

# EURO TOWERS LTD

UK Manufacturer of Aluminium Access Equipment

## TOWER CANTILEVER SYSTEMS



## ASSEMBLY GUIDE

FOR USE WITH EURO TOWERS LADDER FRAME 3T TOWER SYSTEMS ONLY

SIDE ON CONFIGURATION AVAILABLE FOR 2M, 2.5M AND 3M PLATFORM LENGTHS.

SINGLE WIDTH (SW) AND DOUBLE WIDTH (DW) END ON CONFIGURATION AVAILABLE FOR DW TOWERS  
OPTIONAL GATED FRAME AVAILABLE UPON REQUEST

Mobile access working towers may only be assembled and dismantled by persons familiar with these instructions

# Kitting Lists and Ballast Requirements

ALL INFORMATION AND ADVICE STATED WITHIN THIS DOCUMENT IS SUBJECT TO THE USE OF EURO TOWERS MANUFACTURED PRODUCTS ONLY.

ALL MAIN TOWER STRUCTURES MUST BE BUILT USING EURO TOWERS DOUBLE WIDTH OR SINGLE WIDTH 3T TOWER INSTRUCTION MANUALS.

Euro Towers Ltd Cantilever Tower Systems conforms to BS 1139 Part6:2015 Load Class 3, for all applicable tests and standards applicable please refer to the supplied design certificate.

The access class for climbing this tower is Access Class D (Vertical Ladder).

MANUALS AVAILABLE TO DOWNLOAD FROM [www.eurotowers.co.uk](http://www.eurotowers.co.uk)

## TYPES OF CANTILEVER

All tower platform heights in metres and weights in Kilograms

DOUBLE WIDTH -SIDE CONFIGURATION	
QTY	DESCRIPTION
2	A ET DW Cantilever Frame
10	B ET Swivel Couplers
1	C Cantilever Rigger Platform
2	D ET 3 Rung DW Plain Frame
4	E Horizontal Brace
4	F Plain Platform
2	G 5" Castor & Leg Assembly
1	H Diagonal Brace
1	I Toeboard Assembly
4	J Toeboard Clip

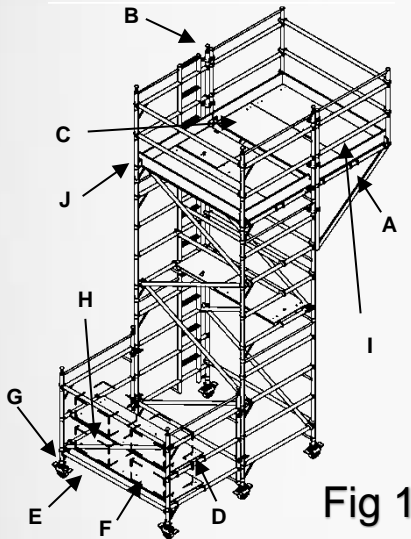


Fig 1

SINGLE WIDTH -SIDE CONFIGURATION	
QTY	DESCRIPTION
2	A ET SW Cantilever Frame
10	B ET Swivel Couplers
1	C Cantilever Rigger Platform
2	D ET 3 Rung DW Plain Frame
4	E Horizontal Brace
3	F Plain Platform
2	G 5" Castor & Leg Assembly
1	H Diagonal Brace
1	I Toeboard Assembly
4	J Toeboard Clip

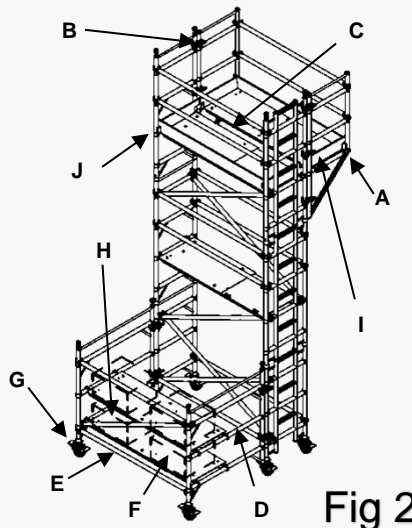


Fig 2

DOUBLE WIDTH -END CONFIGURATION	
QTY	DESCRIPTION
2	A ET DW Cantilever Frame
10	B ET Swivel Couplers
1	C Cantilever End Infill Platform
2	D ET 3 Rung DW Plain Frame
6	E 4ft Horizontal Brace
4	F 4ft Plain Platform
2	G 5" Castor & Leg Assembly
1	H 4ft Diagonal Brace
1	I Toeboard Assembly
8	J Toeboard Clip

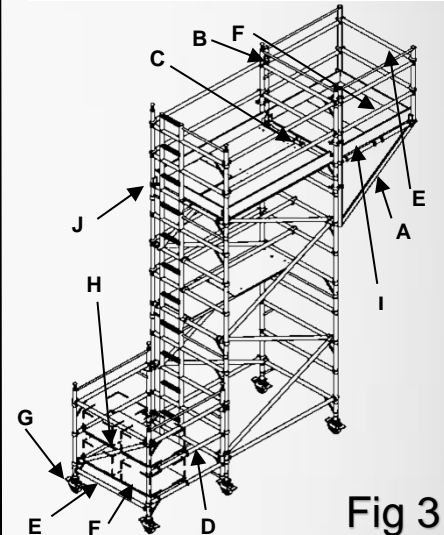


Fig 3

Double Width - Side Configuration	
Tower Platform Height	Ballast Required Buttress
1.41	235
1.88	265
2.34	295
2.81	325
3.27	355
3.73	385
4.2	410
4.66	440
5.13	470
5.59	500
6.05	540
6.52	570
6.98	600
7.45	630
7.91	660
8.37	690
8.84	720
9.3	750
9.77	780
10.23	810
10.69	840
11.16	870
11.62	900
12.09	930

Single Width - Side Configuration	
Tower Platform Height	Ballast Required Buttress
1.41	230
1.88	280
2.34	330
2.81	380
3.27	430
3.73	455
4.2	465
4.66	515
5.13	565
5.59	615
6.05	635
6.52	685
6.98	735
7.45	790
7.91	840

Double Width - End Configuration	
Tower Platform Height	Ballast Required Buttress
1.41	157
1.88	179
2.34	201
2.81	223
3.27	245
3.73	267
4.2	272
4.66	294
5.13	316
5.59	338
6.05	361
6.52	383
6.98	405
7.45	433
7.91	455
8.37	477
8.84	499
9.3	521
9.77	543
10.23	565
10.69	587
11.16	609
11.62	631
12.09	653

**Please Note:**

Due to the lack of demand, the Single Width End Configuration is a bespoke application and would not be included within the standard cantilever guidance.

If you have a requirement for this cantilever application, please contact Euro Towers Ltd for additional information – Tel: 01604 644 774

# General Safety Rules – safety in use

## Check Tower AND Cantilever Assembly Instructions before use.

### Assembly and use

DO NOT assemble a Cantilever structure on unstable ground or objects such as loose bricks, boxes or blocks. Only a sound rigid footing must be used. Check working area for uneven ground, such as slopes and differences in level. Check overhead that the area into which the structure is to be erected contains no obstructions, particularly electrical or radio radiation hazards.

DO NOT assemble or use a Cantilever structure near un-insulated, live or energised electrical machinery or circuits or near machinery in operation.

If an overhead hazard exists, head protection should be worn.

Do not use any Cantilever structure which is damaged, which has not been properly assembled, which is not firm and stable, and which has any missing or damaged parts.

Ensure that all frames, braces and platforms are firmly in place and that all locking hooks are functioning correctly. Ensure that all frame locking clips are engaged. If any missing, replace them.

Ensure the whole structure is level and that ALL castors are locked when the structure is in position.

Check that you have taken all necessary precautions to prevent the Cantilever structure being moved or rolling away. Always apply all castor brakes or use base plates. Refer to the assembly images in the following sections of this guide for castor operation.

Ensure that the cantilever structure is within the maximum platform height stated.

Should you require additional platform height, check kit list on this and the Cantilever structure Kitting Guide for components and ballast requirements.

NEVER extend your adjustable legs to achieve extra height, these are for levelling only.

NEVER use a ladder or other objects on the platform to achieve additional height.

Guardrails and toe boards must be fitted to the working platforms.

Stabilisers or outriggers and ballast shall always be fitted when specified, ensure the couplers tighten and loosen freely, ensure the rubber foot is securely fitted and in good condition. Ensure all pins on telescopic stabilisers are fitted and secure.

Never jump on to or off platforms.

Never climb on horizontal or diagonal braces. Do not gain access or descend from the working platform other than by the intended access system.

CAUTION: Excessive side loads due to working from the tower may cause the structure to be unstable. Special consideration should be given to side loads including vibrations.

The maximum horizontal force per working bay is 30Kg.

DO NOT work from the built-in ladders, they are a means of access only.

Ensure that ALL swivel couplers are tightened fully once in position. All couplers MUST be specific aluminium tower couplers.

DO NOT lean ladders against the tower or climb the outside of the Cantilever structure. Whatever your intended access system, it should only be used inside the Cantilever structure.

The tube couplers supplied by Euro Towers are EN74 Certified, any additional couplers used MUST conform to this standard.

All components should be passed up or down by hand where possible. Where this is not possible; use a reliable lifting material (e.g. a strong rope) employing a reliable knot (e.g. clove hitch) to ensure safe fastening and always lift within the footprint of the prefabricated tower scaffold (i.e. within the area bounded by the stabilisers). Tools and materials can be lifted in the same way where required. Do not use mechanical hoists.

Mobile Scaffold Towers are not designed to be lifted or suspended by a crane or any other lifting device.

### Weather conditions

The weather forecast must be considered before use, and reviewed regularly, depending on the duration the structure is onsite.

The tower structure has been assessed for wind loads equating to 17mph (27kph, 7.6m/s, Beaufort scale 4).

If the wind speed is likely to get up to or exceed 25mph the tower should be tied to a suit adjacent structure, if no structure is available you must dismantle the tower completely before it is exposed to these strong winds.

If greater wind speeds are forecast, the tower must be dismantled while it is still safe to do so.

Be cautious if assembling or using the cantilever structure in open places, such as hangers or unclad buildings. In such circumstances the wind forces can be increased, as a result of the funnelling effect.

The structure is highly conductive and must not be used when there is a risk of lightning strikes.

Exercise caution when touching unprotected metal components in extreme high or low temperatures.

Outdoor cantilever structures should, wherever possible, be secured to a building or other structure. It is good practice to tie in all cantilever structures of any height, especially when they are left unattended, or in exposed or windy conditions.

DO NOT use sheeted cantilever structures, tarpaulin or other materials which could act like a sail and potentially make the



# General Safety Rules – Safe Working Loads and Ballast

## Moving and lifting

BEFORE moving a Cantilever structure, refer be aware of overhead obstructions (such as live electrical cables or building members).

DO NOT try to move an assembled cantilever structure. If you must move the cantilever structure, remove all materials and personnel; dismantle the cantilever section and tower to no higher than 4.2m. Remove the ballast last.

When moving a cantilever structure, force must always be applied at the base.

The cantilever structure should only be moved manually on firm, level ground which is free from obstacles. Normal walking speed should not be exceeded during relocation. The ground over which a Cantilever structure is moved should be capable of supporting the weight of the structure.

It is not permissible to attach and use hoisting facilities on Cantilever structures, unless specifically provided for by the manufacturer. It is not permissible to attach bridging sections between a Cantilever structure and a building.

## Anchors, ties and ballast

When used, anchors in concrete and masonry must be selected and installed in accordance with BS 8539.

This prefabricated tower scaffold has been designed to be properly secured to a suitable adjacent supporting structure capable of withstanding the forces imposed upon it by the attachment of the tower. Devices for securing the tower must be simultaneously rigid in both tension and compression and capable of withstanding and transmitting the loads imposed by the tower to the supporting structure.

Ballast must be made of rigid materials such as steel or concrete but excluding liquids or granular materials.

All ballast weight MUST be spread evenly amongst the platform/platforms and secured in position.

Ensure that you have the correct ballast weight for the tower size required AND a means of securing it to the Buttress Structure Platforms. (All ballast weight guidance can be found on page 3)

NEVER assemble the cantilever structure without the correct Ballast

NEVER remove the ballast with the cantilever structure in place.

## Permissible loads and persons on the structure

The MAXIMUM number of persons on a Cantilever Structure at any time during assembly and dismantling is TWO.

The MAXIMUM number of simultaneous Work Platforms allowed is ONE.

The MAXIMUM number of persons allowed on a Work Platform is ONE.

The MAXIMUM number of persons allowed on a Rest Platform is ONE.

The MAXIMUM number of persons on a work platform permitted to exert a horizontal load of 30Kg is:

- 1 person per bay for bays less 4m in length and
- 2 persons per bays for bays greater than 4m in length.

Platforms must be installed with vertical distances between them not exceeding 2.1m when assembling and dismantling.

DO NOT exceed the safe working load of the platform or structure by accumulating debris, material or tools on platforms as these can be a significant additional load.

## Use of prefabricated scaffold towers for access to adjacent structures.

This is not suitable for this application without express guidance from the manufacturer.

### SAFE WORKING LOADS (SWL)

CANTILEVER / WORKING PLATFORM **150Kg**

COMPLETED STRUCTURE **750Kg**

BUTTRESS PLATFORM **250 Kgs** (Per Platform)

MAXIMUM IMPOSED POINT (LEG) LOADS PER LEG INCLUDING  
MAXIMUM BALLAST **400Kg**

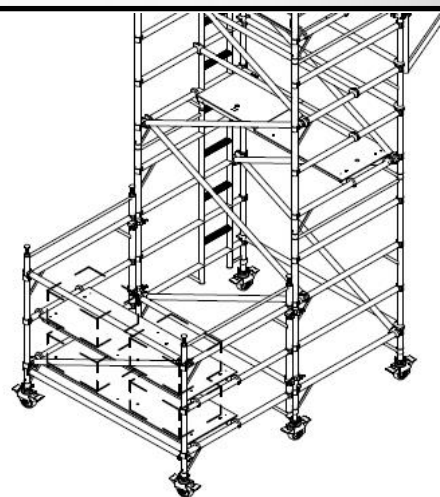
### IMPORTANT BALLAST INFORMATION

**ALL ballast weight MUST be evenly spread over platforms AND secured in place.**

**ALL ballast weight MUST be of solid material, not sand, water, other liquids or granular materials. Additional Buttress platforms may be required on some towers.**

**NEVER remove the Ballast whilst the Cantilever Section is in place or before the Tower is below 2m platform height.**

**Single Width Cantilever Frames from Side On or End On builds use the same Ballast weight stated.**



# Attaching the buttress section to an existing tower

## GENERIC BUILD METHOD FOR SIDE ON AND END ON BUTTRESS SECTIONS

### SIDE ON APPLICATIONS

Euro Double and Single Width 2m, 2.5m and 3m Towers

### END ON APPLICATION

Euro Double Width 2m, 2.5m and 3m Towers only

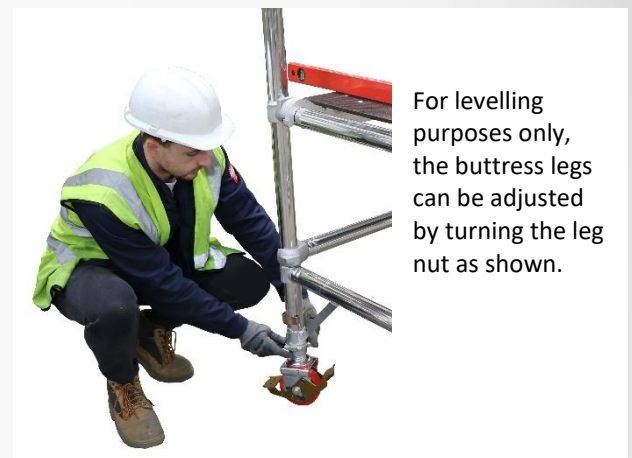
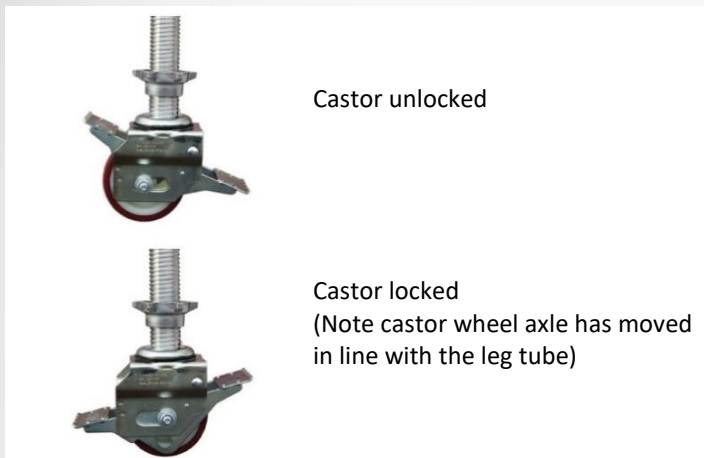
All buttress frames **MUST** be Double Width.

End on position; Cantilever frames should be at the plain frame end, Buttress at the Ladder Frame end. Refer to images earlier in this guide.

Before you start, ensure that all items required for your tower and cantilever are present and that you have sufficient suitable ballast weights and a means to secure them to the platforms to ensure safe use of the completed structure. ALL ballast weights **MUST** be of solid material, not sand, water, other liquids or granular material. Additional buttress platforms may be required on some towers.

If stabilizers are not being used in your main tower structure, build the base section of the tower and then add the buttress and ballast weights before you complete the tower following the Double Width or Single Width 3T tower instruction manual.

**On some towers where the diagonal brace pattern ends one rung below the work platform, you may step the last pair of braces up one rung to support the work platform and cantilever (if required).**



1. Insert castor and leg into each of the buttress frames and lock brake when in position. See image above for castor brake operation.



2. Secure each buttress frame to the main tower structure using an aluminium swivel coupler above the top and bottom rungs of each frame.



3. Fit 1 buttress horizontal brace to the vertical above the top rung and 1 below the bottom rung at the end away from the main tower structure.



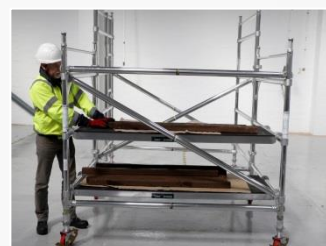
4. Fit 1 diagonal brace to the bottom rung of a buttress frame at the furthest point away from the main tower.



5. Fit ballast platform to the bottom rung at the end away from the main tower structure. Level the buttress using a spirit level as a guide; re-tighten couplers before continuing (if required).



6. Fit the required ballast weight evenly on the ballast platform(s) and secure in place.



7. All additional ballast platforms and weights must be positioned on the buttress frames only, starting above the first.



8. Secure the ballast to the platform(s) to avoid accidental removal.



# Single and Double Width SIDE ON cantilever assembly

## SIDE ON –Single Width Towers MUST use Single Width Cantilever System only

The following information shall be displayed prominently at the base of the tower in accordance with BS1139 Part 6:2015

- a) The maximum number of simultaneous working platforms permitted is **ONE**
- b) The maximum number of persons permitted on the working platform during use is **ONE**
- c) The maximum number of persons permitted on the tower during assembly and dismantling is **TWO**
- d) The maximum number of persons permitted on any **ONE** platform on a cantilever tower is **ONE**
- e) The maximum **safe working load (SWL)** on working platform(s) on a cantilever system is **150kg**
- f) The maximum **SWL** on the cantilever tower is **750kg**
- g) The load class of the prefabricated tower scaffold is **Load Class3**



1. Fit 3 swivel couplers to the vertical above the top rung, below the platform and 2 rungs below the platform. Repeat on the opposite side.



2. Fit cantilever frames; ensure the rungs line up to avoid trip hazards on the platform decks. Ensure couplers are tight. Repeat on the opposite side.



3. From behind the guardrail braces fit the rigger infill platform.



4. From behind the guardrail braces fit a platform next to the rigger infill platform.  
**(Single Width Cantilever go to step 6)**



5. Fit an additional set of guardrails to the top 2 rungs on the Cantilever frames for the new platform, pushing down to lock on.



6. Reposition the inner braces to the verticals above the top 2 rungs on the Cantilever frames to complete your working guardrails.  
**(Single Width Cantilever go to step 8)**



7. From behind the inner set of guardrails fit a platform next to the one you are on. Go to Step 9



8. Reposition the inner set of braces to store ready for safe dismantling on the tower



9. Fit toeboard clips and toeboards to complete the structure.

**Dismantling is the reverse of assembly.**

**You MUST reposition the stored braces before removing any platforms.**

# Single and Double Width END ON cantilever (DW Tower ONLY)

## END ON- Double Width Tower Only, Single or Double Width Cantilever Systems

Please note the images below show the optional gate frame. See kitting list for part numbers and weights.



1. Fit 3 swivel couplers to the vertical above the top rung, below the platform and 2 rungs below the platform. Repeat on the opposite side



2. Fit cantilever frames; ensure the rungs line up to avoid trip hazards on the platform decks. Ensure couplers are tight. Repeat on the opposite side.



3. From behind the rungs/gate fit the rigger end infill platform.



4. From behind the rungs fit a platform on the nearside of the cantilever system next to the end infill platform. (Single Width Cantilever go to step 7)



5. From behind the rungs fit an additional set of guardrails to the top 2 rungs on the Cantilever frames for the new platform, pushing down to lock on.



6. Going through the rungs or gate, from behind the new guardrails fit a platform next to the one you are on.



7. Fit 2 braces to the verticals above the top 2 rungs on the Cantilever frames to form your working guardrails.



8. Reposition the inner set of braces to store ready for safe dismantling on the tower. (Double Width Cantilever only)



9. Fit toe-board clips and toe-boards to complete the structure.

**Dismantling is the reverse of assembly.**

**You MUST reposition the stored braces before removing any platforms.**

**SINGLE WIDTH CANTILEVER TOWER (SIDE CONFIGURATION)**

WORK HEIGHT	3.41m	3.88m	4.34m	4.81m	5.27m	5.73m	6.20m	6.66m	7.13m	7.59m	8.05m	8.52m	8.98m	9.45m	9.91m
OVERALL TOWER HEIGHT	2.66m	3.13m	3.59m	4.06m	4.53m	4.98m	5.45m	5.91m	6.38m	6.84m	7.30m	7.77m	8.23m	8.70m	9.16m
PLATFORM HEIGHT	1.41m	1.88m	2.34m	2.81m	3.27m	3.73m	4.20m	4.66m	5.13m	5.59m	6.05m	6.52m	6.98m	7.45m	7.91m
<b>PARTS LIST - TOWER ONLY</b>															
CASTOR	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ADJUSTABLE LEG	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 RUNG FRAME		2	1			2	1			2	1			2	1
3 RUNG LADDER FRAME		2	1			2	1			2	1			2	1
4 RUNG FRAME			1	2	1	2	1	3	2	2	3	4	3	3	4
4 RUNG LADDER FRAME			1	2	1	1	2	3	2	2	3	4	3	3	4
5 RUNG FRAME	1				1				1					1	
5 RUNG LADDER FRAME	1				1				1					1	
DIAGONAL BRACE	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9
HORIZONTAL BRACE	6	6	6	10	10	10	10	10	10	10	14	14	14	14	14
TRAPDOOR PLATFORM	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3
STANDARD STABILIZER		4	4	4	4	4	4	4							
TELESCOPIC STABILIZER									4	4	4	4	4	4	4
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>TOWER WEIGHT (Kgs)</b>															
2m WEIGHT	72	94	100	124	130	133	142	145	157	160	165	193	198	201	207
2.5m WEIGHT	81	103	109	139	145	148	156	160	172	175	181	214	220	223	228
3m WEIGHT	92	114	117	152	158	162	170	174	186	190	196	234	240	243	249

<b>PARTS LIST - SW CANTILEVER SIDE CONFIGURATION</b>															
SW CANTILEVER FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SWIVEL COUPLERS	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CANTILEVER INFILL BOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PLAIN PLATFORM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RED PLASTIC T/BOARD CLIP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

<b>PARTS LIST - SW BUTTRESS</b>															
SWIVEL COUPLERS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 RUNG SW PLAIN FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PLAIN PLATFORM	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4
CASTOR	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LEG ASSEMBLY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
DIAGONAL BRACE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

<b>TOWER WEIGHT INCLUDING CANTILEVER AND BUTTRESS (Kgs)</b>															
2m CANTILEVER TOWER WEIGHT	181	203	209	233	239	242	251	254	266	269	273.99	302	307	310	316
2.5m CANTILEVER TOWER WEIGHT	203	225	231	261	267	270	278	282	294	297	303	336	342	345	350
3m CANTILEVER TOWER WEIGHT	235	257	260	295.03	301	305	313.02	317	329	333	339	377	383	386	392



**DOUBLE WIDTH CANTILEVER TOWER WITH DOUBLE WIDTH CANTILEVER (SIDE CONFIGURATION)**

WORK HEIGHT	3.41m	3.88m	4.34m	4.81m	5.27m	5.73m	6.20m	6.66m	7.13m	7.59m	8.05m	8.52m	8.98m	9.45m	9.91m	10.37m	10.84m	11.30m	11.77m	12.23m	12.69m	13.16m	13.52m	14.06m		
OVERALL TOWER HEIGHT	2.66m	3.13m	3.59m	4.06m	4.53m	4.98m	5.45m	5.91m	6.38m	6.84m	7.30m	7.77m	8.23m	8.70m	9.16m	9.60m	10.07m	10.53m	11.00m	11.46m	11.92m	12.39m	12.75m	13.29m		
PLATFORM HEIGHT	1.41m	1.88m	2.34m	2.81m	3.27m	3.73m	4.20m	4.66m	5.13m	5.59m	6.05m	6.52m	6.98m	7.45m	7.91m	8.37m	8.84m	9.30m	9.77m	10.23m	10.69m	11.16m	11.52m	12.06m		
PARTS LIST																	KIT LIST ABOVE 8m PLATFORM HEIGHT FOR INDOOR USE ONLY									
CASTOR	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
ADJUSTABLE LEG	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
3 RUNG FRAME		2	1				1																			
3 RUNG LADDER FRAME		2	1				1																			
4 RUNG FRAME			1	2	1		2	3	2	1		4	3	2	1		4	3	2	1		4	3	2		
4 RUNG LADDER FRAME			1	2	1		2	3	2	1		4	3	2	1		4	3	2	1		4	3	2		
5 RUNG FRAME	1				1	2			1	2	3		1	2	3	4	1	2	3	4	5	2	3	4		
5 RUNG LADDER FRAME	1				1	2			1	2	3		1	2	3	4	1	2	3	4	5	2	3	4		
DIAGONAL BRACE	2	2	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24		
HORIZONTAL BRACE	6	6	6	6	10	10	10	10	10	10	10	14	14	14	14	14	14	14	14	14	18	18	18	18		
TRAPDOOR PLATFORM	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4		
PLAIN PLATFORM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
STANDARD STABILIZER				4	4	4	4	4	4																	
TELESCOPIC STABILIZER										4	4	4	4	4	4	4	4	4	4							
JUMBO STABILIZER																						4	4	4	4	
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
TOWER WEIGHT (Kgs)																										
2m WEIGHT	91	98	106	127	153	160	172	176	184	195	203	232	241	244	248	257	269	273	281	285	302	331	339	343		
2.5m WEIGHT	104	111	120	140	175	179	192	196	205	215	224	258	267	271	275	284	296	301	309	313	330	365	374	378		
3m WEIGHT	109	121	131	152	193	197	210	214	224	234	245	283	293	297	301	310	323	327	337	341	358	399	408	412		

**PARTS LIST - DW CANTILEVER SIDE CONFIGURATION**

DW CANTILEVER FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SWIVEL COUPLERS	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CANTILEVER INFILL BOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PLAIN PLATFORM	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
RED PLASTIC T/BOARD CLIP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**PARTS LIST - DW BUTTRESS**

SWIVEL COUPLERS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 RUNG DW PLAIN FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PLAIN PLATFORM	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
CASTOR	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LEG ASSEMBLY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
DIAGONAL BRACE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**TOWER WEIGHT INCLUDING CANTILEVER AND BUTTRESS (Kgs)**

2m CANTILEVER TOWER WEIGHT	223	230	238	259	285	292	304	308	316	327	335	364	373	376	380	389	401	405	413	417	434	463	471	475
2.5m CANTILEVER TOWER WEIGHT	255	262	271	291	326	330	343	347	356	366	375	409	418	422	426	435	447	452	460	464	481	516	525	529
3m CANTILEVER TOWER WEIGHT	279	291	301	322	363	367	380	384	394	404	415	453	463	467	471	480	493	497	507	511	528	569	578	582

**DOUBLE WIDTH TOWER WITH DOUBLE WIDTH CANTILEVER (END CONFIGURATION)**

WORK HEIGHT	3.41m	3.88m	4.34m	4.81m	5.27m	5.73m	6.20m	6.66m	7.13m	7.59m	8.05m	8.52m	8.98m	9.45m	9.91m	10.37m	10.84m	11.30m	11.77m	12.23m	12.69m	13.16m	13.52m	14.06m		
OVERALL TOWER HEIGHT	2.66m	3.13m	3.59m	4.06m	4.53m	4.98m	5.45m	5.91m	6.38m	6.84m	7.30m	7.77m	8.23m	8.70m	9.16m	9.60m	10.07m	10.53m	11.00m	11.46m	11.92m	12.39m	12.75m	13.29m		
PLATFORM HEIGHT	1.41m	1.88m	2.34m	2.81m	3.27m	3.73m	4.20m	4.66m	5.13m	5.59m	6.05m	6.52m	6.98m	7.45m	7.91m	8.37m	8.84m	9.30m	9.77m	10.23m	10.69m	11.16m	11.52m	12.06m		
<b>PARTS LIST</b>																	KIT LIST ABOVE 8m PLATFORM HEIGHT FOR INDOOR USE ONLY									
CASTOR	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
ADJUSTABLE LEG	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
3 RUNG FRAME		2	1				1																			
3 RUNG LADDER FRAME			2	1				1																		
4 RUNG FRAME			1	2	1		2	3	2	1		4	3	2	1		4	3	2	1		4	3	2		
4 RUNG LADDER FRAME			1	2	1		2	3	2	1		4	3	2	1		4	3	2	1		4	3	2		
5 RUNG FRAME	1				1	2			1	2	3		1	2	3	4	1	2	3	4	5	2	3	4		
5 RUNG LADDER FRAME	1				1	2			1	2	3		1	2	3	4	1	2	3	4	5	2	3	4		
DIAGONAL BRACE	2	2	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24		
HORIZONTAL BRACE	6	6	6	6	10	10	10	10	10	10	10	14	14	14	14	14	14	14	14	14	18	18	18	18		
TRAPDOOR PLATFORM	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4		
PLAIN PLATFORM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
STANDARD STABILIZER				4	4	4	4	4	4																	
TELESCOPIC STABILIZER										4	4	4	4	4	4	4	4	4	4							
JUMBO STABILIZER																						4	4	4	4	
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
<b>TOWER WEIGHT (Kgs)</b>																										
2m WEIGHT	91	98	106	127	153	160	172	176	184	195	203	232	241	244	248	257	269	273	281	285	302	331	339	343		
2.5m WEIGHT	104	111	120	140	175	179	192	196	205	215	224	258	267	271	275	284	296	301	309	313	330	365	374	378		
3m WEIGHT	109	121	131	152	193	197	210	214	224	234	245	283	293	297	301	310	323	327	337	341	358	399	408	412		

**PARTS LIST - DW CANTILEVER END CONFIGURATION**

DW CANTILEVER FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SWIVEL COUPLERS	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CANTILEVER END INFILL BOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4FT HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT PLAIN PLATFORM	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
RED PLASTIC T/BOARD CLIP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**PARTS LIST - 4FT BUTTRESS**

SWIVEL COUPLERS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 RUNG DW PLAIN FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT PLAIN PLATFORM	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
CASTOR	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LEG ASSEMBLY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT DIAGONAL BRACE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**TOWER WEIGHT INCLUDING CANTILEVER AND BUTTRESS (Kgs)**

2m CANTILEVER TOWER WEIGHT	192	199	207	228	254	261	273	277	285	296	304	333	342	345	349	358	370	374	382	386	403	432	440	444
2.5m CANTILEVER TOWER WEIGHT	205	212	221	241	276	280	293	297	306	316	325	359	368	372	376	385	397	402	410	414	431	466	475	479
3m CANTILEVER TOWER WEIGHT	210	222	232	253	294	298	311	315	325	335	346	384	394	398	402	411	424	428	438	442	459	500	509	513

**DOUBLE WIDTH TOWER WITH SINGLE WIDTH CANTILEVER (END CONFIGURATION)**

WORK HEIGHT	3.41m	3.88m	4.34m	4.81m	5.27m	5.73m	6.20m	6.66m	7.13m	7.59m	8.05m	8.52m	8.98m	9.45m	9.91m	10.37m	10.84m	11.30m	11.77m	12.23m	12.69m	13.16m	13.52m	14.06m
OVERALL TOWER HEIGHT	2.66m	3.13m	3.59m	4.06m	4.53m	4.98m	5.45m	5.91m	6.38m	6.84m	7.30m	7.77m	8.23m	8.70m	9.16m	9.60m	10.07m	10.53m	11.00m	11.46m	11.92m	12.39m	12.75m	13.29m
PLATFORM HEIGHT	1.41m	1.88m	2.34m	2.81m	3.27m	3.73m	4.20m	4.66m	5.13m	5.59m	6.05m	6.52m	6.98m	7.45m	7.91m	8.37m	8.84m	9.30m	9.77m	10.23m	10.69m	11.16m	11.52m	12.06m
<b>PARTS LIST</b>	<b>KIT LIST ABOVE 8m PLATFORM HEIGHT FOR INDOOR USE ONLY</b>																							
CASTOR	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ADJUSTABLE LEG	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 RUNG FRAME		2	1				1																	
3 RUNG LADDER FRAME		2	1				1																	
4 RUNG FRAME			1	2	1		2	3	2	1		4	3	2	1		4	3	2	1		4	3	2
4 RUNG LADDER FRAME			1	2	1		2	3	2	1		4	3	2	1		4	3	2	1		4	3	2
5 RUNG FRAME	1				1	2			1	2	3		1	2	3	4	1	2	3	4	5	2	3	4
5 RUNG LADDER FRAME	1				1	2			1	2	3		1	2	3	4	1	2	3	4	5	2	3	4
DIAGONAL BRACE	2	2	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
HORIZONTAL BRACE	6	6	6	6	10	10	10	10	10	10	10	14	14	14	14	14	14	14	14	14	18	18	18	18
TRAPDOOR PLATFORM	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4
PLAIN PLATFORM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
STANDARD STABILIZER				4	4	4	4	4	4															
TELESCOPIC STABILIZER										4	4	4	4	4	4	4	4	4	4	4				
JUMBO STABILIZER																					4	4	4	4
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOWER WEIGHT (Kgs)																								
2m WEIGHT	91	98	106	127	153	160	172	176	184	195	203	232	241	244	248	257	269	273	281	285	302	331	339	343
2.5m WEIGHT	104	111	120	140	175	179	192	196	205	215	224	258	267	271	275	284	296	301	309	313	330	365	374	378
3m WEIGHT	109	121	131	152	193	197	210	214	224	234	245	283	293	297	301	310	323	327	337	341	358	399	408	412

**PARTS LIST - SW CANTILEVER END CONFIGURATION**

SW CANTILEVER FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SWIVEL COUPLERS	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CANTILEVER END INFILL BOARD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4FT HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT PLAIN PLATFORM	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
RED PLASTIC T/BOARD CLIP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOE-BOARD ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**PARTS LIST - 4FT BUTTRESS**

SWIVEL COUPLERS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 RUNG DW PLAIN FRAME	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT HORIZONTAL BRACE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT PLAIN PLATFORM	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4
CASTOR	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
LEG ASSEMBLY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4FT DIAGONAL BRACE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**TOWER WEIGHT INCLUDING CANTILEVER AND BUTTRESS (Kgs)**

2m CANTILEVER TOWER WEIGHT	205	212	220	241	267	274	286	290	298	309	317	346	355	358	362	371	383	387	395	399	416	445	453	457
2.5m CANTILEVER TOWER WEIGHT	220	227	236	256	291	295	308	312	321	331	340	374	383	387	391	400	412	417	425	429	446	481	490	494
3m CANTILEVER TOWER WEIGHT	226	238	248	269	310	314	327	331	341	351	362	400	410	414	418	427	440	444	454	458	475	516	525	529



**Cantilever and Buttress Packs**

2m DOUBLE WIDTH CANTILEVER - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	Total
2	DWCF	ET DW Cantilever Frame	8.8	17.6
6	KSSC	ET Swivel Couplers	1	6
1	CRP1	2m Cantilever In-fill board	9	9
2	BKH1	2m Horizontal Brace	1.93	3.86
2	PKP1	2m Plain Platform	13.22	26.44
4	RTBC	Red Plastic Toe-Board Clip	0.02	0.08
1	CAT1	2m Cantilever DW Side On Toeboard Assembly	10	10
				<u>73</u>

2m DOUBLE WIDTH BUTTRESS - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
4	KSSC	ET Swivel Couplers	1	4
2	FKD3	ET 3 Rung DW Plain Frame	6.77	13.54
2	BKH1	2m Horizontal Brace	1.93	3.86
2	PKP1	2m Plain Platform	13.22	26.44
2	K5CR	5" Castor	3.23	6.46
2	KALA	Leg Assembly	0.98	1.96
1	BKD1	2m Diagonal Brace	2.06	2.06
				<u>58.32</u>
Total				<u>131</u>

**Cantilever and Buttress Packs**

2.5m DOUBLE WIDTH CANTILEVER - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	DWCF	ET DW Cantilever Frame	8.8	17.6
6	KSSC	ET Swivel Couplers	1	6
1	CRP2	2.5m Cantilever In-fill board	9.6	9.6
2	BKH2	2.5m Horizontal Brace	2.24	4.48
2	PKP2	2.5m Plain Platform	16.88	33.76
4	RTBC	Red Plastic Toe-Board Clip	0.02	0.08
1	CAT2	2.5m Cantilever DW Side On Toeboard Assembly	12.5	12.5
				<u>84</u>

2.5m DOUBLE WIDTH BUTTRESS - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
4	KSSC	ET Swivel Couplers	1	4
2	FKD3	ET 3 Rung DW Plain Frame	6.77	13.54
2	BKH2	2.5m Horizontal Brace	2.24	4.48
2	PKP2	2.5m Plain Platform	16.88	33.76
2	K5CR	5" Castor	3.23	6.46
2	KALA	Leg Assembly	0.98	1.96
1	BKD2	2.5m Diagonal Brace	2.35	2.35
				<u>66.55</u>
				<u>151</u>

**Cantilever and Buttress Packs**

3.0m DOUBLE WIDTH CANTILEVER - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	DWCF	ET DW Cantilever Frame	8.8	17.6
6	KSSC	ET Swivel Couplers	1	6
1	CRP3	3.0m Cantilever In-fill board	10.2	10.2
2	BKH3	3.0m Horizontal Brace	2.55	5.1
2	PKP3	3.0m Plain Platform	20.29	40.58
4	RTBC	Red Plastic Toe-Board Clip	0.02	0.08
1	CAT3	3.0m Cantilever DW Side On Toeboard Assembly	15.5	15.5
				<u>95</u>

3.0m DOUBLE WIDTH BUTTRESS - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
4	KSSC	ET Swivel Couplers	1	4
2	FKD3	ET 3 Rung DW Plain Frame	6.77	13.54
2	BKH3	3.0m Horizontal Brace	2.55	5.1
2	PKP3	3.0m Plain Platform	20.29	40.58
2	K5CR	5" Castor	3.23	6.46
2	KALA	Leg Assembly	0.98	1.96
1	BKD3	3.0m Diagonal Brace	2.65	2.65
				<u>74.29</u>
				<u>169</u>

2m SINGLE WIDTH CANTILEVER- SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	SWCF	ET SW Cantilever Frame	5.5	11
6	KSSC	ET Swivel Couplers	1	6
1	CRP1	2m Cantilever In-fill board	9	9
2	BKH1	2m Horizontal Brace	1.93	3.86
1	PKP1	2m Plain Platform	13.22	13.22
4	RTBC	Red Plastic Toe-Board Clip	0.02	0.08
1	CAT1/S	2m Cantilever SW Side On Toeboard Assembly	7.5	7.5

\* For buttress see 2m Double Width kit

50.66  
Total **109**

2.5m SINGLE WIDTH CANTILEVER- SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	SWCF	ET SW Cantilever Frame	5.5	11
6	KSSC	ET Swivel Couplers	1	6
1	CRP2	2.5m Cantilever In-fill board	9.6	9.6
2	BKH2	2.5m Horizontal Brace	1.93	4.48
1	PKP2	2.5m Plain Platform	16.88	16.88
4	RTBC	Red Plastic Toe-Board Clip	0.02	0.08
1	CAT2/S	2.5m Cantilever SW Side On Toeboard Assembly	7.5	7.5

\* For buttress see 2.5m Double Width kit

55.54  
Total **122**

3m SINGLE WIDTH CANTILEVER - SIDE CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	SWCF	ET SW Cantilever Frame	5.5	11
6	KSSC	ET Swivel Couplers	1	6
1	CRP3	3m Cantilever Rigger Platform	10.2	10.2
2	BKH3	3m Horizontal Brace	2.55	5.1
1	PKP3	3m Plain Platform	20.29	20.29
4	RTBC	Red Plastic Toe-Board Clip	0.02	0.08
1	CAT/3	3m Cantilever SW Side On Toeboard Assembly	15.5	15.5

\* For buttress see 3.0m Double Width kit

68.17  
Total **142**

### Cantilever and Buttress Pack End On

DOUBLE WIDTH CANTILEVER - END CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	DWCF	ET DW Cantilever Frame	8.8	17.6
10	KSSC	ET Swivel Couplers	1	10
1	CIPD	ET DW In-fill board	2.5	2.5
2	FKD3	ET 3 Rung DW Plain Frame	6.77	13.54
6	BKH4	4ft Horizontal Brace	1.8	10.8
4	PKP4	4ft Plain Platform	9	36
2	K5CR	5" Castor	3.23	6.46
2	KALA	Leg Assembly	0.98	1.96
1	BKD4	4ft Diagonal Brace	2	2
8	RTBC	Red Plastic Toe-Board Clip	0.02	0.16
1	CET1**	4ft x 2m Cantilever End Toeboard Assembly	13	13
1	CET2**	4ft x 2.5m Cantilever End Toeboard Assembly	14.6	14.6
1	CET3**	4ft x 3m Cantilever End Toeboard Assembly	16	16

101.02

\*\* These are optional depending on size.

### Cantilever and Buttress Pack End On

SINGLE WIDTH CANTILEVER - END CONFIGURATION				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
2	DWCF	ET SW Cantilever Frame	8.8	17.6
10	KSSC	ET Swivel Couplers	1	10
1	CIPD	ET SW In-fill board	2.5	2.5
2	FKD3	ET 3 Rung DW Plain Frame	6.77	13.54
6	BKH4	4ft Horizontal Brace	1.8	10.8
3	PKP4	4ft Plain Platform	9	27
2	K5CR	5" Castor	3.23	6.46
2	KALA	Leg Assembly	0.98	1.96
1	BKD4	4ft Diagonal Brace	2	2
8	RTBC	Red Plastic Toe-Board Clip	0.02	0.16
1	CET1**	4ft x 2m Cantilever End Toeboard Assembly	13	13
1	CET2**	4ft x 2.5m Cantilever End Toeboard Assembly	14.6	14.6
1	CET3**	4ft x 3m Cantilever End Toeboard Assembly	16	16

92.02

\*\* These are optional depending on size.

GATE FRAME OPTIONS				
QTY	PART	DESCRIPTION	WEIGHT (Kg)	
1	FGD/3	3 Rung DW Gate Frame	8.8	8.8
1	FGD/4	4 Rung DW Gate Frame	12	12