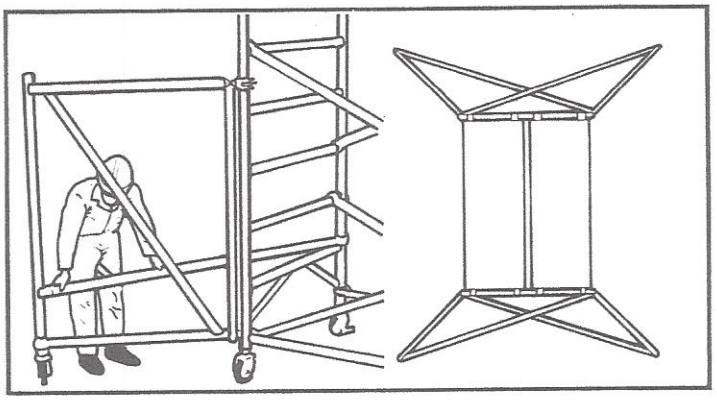
OUTRIGGERS

STANDARD OUTRIGGERS

Fit Outrigger ensuring Top Hook is located to upright of Frame.

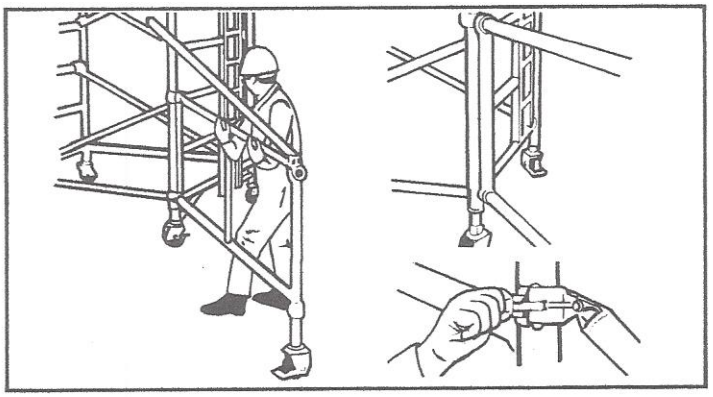


Locate BRACE (SORC) horizontally between upright of Frame and OUTRIGGER as illustrated (see INSET – Plan View position of OUTRIGGERS and locating BRACES).

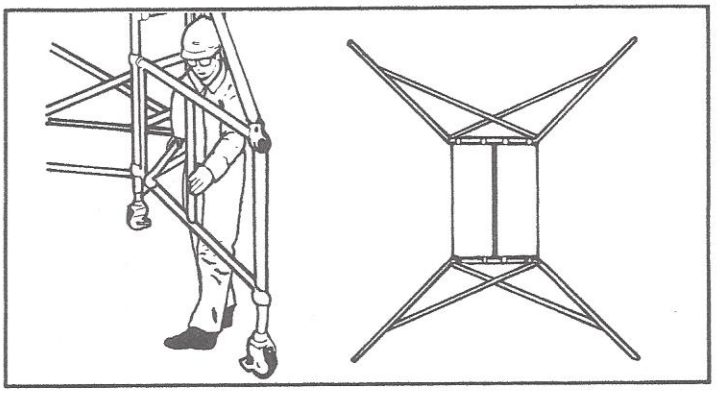


JUMBO OUTRIGGERS

Fit OUTRIGGER Frame in position shown and locate diagonal tube to upright of Frame on 2nd section as illustrated.



Locate Brace horizontally between upright of Frame and OUTRIGGER as shown (see INSET – Plan view of OUTRIGGERS and locating BRACES).



CLIMALLOY SAFETY NOTES

1. Ensure scaffold is erected in accordance with the manufacturers assembly instruction leaflet.
2. Ensure the scaffold is erected on a solid base. Use Soleboards where necessary.
3. When erecting and using, ensure the scaffold is level and in contact with the ground by adjusting the wheels/baseplates and the stabilisers/outriggers.
4. When erecting, brace the scaffold in accordance with the manufacturers assembly instruction leaflet.
5. Ensure that the stabilisers/outriggers are in position to maintain a height to base ratio of 3:1 if used externally, or 3.5:1 if used internally.
6. Fit toe-boards and guardrails to all platforms over 2 m high.
7. Tie in or guy down scaffolds whenever possible and all scaffolds over 10 m in height.
8. Ensure the scaffold is secure when left unattended.
9. Before use ensure the scaffold is complete and that the wheels are locked.
10. Always climb scaffolds from the inside via ladders or stairways.
11. Before moving the scaffold ensure that it is clear of obstructions, overhead and at ground level, and that no persons or materials are upon it.
12. To move the scaffold only apply force by pushing at or near the base.
13. Do note that substances such as hydrochloric (muriatic) acid and potash are highly corrosive to aluminium and can seriously affect the strength of the equipment.
14. Beware of strong wind conditions, especially between buildings. Always tie-in the tower to a rigid structure in exposed conditions. e.g. when the wind force exceeds Beaufort Scale 4.
15. Avoid subjecting the tower to horizontal forces. Horizontal forces must not exceed 20 Kg on free-standing towers. Take care when a drill is being used. Tie in if required.

CAUTION: The following statutory regulations apply to aluminium scaffolds:
1. The Health and Safety at Work Act 1974.
2. The Construction (Working Places) Regulations 1966.

NOTE: If in doubt as to whether the scaffold is safe or not refer to the manufacturers assembly instruction leaflet. If still in doubt contact the manufacturer. For step type scaffolds refer to specific assembly instructions.

MAINTENANCE RULES

1. The equipment should be kept clean, especially joints and moving parts. Components must not be fitted by the use of force.
2. All working parts e.g. plungers, should be lubricated lightly with oil.
3. Do not let parts fall to the ground. Such abuse may reduce the structural integrity and load capacity of the equipment.
4. In the event of damage, Climalloy equipment must only be repaired by qualified personnel approved by the manufacturer.

All dimensions quoted are nominal.

INTERMEDIATE REST PLATFORMS

INTERMEDIATE REST PLATFORMS
Must be fitted at intervals not exceeding two metres. These platforms must cover the full width of the tower and must be fitted with both guardrails and toe boards The guardrails will consist of two horizontal braces fitted to the frame uprights immediately above each of the second and third rungs above the platform level.

SAFE WORKING LOADS

272 kg (600 lbs) on a single platform. Maximum safe working load per tower is 900 kg (1980 lbs).

TYING IN OF TOWERS

Conditions when ties must be used:
1. Where the height of the scaffold is required to be in excess of 3 times the smallest base dimension if used externally or 3,5:1 if used internally.
2. Where there is a possibility of adverse weather conditions, e.g. high winds.
3. Where the structure is located where the wind has a tunnelling effect, e.g. large empty buildings where the ends are open.
4. Where the work is of the nature where force is applied in a horizontal attitude, e.g. drilling.
5. When a ginney wheel is to be used.
6. It is advisable also to tie towers in when they are to be left unattended for any appreciable time. This is especially relevant if they are on the public thoroughfare or where the public has access, e.g. schools, High Streets, etc.

Spacing of ties:
The ties should be attached to the vertical scaffold members commencing at a point 3 m from ground level. The spacing of ties should not exceed 4 m, either horizontally or vertically. If reveal ties are used only 50% of the total ties can be of the reveal type.

FREE-STANDING TOWERS

MAXIMUM HEIGHTS	OUTDOORS	INDOORS
Double width towers		
Basic Tower	4.1 m (13'6")	4.8 m (15'9")
Standard Stabiliser	10.4 m (34'3")	12.7 m (41'9")
Jumbo Stabiliser	15.7 m (51'6")	18.3 m (60')
Outrigger	9.45 m (31')	11.7 m (38'5")
Large/Jumbo outrigger	12.87 m (42'3")	15.15 m 49'7")
Single width towers		
Basic Tower	2.28 m (7'6")	2.66 m (8'9")
Standard Stabiliser	9.3 m (30'4")	10.4 m (34'3")
Outrigger	8.26 m (27'1")	9.45 m (31')
Large/Jumbo outrigger	11.7 m (38'6")	14 m (45'11")