

# CLIMALLOY

A MEMBER OF



PASMA

①

## ALUMINIUM TOWERS 'STEP' & 'SPAN' TECHNICAL SPECIFICATION SHEETS

### COMPONENT BREAKDOWN & ERECTION GUIDE CLIMALLOY OFFERS ALL THESE FEATURES


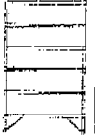








- \* OUTSTANDING STRENGTH
- \* OUTSTANDING SAFETY
- \* ALL TO B.S. 1139 UNDER B.S. 5750 QUALITY SYSTEM
- \* OUTSTANDING VERSATILITY — 2 WIDTHS — 3 LENGTHS
- \* LADDER/STAIRWAY OPTIONS



B.S. 1139

**FORMBY TOOL HIRE**

### SPAN TOWER COMPONENT GUIDE

WIDTH/LENGTH OPTIONS 2 Widths (2'6" (D/W) or 4'6" (D/W)) 3 Lengths 6' 8" or 10'												Stabilizers/ Outriggers (see p. 6 for requirements)		
					SW 2'6"	D/W 4'6"						D/W 4'6"	SW 2'6"	D/W 4'6"
HEIGHT														
1.33m (4'4")	4	—	2	—	1	1	1	2	2	—	—			
2.46m (8'1")	4	2	—	2	1	1	1	4	4	2	2	✓	✓	
3.58m (11'9")	4	2	2	2	1	1	1	4	6	2	2	✓	✓	
4.74m (15'7")	4	4	—	2	1	1	1	4	8	2	2	✓	✓	
5.89m (19'2")	4	4	2	2	1	1	1	4	10	2	2	✓	✓	
7.02m (23'1")	4	6	—	2	1	1	1	4	12	2	2	✓	✓	
8.15m (26'9")	4	6	2	2	1	1	1	4	14	2	2	✓	✓	
9.30m (30'6")	4	8	—	2	2	1	2	8	16	2	2	✓	✓	
10.42m (34'10")	4	8	2	2	2	1	2	8	18	2	2	✓	✓	
11.58m (37'10")	4	10	—	2	2	1	2	8	20	2	2	✓	✓	
12.70m (41'8")	4	10	2	2	2	1	2	8	22	2	2	✓	✓	
13.86m (45'8")	4	12	—	2	2	1	2	8	24	2	2	✓	✓	
*15.80m (49'2")	4	12	2	2	1	1	2	8	26	2	2	✓	✓	

\*D/W only

\*For ladder access options see page 3.



FORMBY TOOL HIRE  
01704 831475

**FORMBY TOOL HIRE**



THE SUPERIOR ALUMINIUM TOWER



Certificate No. 009371

# FORMBY TOOL HIRE

## Instructions for SPAN TOWER erection

2 See next page showing inclined ladders.

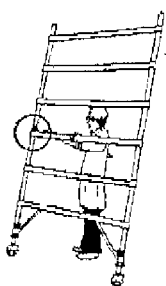
See pages 5/6 showing how the stabilizers and outriggers should be used.

The components overleaf are for a 1.8 (6ft.) Ciim alloy span tower. The following components should be substituted for 2.5m (8ft.) and 3.0m (10ft.) towers.

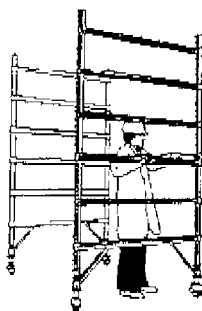
	1.8m (6ft.)	2.5m (8ft.)	3.0m (10ft.)
Horizontal Brace	1073 (red)	1076 (green)	1078 (indigo)
Diagonal Brace	1074 (orange)	1077 (blue)	1079 (clear)
Platform	1051	1052	1053
Trap Platform	1208	1209	1210
Toe Board	1127	1144	1145



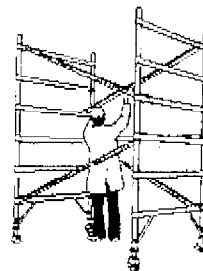
**1** Push four braked castor and leg assemblies into two span frames (1034). We recommend the use of 8" castors (4000) for heights over 30ft.



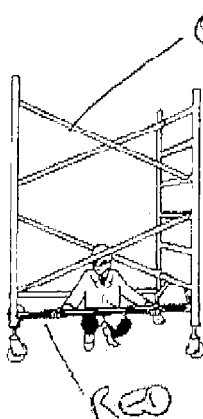
**2** Ensure castors are locked. Fit temporary brace (1073 — red) to first span frame. Horizontal braces are to be fitted to uprights and not to the rungs.



**3** Erect second span frame

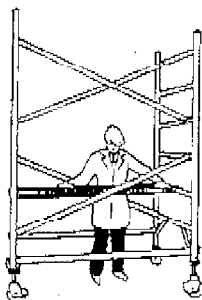


**4** Fit four diagonal braces (1074 — orange) to two span frames, from first to third rungs and from fourth to sixth rungs, front to back.



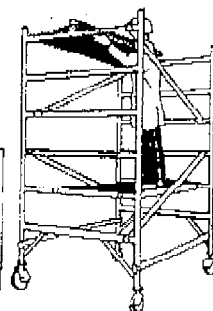
ORANGE

**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.



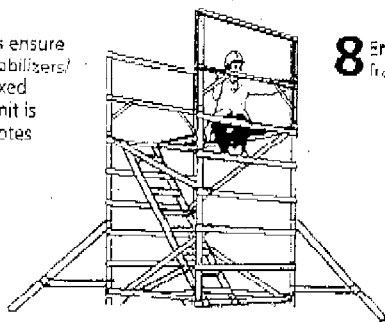
**6** Install one platform (1051) on second horizontal members as a working platform

Fit STABILISERS NOW

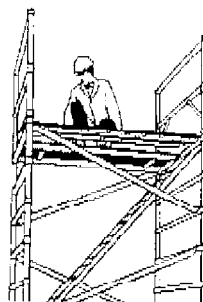


**7** Using this platform fit one board (1051) to top of frame, before adding additional frames check to make sure circlips are in the unlocked position. Continue erection to desired height ensuring that platforms are moved as erection progresses and frames are interlocked with clips.

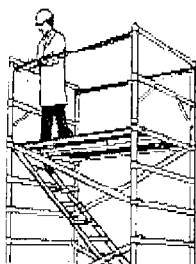
**7a** Always ensure that stabilizers/outriggers are fixed before height limit is exceeded, see notes overleaf.



**8** Erect guard rail frames (1045).



**9** Fit trap platform board.



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



**11** Fit toe boards (1124 & 1127).

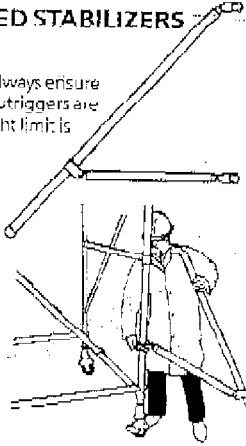
### INSTRUCTION FOR SPAN TOWER SINGLE WIDTH ERECTION

The erection of single width span towers follows exactly the same procedure for that of double width span towers except that only two diagonal braces (1074 — orange) can be used for each set of span frames for single width towers up to 4.00m (13'0"). However, four diagonal braces per set of span frames are recommended.

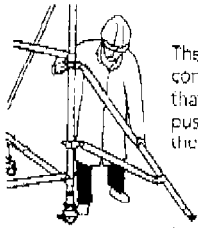
SEE PAGE 6 FOR MAXIMUM SAFE WORKING HEIGHT.

### USE OF FIXED STABILIZERS

(Part No. 1090) always ensure that stabilizers/outriggers are fixed before height limit is exceeded.

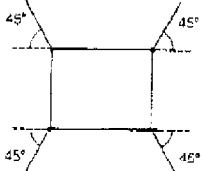


The fixed stabilizer is first coupled by its lower connection.



Then make the top connection, ensuring that the rubber foot is pushed firmly on to the ground.

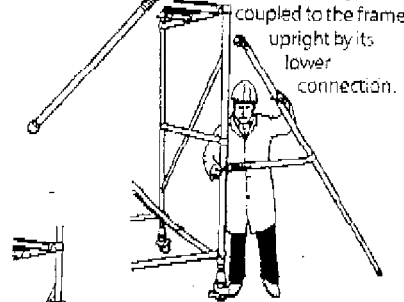
Four stabilizers must be used per tower, one at each corner ensuring that the angle between the stabilizers and the plane of the tower is 45°



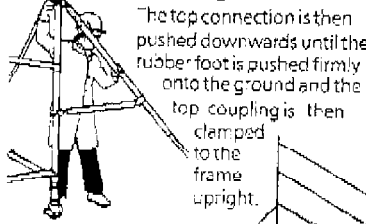
**NOTE:** If towers are to be moved, we recommend the use of mobile outriggers (see below). If stabilizers have to be used, tower heights should be reduced before they are moved to not more than 2 1/2 x the smallest base dimension. After moving a tower, reposition and check stabilizers to regain ground contact.

### USE OF ADJUSTABLE STABILIZERS

(Part No. 1091) The adjustable section is extended to its maximum.

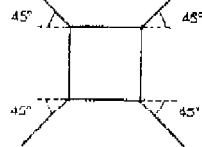


The adjustable stabilizer is first coupled to the frame upright by its lower connection.



The top connection is then pushed downwards until the rubber foot is pushed firmly onto the ground and the top coupling is then clamped to the frame upright.

Four adjustable stabilizers must be used per tower one at each corner.



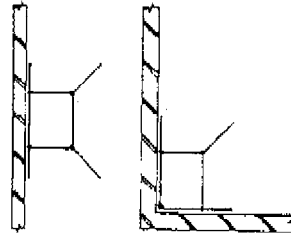
ensuring that the angle between the stabilizers and the plane of the tower is 45°.

**NOTE:** If towers are to be moved we recommend the use of mobile outriggers (see overleaf). If stabilizers have to be used, tower heights should be reduced before they are moved to not more than 2 1/2 x the smallest base dimension.

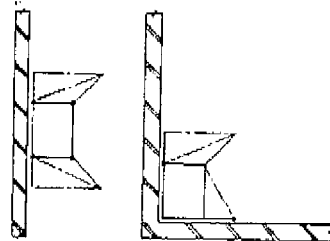
## Instructions for use of STABILISERS and OUTRIGGERS

### USE OF STABILIZERS AND OUTRIGGERS AGAINST WALLS AND IN CORNERS

When a tower fitted with fixed or adjustable stabilizers is to be used against a wall or in a corner, the stabilizers must be used in one or more of the following configurations:



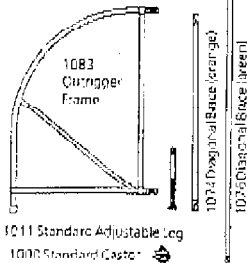
Where outriggers or jumbo outriggers are fitted, as detailed overleaf, they must be used in one of the following ways if the tower has to be positioned against a wall or in a corner.



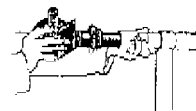
If circumstances require you to deviate from these standard stabilizer/outrigger configurations, you are advised to contact your nearest Stephens & Carter Depot and obtain the advice of our design engineers. This advice is normally given without any charge.

### USE OF ROLLING OUTRIGGER ASSEMBLY

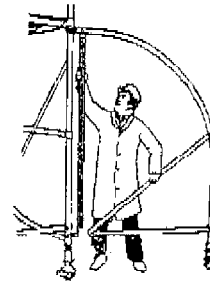
3



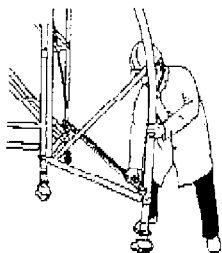
Always ensure that outriggers/stabilizers are fixed before the height limit is exceeded.



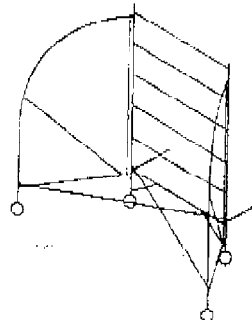
Firstly, push the braked castor and leg assembly into the foot of the outrigger frame.



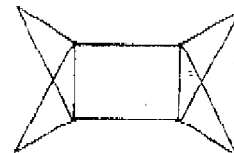
Then clip the outrigger on to the frame upright and adjust leg assembly so that the castor is securely on the ground.



Finally, clip diagonal braces into position using 1074 braces (orange) for 762mm (2'6") wide frames or 1076 (green) for 1372mm (4'6") wide frames. The braces should reach from one upright to the outer edge of the outrigger frame on the adjacent upright.



Four outrigger assemblies should be used so that there is one on each corner, giving an appearance on plan of

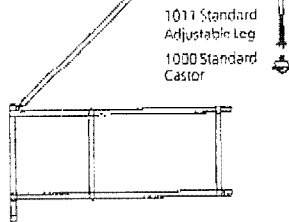


**NOTE:** After moving a tower reposition and check outriggers to regain ground contact.

SEE PAGE 6 FOR MAXIMUM SAFE WORKING HEIGHT.

### USE OF JUMBO OUTRIGGER ASSEMBLY

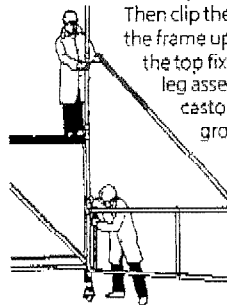
1199 Jumbo Outrigger Frame



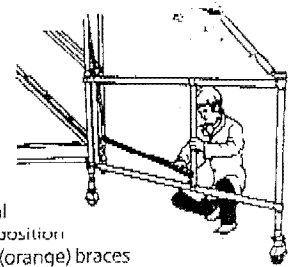
Firstly, push the braked castor and leg assembly into the foot of the outrigger frame.



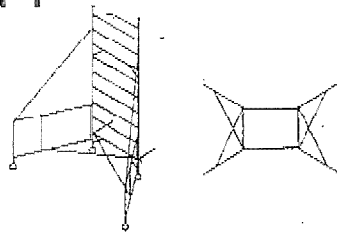
Then clip the outrigger on to the frame upright, connect the top fixing and adjust leg assembly so that the castor is firmly on the ground.



Finally, clip the diagonal braces into position using 1074 (orange) braces for 762mm (2'6") wide frames or 1076 (green) for 1377mm (4'6") wide frames. The braces should reach from one upright to the centre upright of the outrigger frame on the adjacent upright.



Four outrigger assemblies should be used so that there is one on each corner, giving an appearance on plan of:



**NOTE:** After moving a tower reposition and check jumbo outriggers to regain ground contact.

SEE BELOW FOR SAFE WORKING HEIGHTS.

#### IMPORTANT NOTES

##### DOUBLE WIDTH AND STEP TOWERS

The height of free-standing towers should not exceed 4.11m (13'6") unless stabilizers or outriggers are used.

If **SMALL FIXED STABILIZERS** (1090) are used, the maximum platform height should not exceed

- 8.70m (28'6") externally
- 10.10m (33'2") internally

If **STANDARD FIXED** (1092) and **ADJUSTABLE STABILIZERS** (1091) are used, the maximum platform height should not exceed

- 10.44m (34'3") externally
- 12.72m (41'9") internally

If **ROLLING OUTRIGGERS** are used the maximum platform height should not exceed

- 9.45m (31'0") externally
- 11.73m (38'5") internally

If **JUMBO OUTRIGGERS** are used, the maximum platform height should not exceed

- 12.87m (42'3") externally
- 15.15m (49'7") internally

If the tower is not free-standing but tied-in to a building, the proper Climalloy doubles (part no. 1200) or swivels (part no. 1232) should be used. The side to be connected to the tower is marked with red paint (if it is aluminium) or has a number 2 cast into its flap (if it is galvanised). Use in any other way will cause permanent damage to the equipment

#### SINGLE WIDTH TOWERS

The height of free-standing towers should not exceed by 2.28m (7'5") unless stabilizers or outriggers are used.

If **SMALL FIXED STABILIZERS** (1090) are used, the maximum platform height should not exceed

- 6.90m (22'7") externally
- 8.00m (26'3") internally

If **STANDARD FIXED** (1092) or **ADJUSTABLE STABILIZERS** (1091) are used, the maximum platform height should not exceed

- 9.30m (30'5") externally
- 10.44m (34'3") internally

assuming that the stabilizers are fully extended. If retracted, maximum platform heights should not exceed

- 6.90m (22'7") externally
- 8.00m (26'3") internally

If **ROLLING OUTRIGGERS** are used, the maximum platform height should not exceed

- 8.26m (27'1") externally
- 9.45m (31'0") internally

If **JUMBO OUTRIGGERS** are used, the maximum platform height should not exceed

- 11.73m (38'6") externally
- 14.0m (45'11") internally

Distribution S.W.L. 272 kg (600 lbs) on a single platform. Both step and span type maximum S.W.L. per tower is 816 kg (1800 lbs).

#### SAFETY NOTES

**DO NOT** — leave free-standing towers in exposed or windy conditions without securely tying-in.

**DO NOT** — exceed recommended based width to height ratios.

**DO NOT** — overload platforms or towers.

**DO NOT** — use towers on soft ground without suitable base (i.e. scaffolding boards).

**DO NOT** — use on sloping ground without taking adequate precautions against overturning.

**Access to the working platforms should be made through the INSIDE of the tower. DO NOT lean a ladder against the outside of a tower; we recommend the use of our clip-in internal ladders.**

The 1.35m (4'5") wide span frames may be used with step frames.

The 1.8m (6'0") boards are used in both step and span.

The clip-in stairway may be used in both step and span towers 1.8m (6'0") long.

For all ten variations in tower base size, there are only seven standard brace sizes.

Legs and castors fit all end frames.

#### PROVISION OF INFORMATION

Your attention is drawn to Section 6 of 'The Health & Safety at Work Act 1974'.

If you have purchased or hired any equipment for resale or rehire, you are required to provide your customer with sufficient information to ensure, as far as is reasonably practical, that the article when used correctly, is without risk to safety or health.

Therefore this erection guide should be passed on to your customer and further copies may be obtained through your local Depot.

Additional information on all aspects of the safe use of towers is covered within the PASMA Operator's Code of Practice. These are available from your local Depot.

Always insure that stabilizers/ outriggers are fixed before height limit is exceeded — see previous notes.

