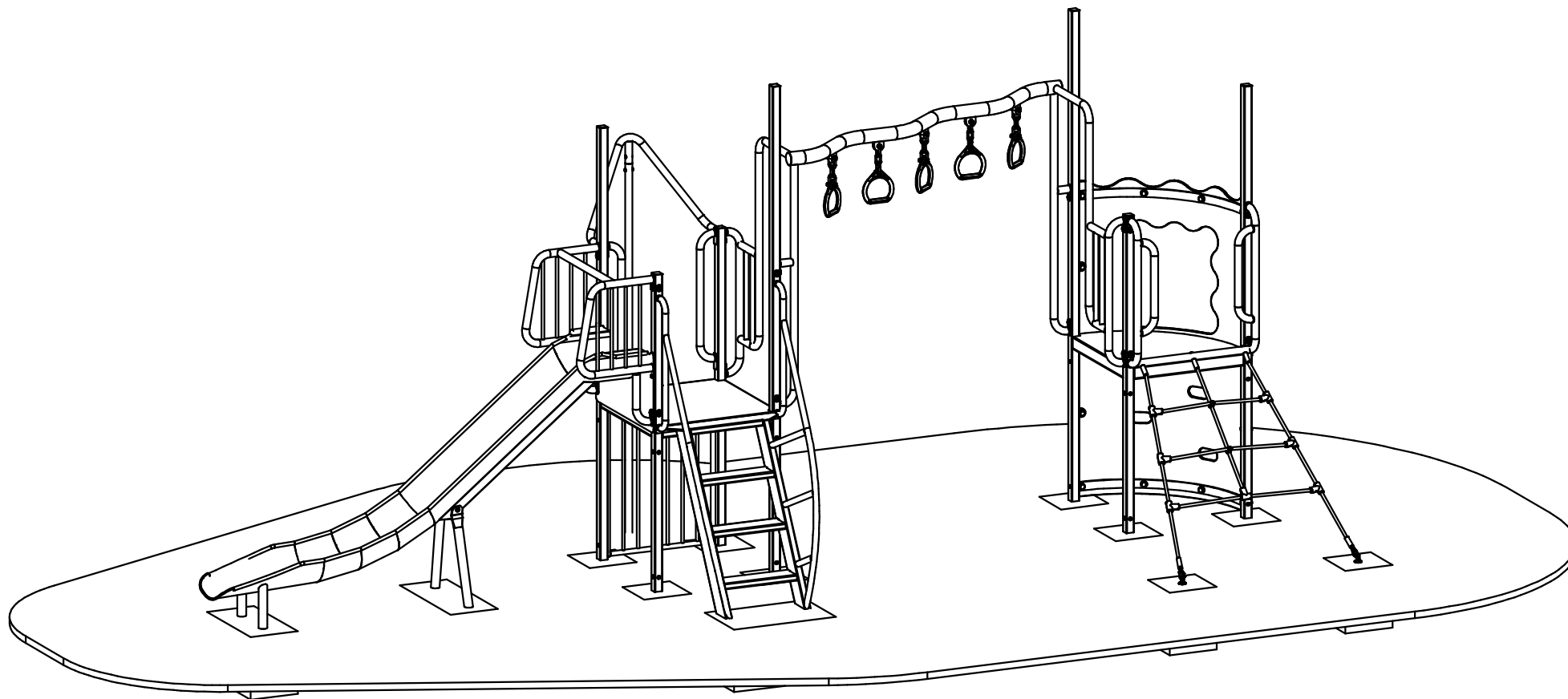


CUSTOMER: 901-KIMA Kima

ORDER No:

FIXING: Ground



Complied by

AB

Date

01/05/12

ISSUE
ECN
DATE
SIGN

0

1655

01/05/12

AB

1

Minor

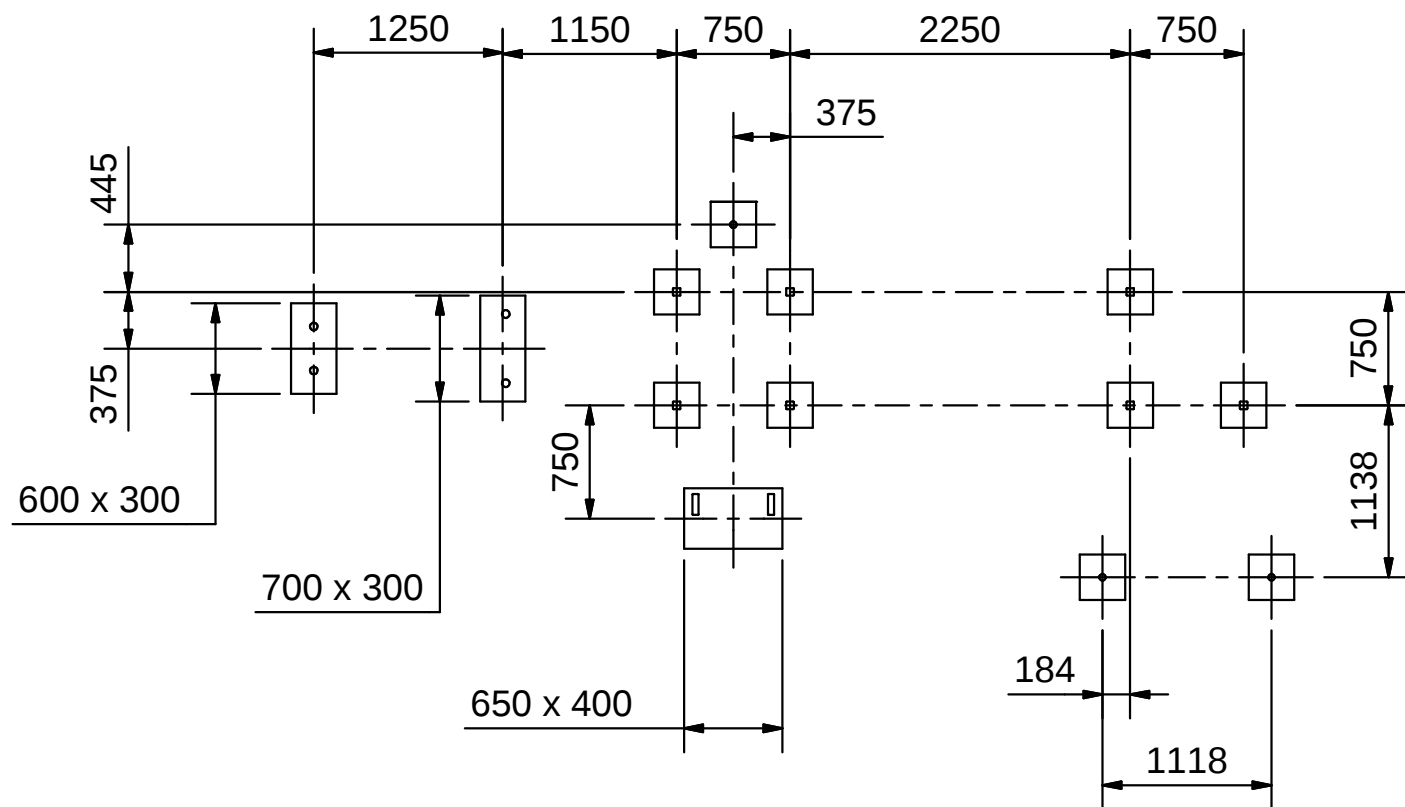
30/10/13

DB

CUSTOMER: 901-KIMA Kima

ORDER No:

FIXING: Ground



All foundations are 300 x 300
unless otherwise stated

All foundations are 375 deep
unless otherwise stated



Complied by

AB

Date

01/05/12

ISSUE

0

ECN

1655

DATE

01/05/12

SIGN

AB

1

Minor

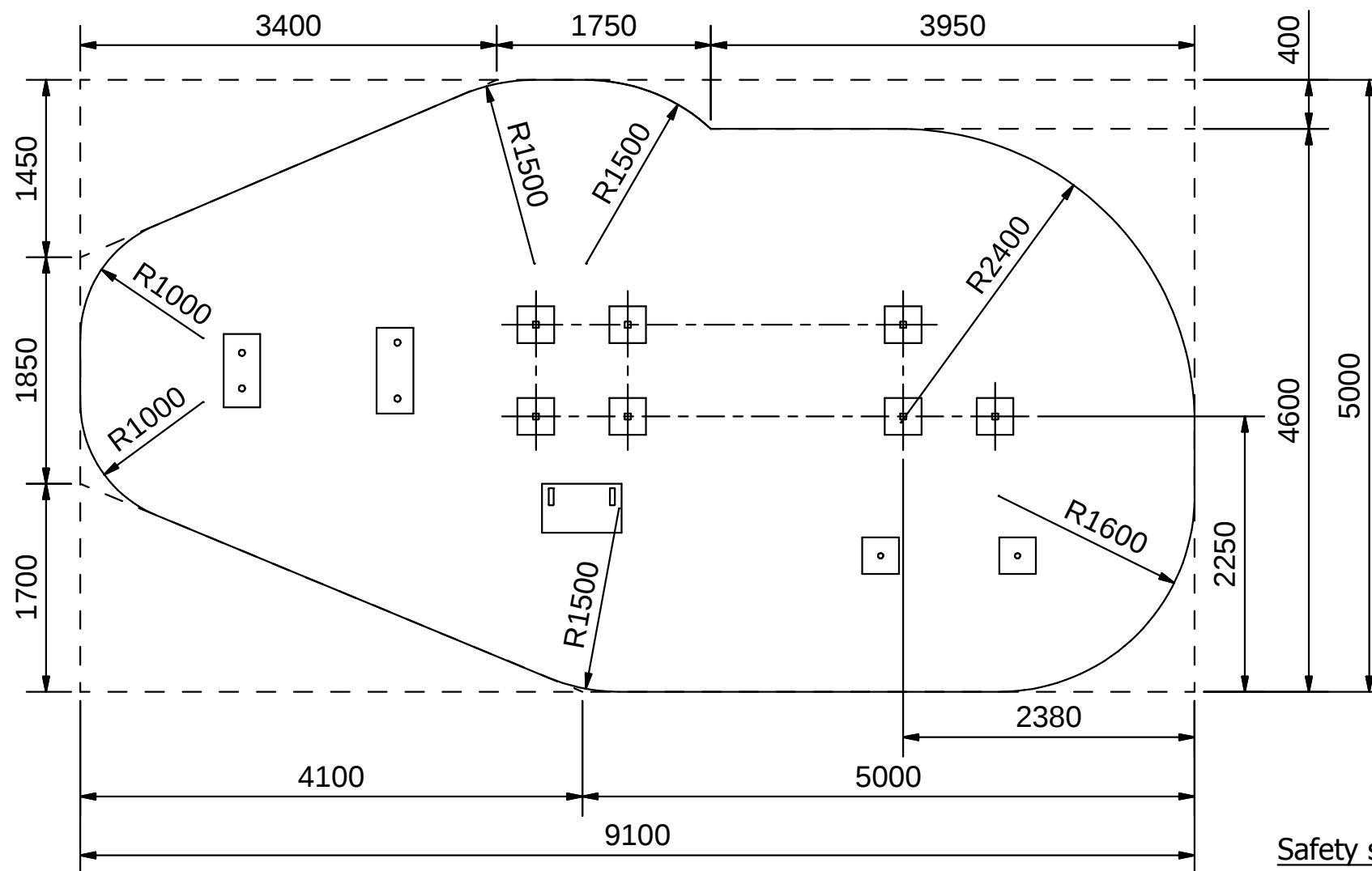
30/10/13

DB

CUSTOMER: 901-KIMA Kima

ORDER No:

FIXING: Ground



Safety surfacing
36m² of 40mm wetpour
with 23.5m edging



Complied by

AB

Date

01/05/12

ISSUE

0

ECN

1655

DATE

01/05/12

SIGN

AB

1

Minor

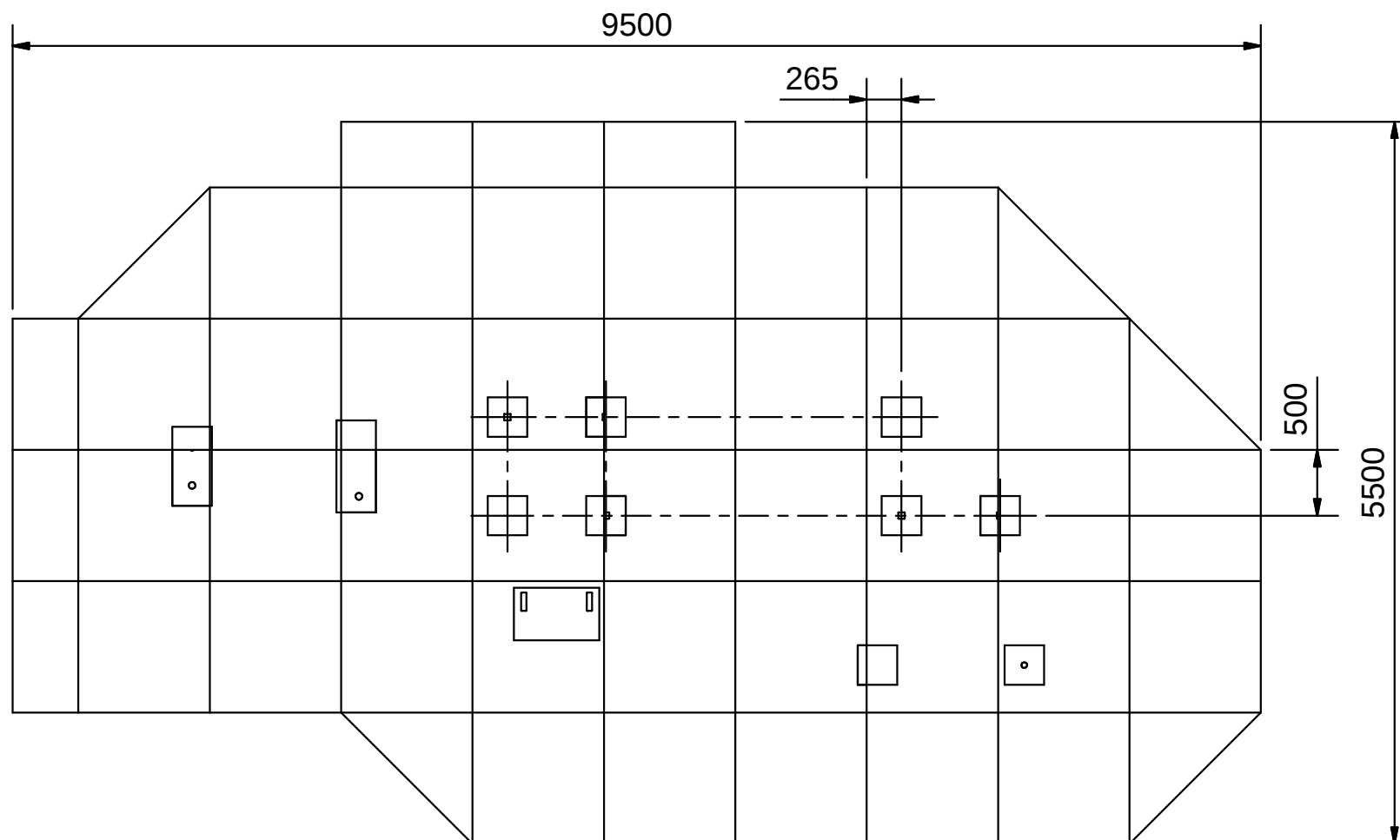
30/10/13

DB

CUSTOMER: 901-KIMA Kima

ORDER No:

FIXING: Ground



Safety surfacing
 42.5m² of 33mm tiles
 with 27.5m edging



Complied by

AB

Date

01/05/12

ISSUE

0

ECN

1655

DATE

01/05/12

SIGN

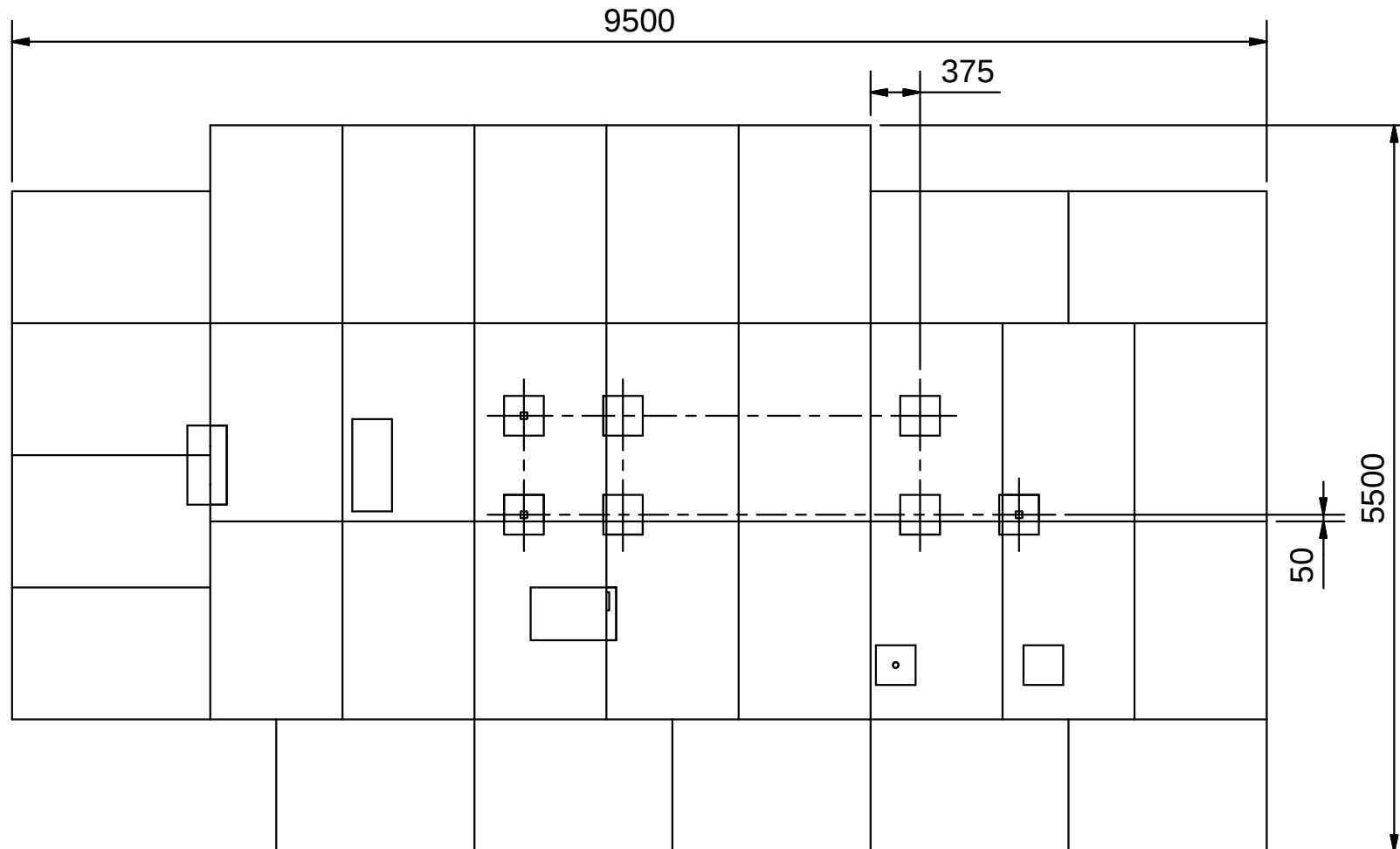
AB

1

Minor

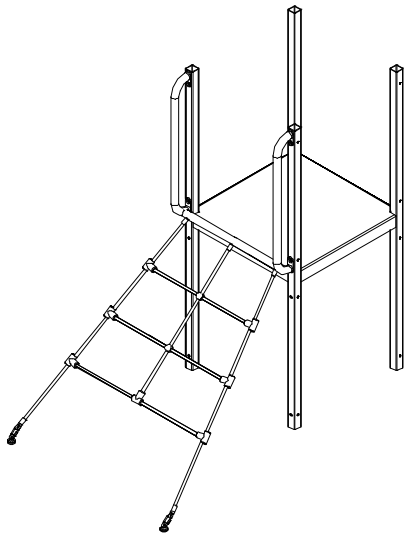
30/10/13

DB



Safety surfacing
32 grassmats (1m x 1.5m)

	Complied by	AB	ISSUE	0	1								
			ECN	1655	Minor								
	Date	01/05/12	DATE	01/05/12	30/10/13								
			SIGN	AB	DB								



DELIVERY LIST		
Part No.	Description	Qty
90104-03	Net Hand Hold Assembly	1
90104-02	Scramble Net Assembly	1
5071-024	Below Ground Fixing	2
3031-010	Spragging Iron	2
-	Fixings Pack	1

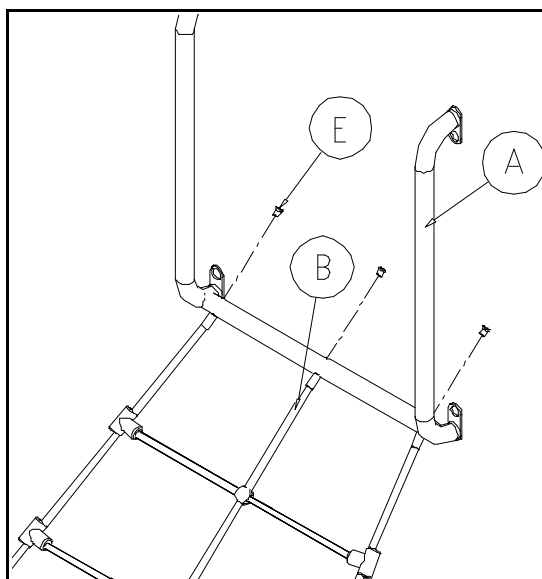
TROPICA	
SCRAMBLE NET	
PROD CODE:	90104
PROD CODE BARK:	90404
SIZE:	1155 x 1185 x 1896 mm
AGE RANGE:	UP TO 8 YEARS
FREE FALL HEIGHT:	990 mm
WEIGHT OF HEAVIEST PART	9 Kg
OVERALL WEIGHT OF UNIT	26 Kg

SPECIFICATION

Handhold: Made from 32 Nominal bore tube to BS 1387 and Mild Steel Plate to BS 9070 Part 1.
 Net: Made from 16 mm wire core nylon rope.
 Welds: Copper free wire conforming to BS 2901 AIB for mild steel.
 Finish: Low lead polyester powder paint to BS EN71 Part 3.
 Fastenings: Anti-vandal and plated for weather protection.

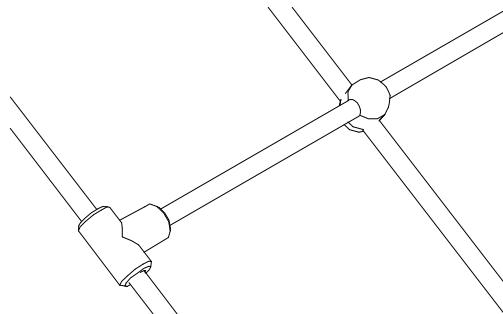
INSTALLATION INSTRUCTIONS

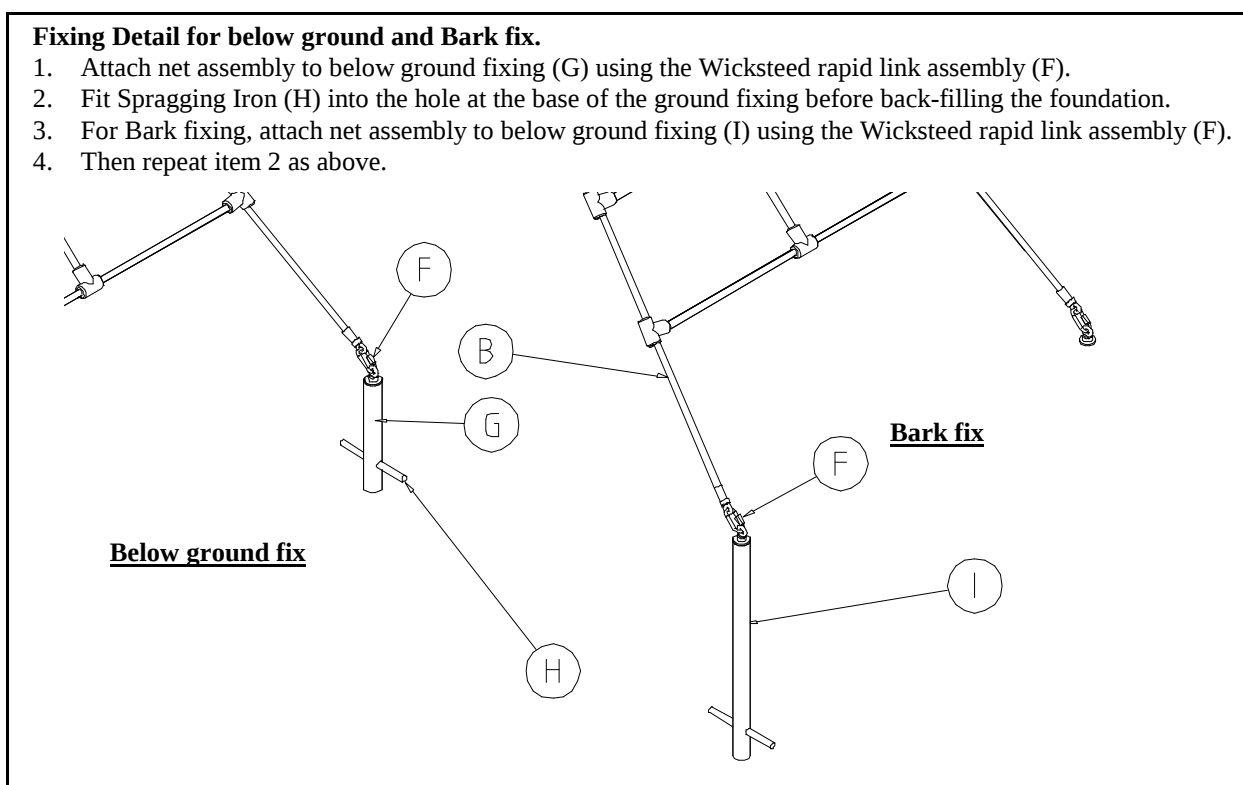
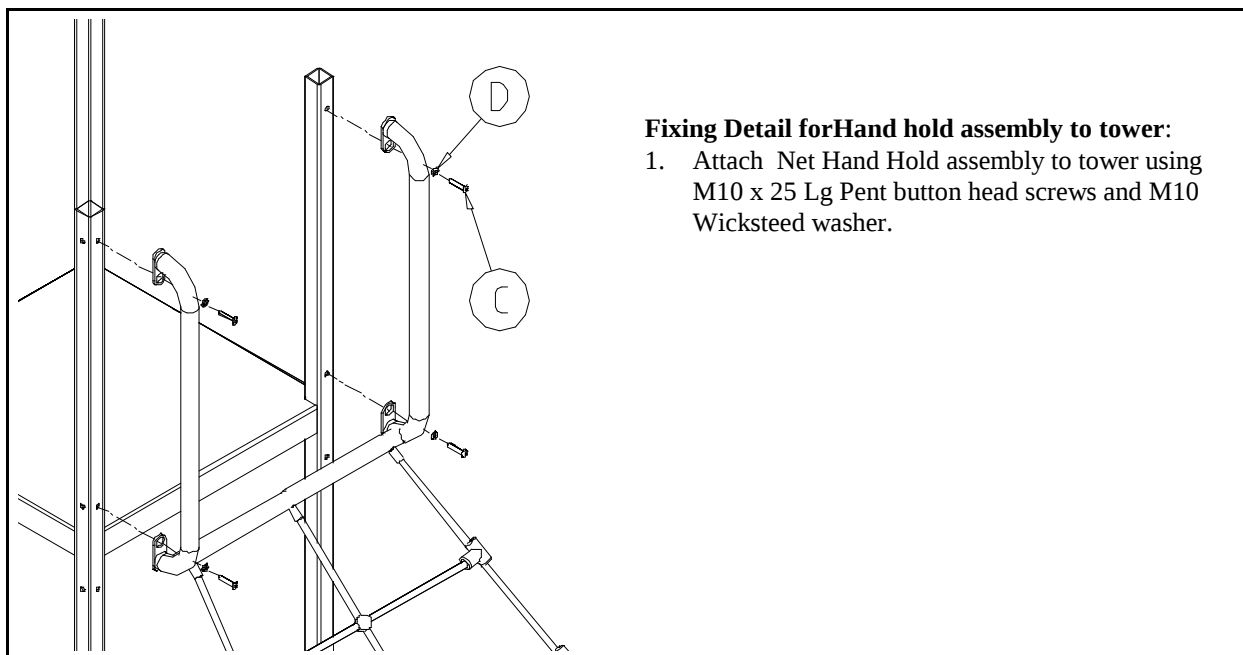
- 1 Read installation instructions through before commencing erection of unit.
- 2 Do NOT tighten fastenings until the unit is completely assembled



NET FIXING DIAGRAM

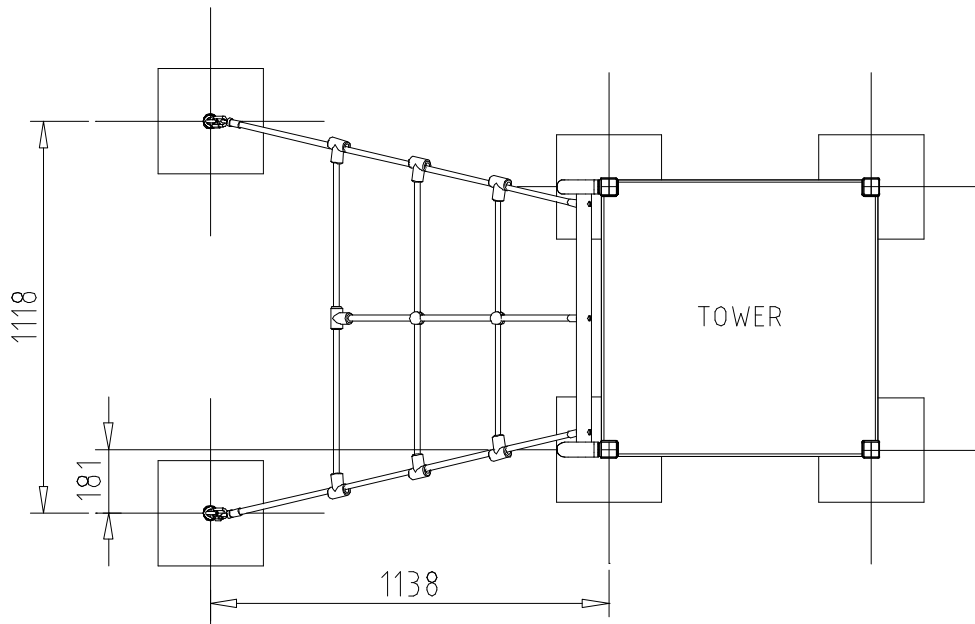
1. Attach scramble net to bar of the hand hold assembly, using the M10 safety fasteners.
2. Net must be fitted in the correct orientation - hand and footholds must rest on top of the longitudinal support ropes.



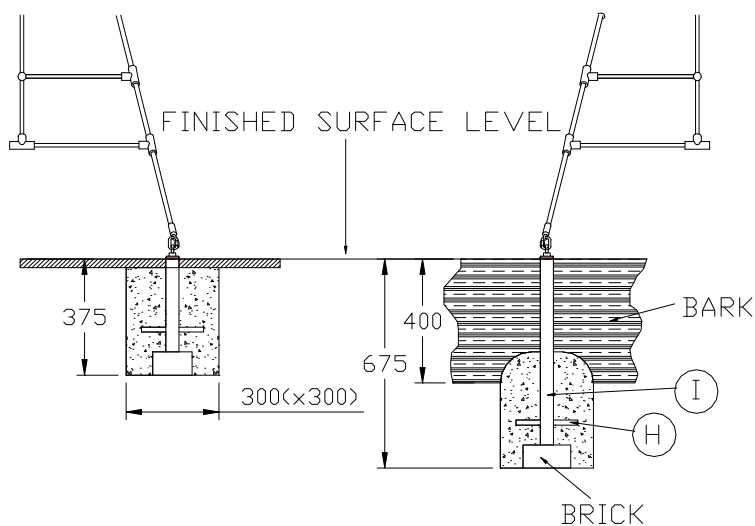


Note: All protruding screw threads to be peened over to remove sharp edges.

FOUNDATION DETAIL
(Care must be taken under abnormal conditions)

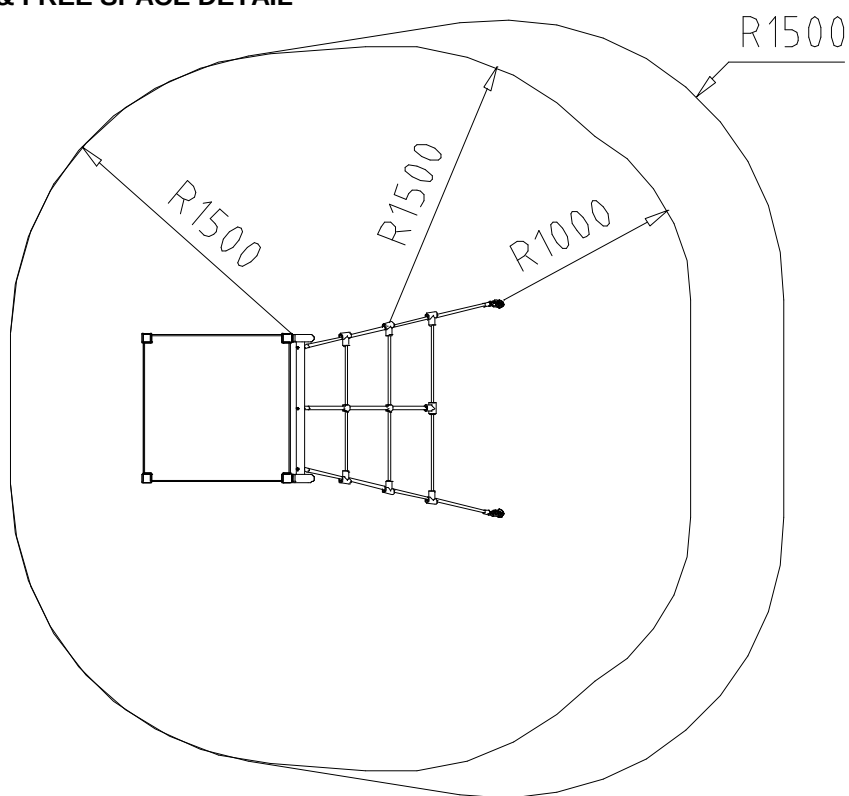


Foundation Detail:
Ground and Bark fixed details shown.



NOTE: ENSURE CONCRETE FOR BARK FIXING IS ROUNDED OFF AS SHOWN IN THE DIAGRAM

SURFACING & FREE SPACE DETAIL



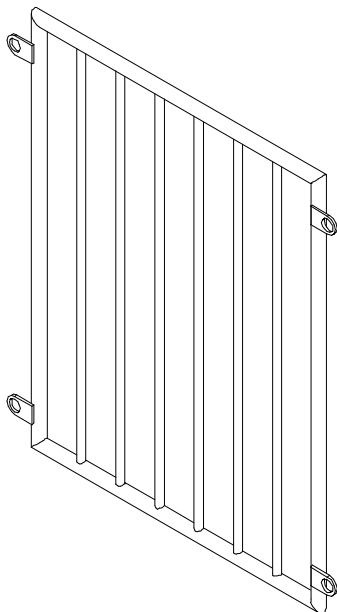
Note:-Ensure all installation aids are removed before first use.

REF	QTY	DESCRIPTION	PART No
A	1	Net Hand Hold Assembly	90104-03
B	1	Scramble Net	90104-02
C	4	M10 x 25 Lg Pent button head screw	2176-126
D	4	Wicksteed Washer	2215-519
E	3	M10 Safety fastener	2177-002
F	2	Wicksteed Rapid Link	4061-125
G	2	Below ground fixing	5071-024
H	2	Spragging iron	3031-010
For Bark fix replace item G with item I			
I	2	Bark below ground fixing	5071-026

Note:-All spare parts are available from Wicksteed Leisure on request.

For maintenance instructions see separate sheet.

	COMPILED:	APPROVED :	REV	NEW	1	2	3	
	MH		ECN	1396	minor	1469	minor	
	DATE:	DATE:	SIG.	MH	PK	SB	SB	
	30/10/01		DATE.	30/10/01	06/03/03	15/04/04	22/07/05	



TROPICA

METAL BARRIER

PROD CODE:	90122
SIZE:	788 x 28 x 910 mm
AGE RANGE:	UP TO 8 YEARS
WEIGHT OF HEAVIEST PART	15 Kg
OVERALL WEIGHT OF UNIT	15 Kg

DELIVERY LIST

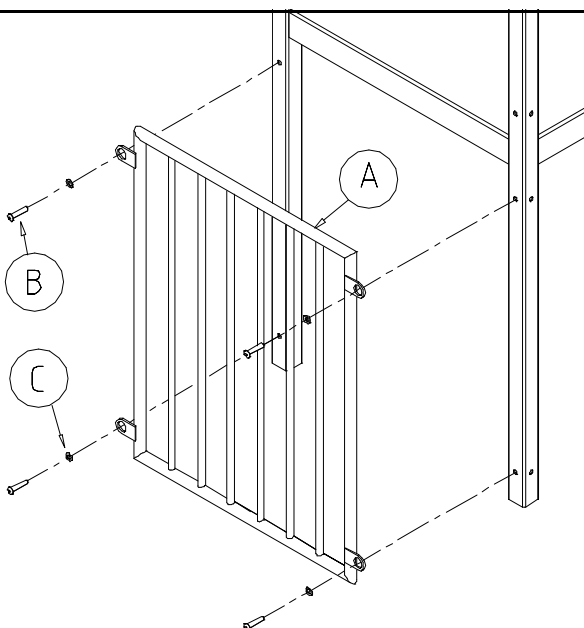
Part No.	Description	Qty
90122-01	Metal Barrier Assembly	1
-	Fixings Pack	1

SPECIFICATION

Barrier:	Made from 20 mm Nominal Bore Tube, medium gauge to BS 1387, infills are 16Ø mm mild steel bar.
Fasteners:	Non standard anti-vandal, plated for weather protection.
Finish:	Low Lead Polyester powder paint to BS EN71 Pt. 3.
Welds:	Copper free wire diameter 1 mm conforming to 2091 AIB for Mild Steel.

INSTALLATION INSTRUCTIONS

- 1 Read installation instructions through before commencing erection of unit.
- 2 Do NOT tighten fastenings until the unit is completely assembled



Fixing detail to tower:

1. Attach (A) Metal barrier to tower using (B) M10 x 25 lg Pent button head screws and (C) M10 Wicksteed washers.

Note:-Ensure all installation aids are removed before first use.

Note: M8 bolts to be torqued to 18 Nm (13lbft.).
M10 bolts to be torqued to 34 Nm (25lbft)
M12 bolts to be torqued to 55 Nm (40lbft).
All protruding screw threads to be peened over to remove sharp edges.

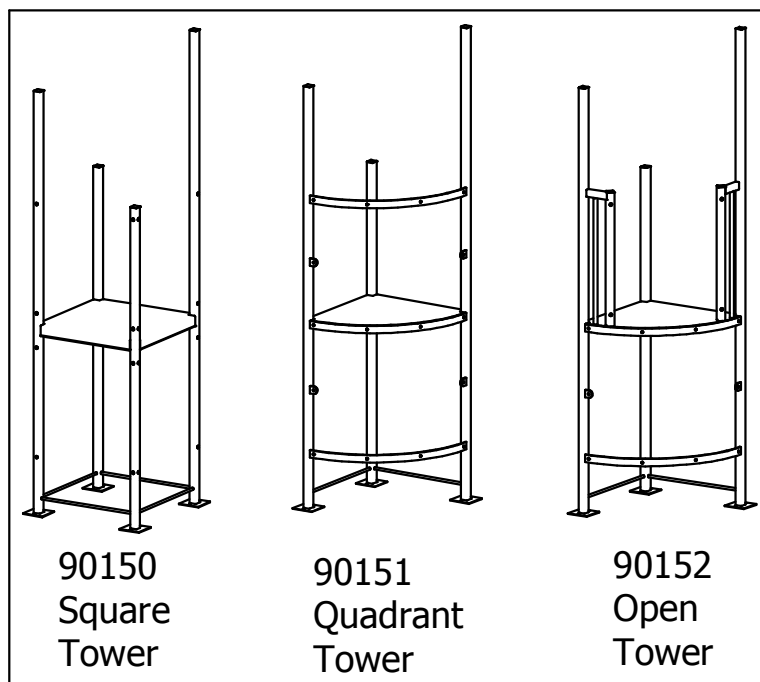
REF	QTY	DESCRIPTION	PART No
A	1	Metal Barrier assembly	90122-01
B	4	M10 x 25 lg Pent button head screws	2176-126
C	4	Wicksteed Washer	2215-519

Note:-All spare parts are available from Wicksteed Leisure on request.

For maintenance instructions see separate sheet.

	COMPILED:	APPROVED :	REV	NEW				
	MH		ECN	1396				
	DATE:	DATE:	SIG.	MH				
	2/11/01		DATE.	2/11/01				





Planet Jungle	
Single Towers	
PROD. CODE	90150/90151/90152
SIZE	0.8 x 0.8 x 3.25
AGE RANGE	
F/ FALL HEIGHT	990mm
HEAVIEST PART	
TOTAL WEIGHT	Approx 70 - 78 kg ea
	

SPECIFICATION

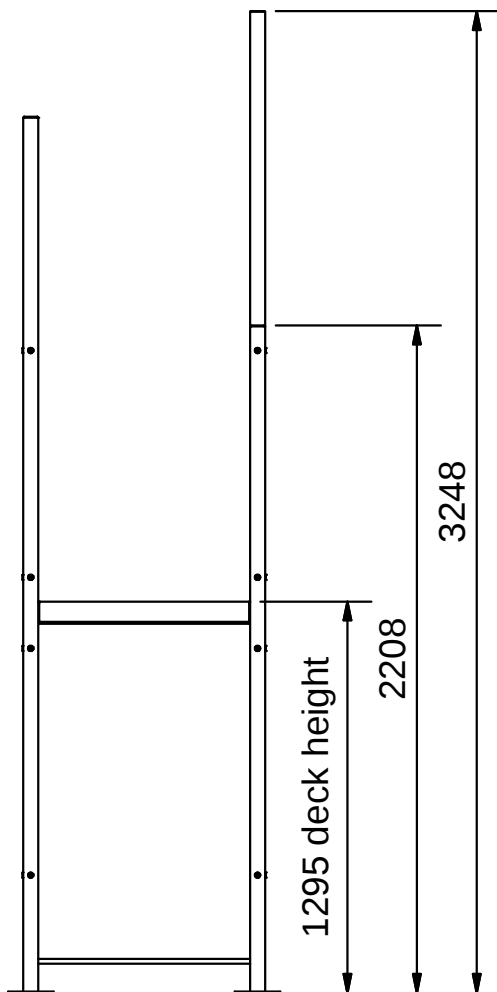
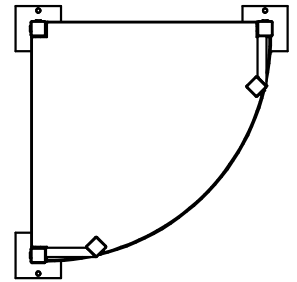
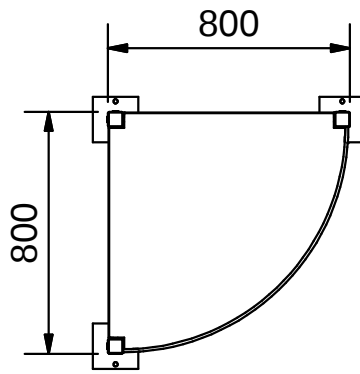
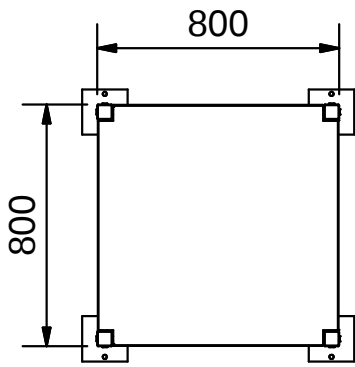
Solid steel to BS 970 part 1
 Steel RHS to BS 4848 part 2
 3mm Durbar chequer plate
 Welds are from copper-free wire to BS EN 440
 Low lead polyester powder paint to BS 71 part 3

INSTALLATION INSTRUCTIONS

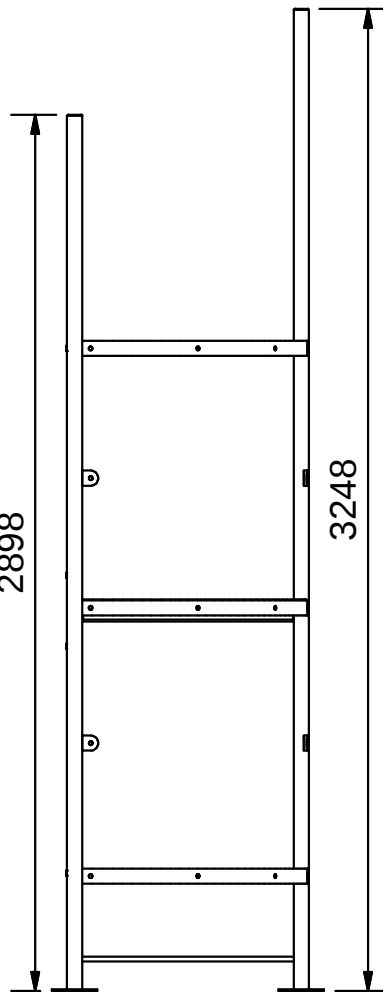
- 1 Read instructions thoroughly before commencing installation of unit
- 2 Excavate foundations as shown in the foundation plan
- 3 Position tower in the excavated foundations on a brick, ensuring it is plumb, square and at the correct height, orientation and distance
- 4 When unit is fully assembled and all fixings secure, back fill the foundations with concrete (4 parts gravel/2 parts sand/1 part cement) 0.095m² for towers with 3 legs, 0.125m² for towers with 4 legs
- 5 Allow concrete to set for 48 hours before first use

Note

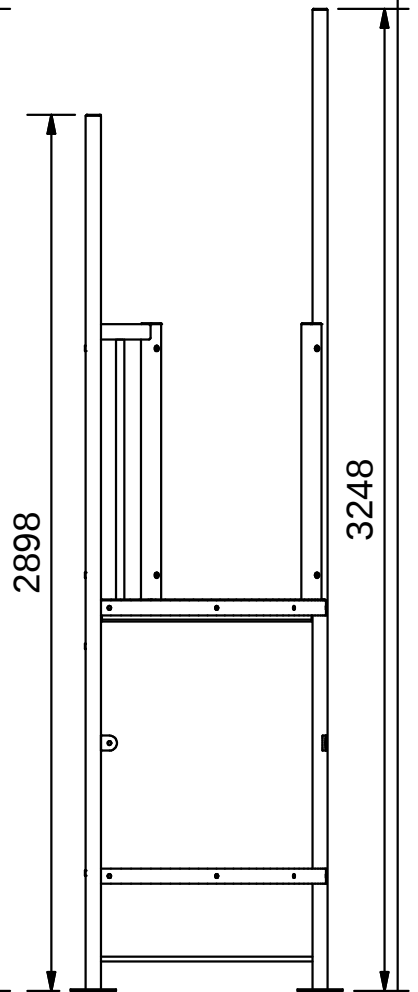
Note ENSURE ALL INSTALLATION AIDS ARE REMOVED BEFORE FIRST USE



90150
Square
Tower



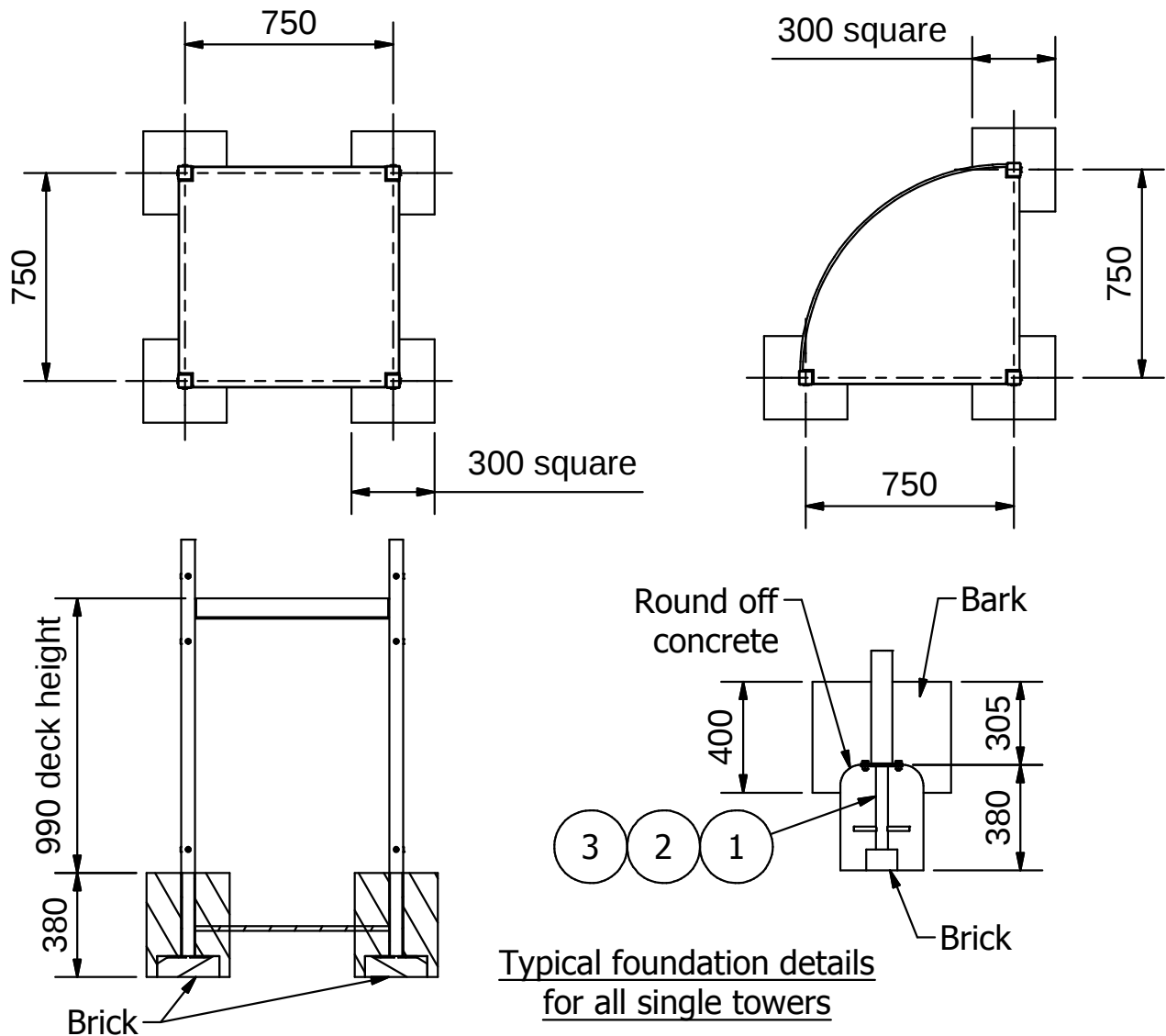
90151
Quadrant
Tower



90152
Open
Tower

Foundations

Care must be taken in abnormal conditions



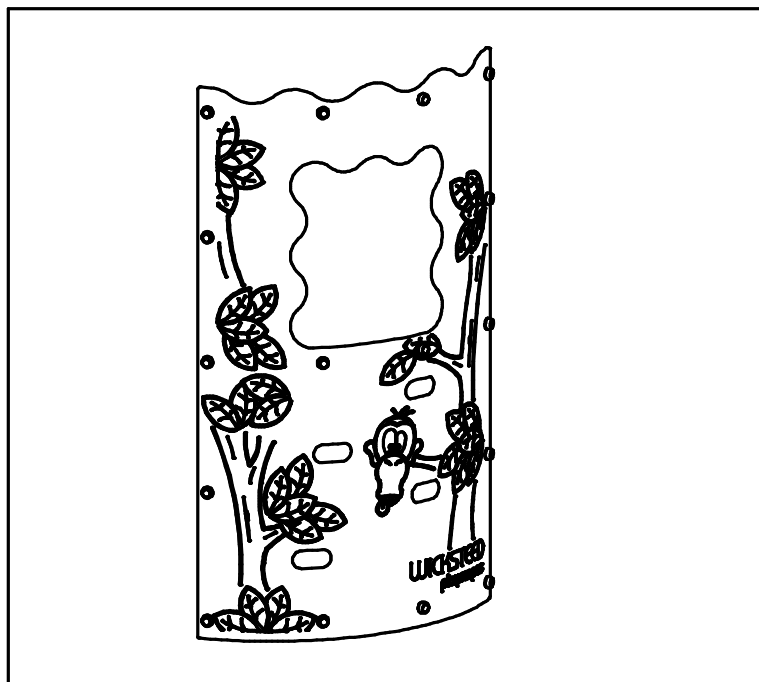
3 LEG TOWER - FOR BARK FIX ADD

ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	5071-003	BELOW GROUND ASSY
2	3	3031-010	SPRAGGING IRON
3	6	2175-134	M12 x 25 LG HEX HD SCREW

4 LEG TOWER - FOR BARK FIX ADD

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	5071-003	BELOW GROUND ASSY
2	4	3031-010	SPRAGGING IRON
3	8	2175-134	M12 x 25 LG HEX HD SCREW

COMPILED AB	REV	0	1							
	ECN	1655	Minor							
DATE: 23/04/12	SIG.	AB	DB							
	DATE:	23/04/12	30/10/13							



Planet Jungle	
Curved Climbing Wall	
PROD. CODE	90154
SIZE	1.09 x 0.24 x 1.89
AGE RANGE	6 to Adult
F/ FALL HEIGHT	1.01m
HEAVIEST PART	Approx 22.5 kg
TOTAL WEIGHT	Approx 23.5 kg
	

SPECIFICATION

15mm thick HDPE 100% recyclable

Standard fixings are made to either BS 3692 or BS 4190

Non-standard fixings are anti-vandal and corrosion resistant

INSTALLATION INSTRUCTIONS

- 1 Read instructions thoroughly before commencing installation of unit

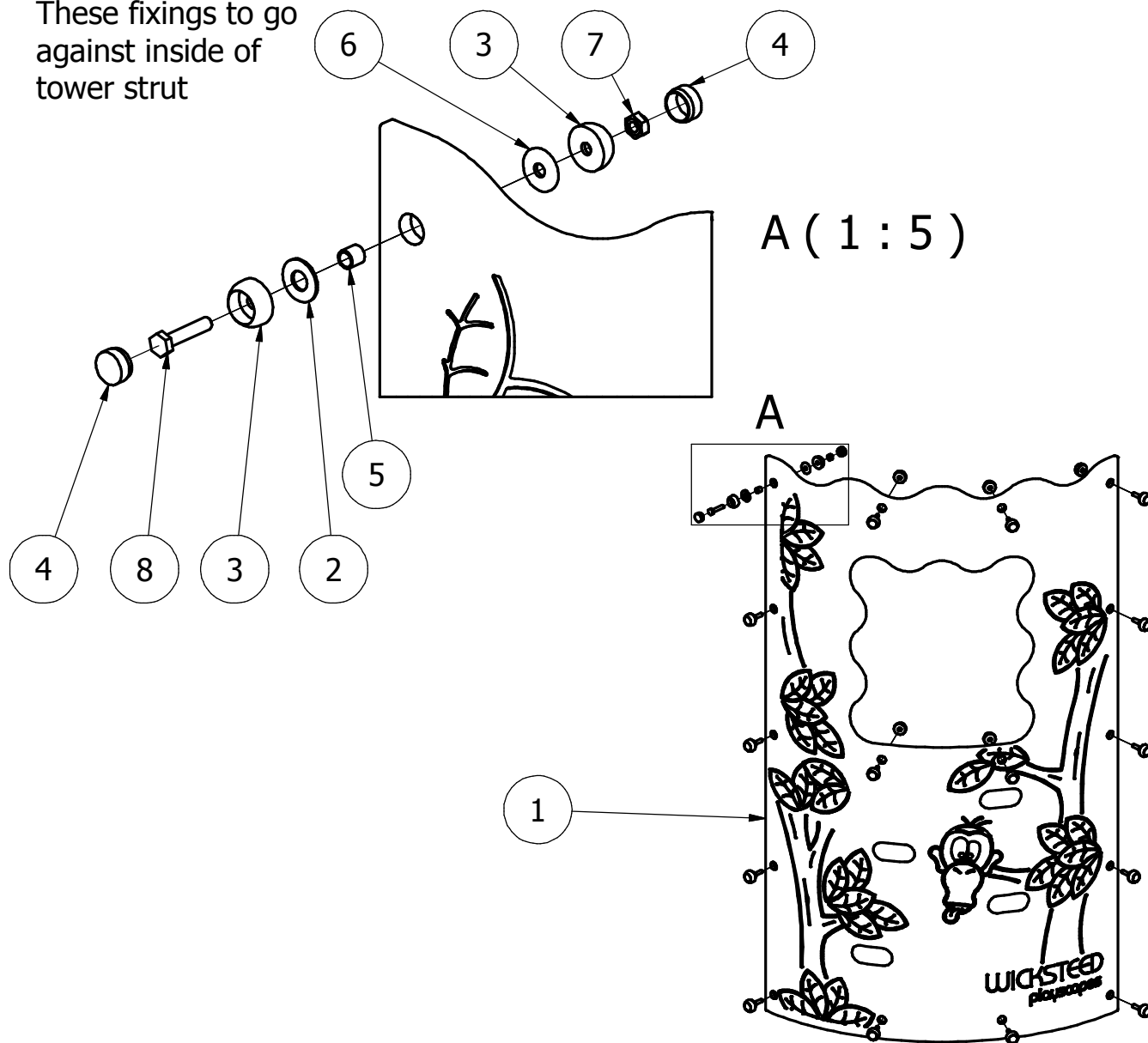
The climbing wall is overbent

- 2 To fit the panel position it against the tower and gently push in the centre, easing the panel over the struts and uprights as necessary
- 3 Fit the fixings down the middle of the panel
- 4 Fit the fixings down both sides

Note

Note ENSURE ALL INSTALLATION AIDS ARE REMOVED BEFORE FIRST USE

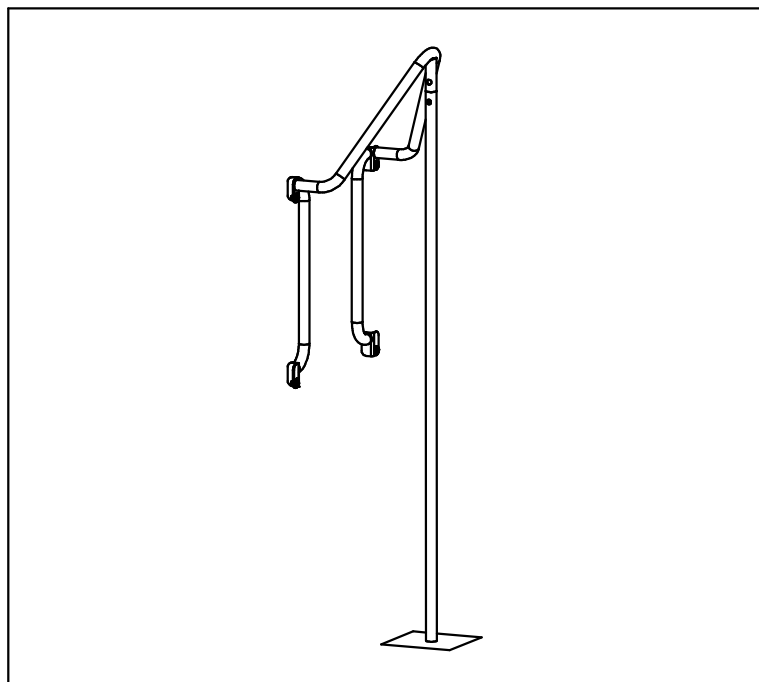
These fixings to go
against inside of
tower strut



PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	90154-01	CURVED CLIMBING PANEL
2	16	2900-041	FIXING WASHER
3	32	2611-031_Cup	Black Poepplemann Cup
4	32	2611-031_Cap	Black Poepplemann Cap
5	16	2472-009	FIXING SPACER (15 panel)
6	16	2215-519	Wicksteed Washer
7	16	2191-010	M10 Binx Nut
8	16	2185-038	M10 x 50 Hex Head Bolt

COMPILED AB	REV	0	1						
	ECN	1655	1672						
DATE: 24/04/12	SIG.	AB	AB						
	DATE:	24/04/12	03/12/12						



Planet Jungle	
Monkey Pole Slider	
PROD. CODE	90156
SIZE	0.8 x 0.45 x 2.37
AGE RANGE	Up to 8 years old
F/ FALL HEIGHT	990mm
HEAVIEST PART	Aprox 25.25 kg
TOTAL WEIGHT	Approx 25.5 kg
	

SPECIFICATION

Solid steel to BS 970 part 1

Steel nominal bore tube (medium) to BS 1387

Welds are from copper-free wire to BS EN 440

Low lead polyester powder paint to BS 71 part 3

Standard fixings are made to

BS 3692 or BS 4190

Non-standard fixings are anti-vandal

and corrosion resistant

INSTALLATION INSTRUCTIONS

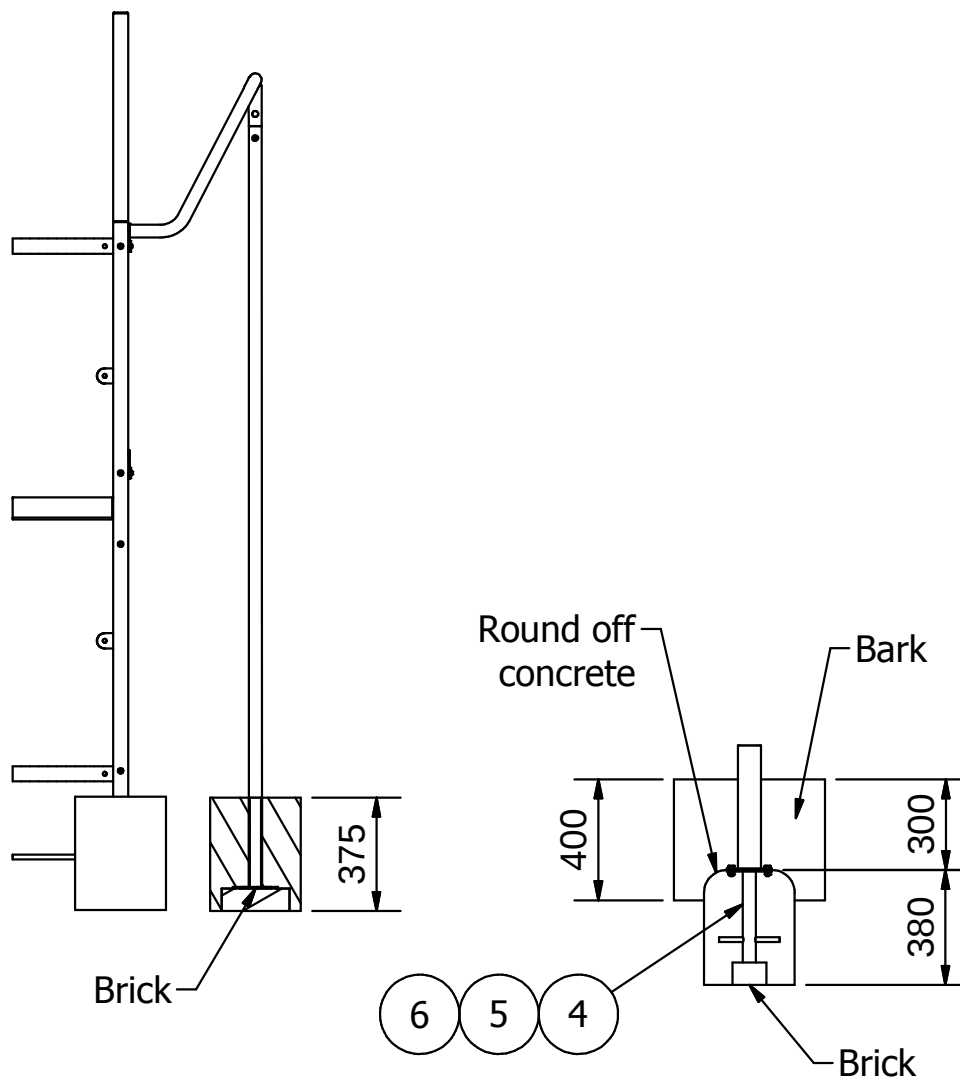
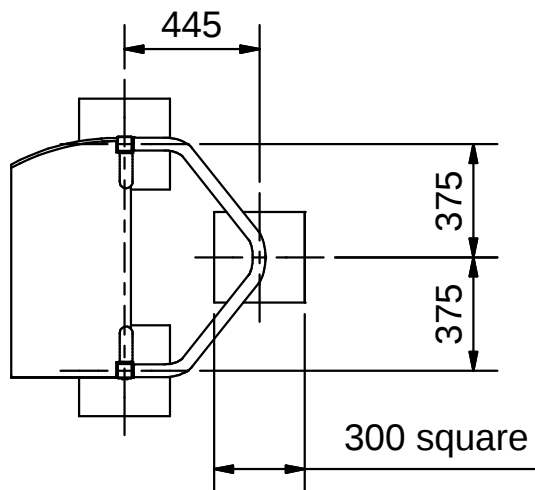
- 1 Read instructions thoroughly before commencing installation of unit
- 2 Excavate foundations as shown in the plan
- 3 Position pole slider on a brick in the excavated hole, ensuring it is plumb, square and at the correct height
- 4 Fix the pole slider to the tower as shown
- 5 When the unit is fully assembled and all fixings secure, backfill the foundation with 0.03m³ of concrete (4 parts gravel/2 parts sand/1 part cement)
- 6 Allow concrete to set for 48 hours before first use

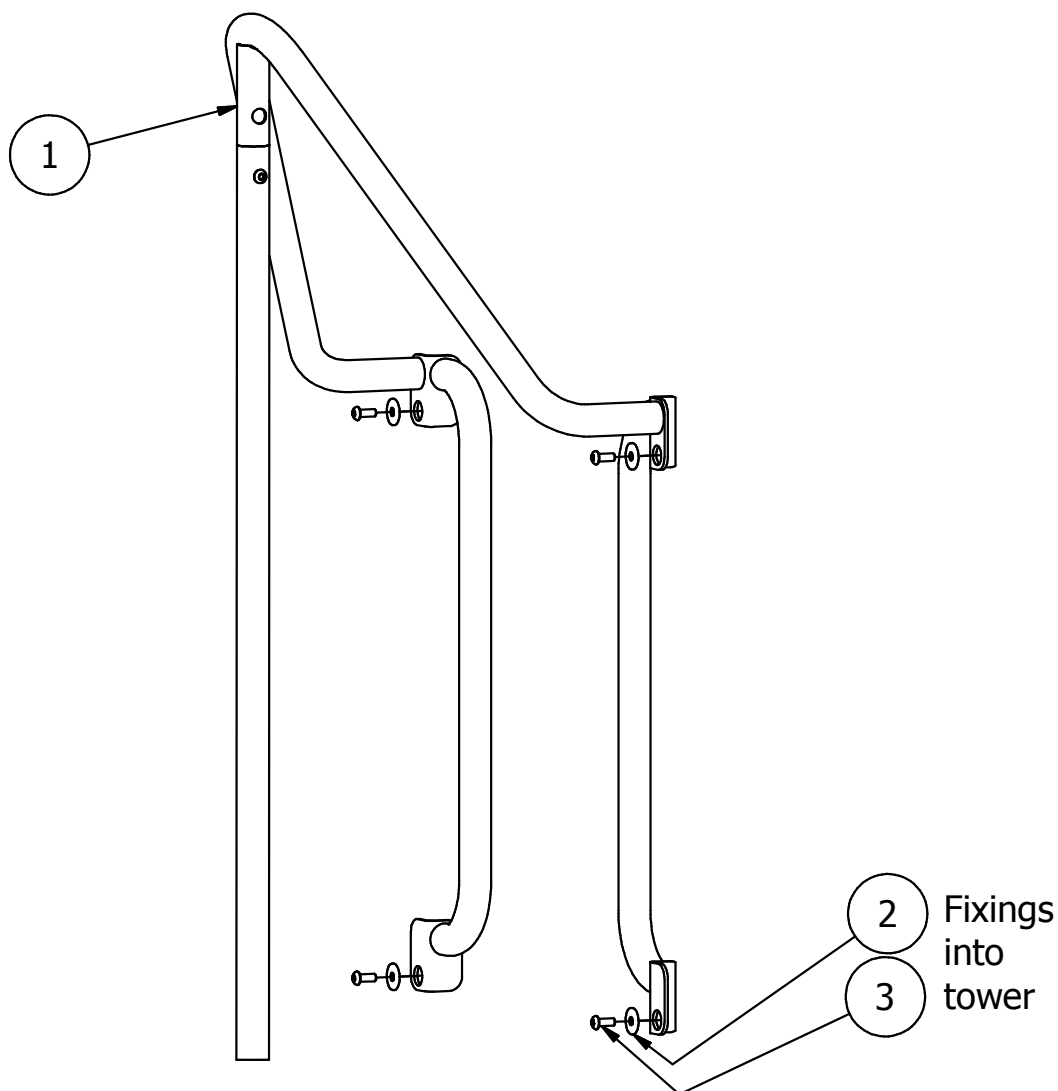
Note

Note ENSURE ALL INSTALLATION AIDS ARE REMOVED BEFORE FIRST USE

Foundations

Care must be taken in abnormal conditions





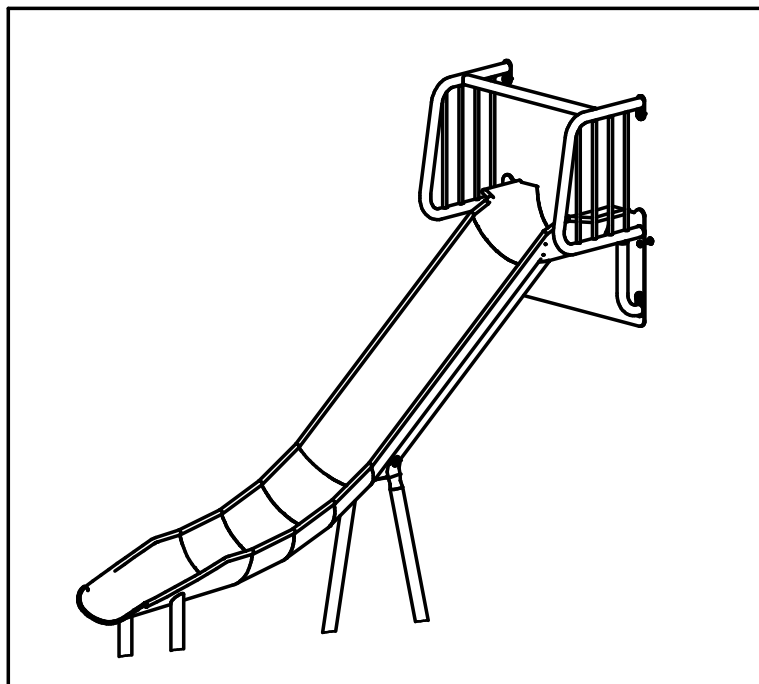
PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	90156-02	WELDED MONKEY POLE SLIDER
2	4	2215-519	Wicksteed Washer
3	4	2176-126	M10 x 25 Pent Button Head
5	1	4202-481	Sliding Pole Assy
6	1	2176-133	M10 x 40 Pent Button Head
7	1	2177-002	M10 Safety Fastener

FOR BARK FIX ADD

ITEM	QTY	PART NUMBER	DESCRIPTION
4	1	5071-003	BELOW GROUND ASSY
5	1	3031-010	SPRAGGING IRON
6	2	2175-134	M12 x 25 LG HEX HD SCREW

COMPILED AB	REV	0	1	2						
	ECN	1655	1707	Minor						
DATE: 24/04/12	SIG.	AB	AB	DB						
	DATE:	24/04/12	25/11/14	21/08/15						



PLanet Jungle

Low Slide

PROD. CODE	90159
SIZE	0.8 x 2.66 x 1.9
AGE RANGE	Up to 8 years old
F/ FALL HEIGHT	1.19m
HEAVIEST PART	Approx 57.5 kg
TOTAL WEIGHT	Approx 85.5 kg



SPECIFICATION

Solid steel to BS 970 part 1
 Steel nominal bore tube (medium) to BS 1387
 Stainless steel to BS 1449 part 2
 Welds are from copper-free wire to BS EN 440
 Low lead polyester powder paint to BS 71 part 3

Standard fixings are made to
 BS 3692 or BS 4190
 Non-standard fixings are anti-vandal
 and corrosion resistant

INSTALLATION INSTRUCTIONS

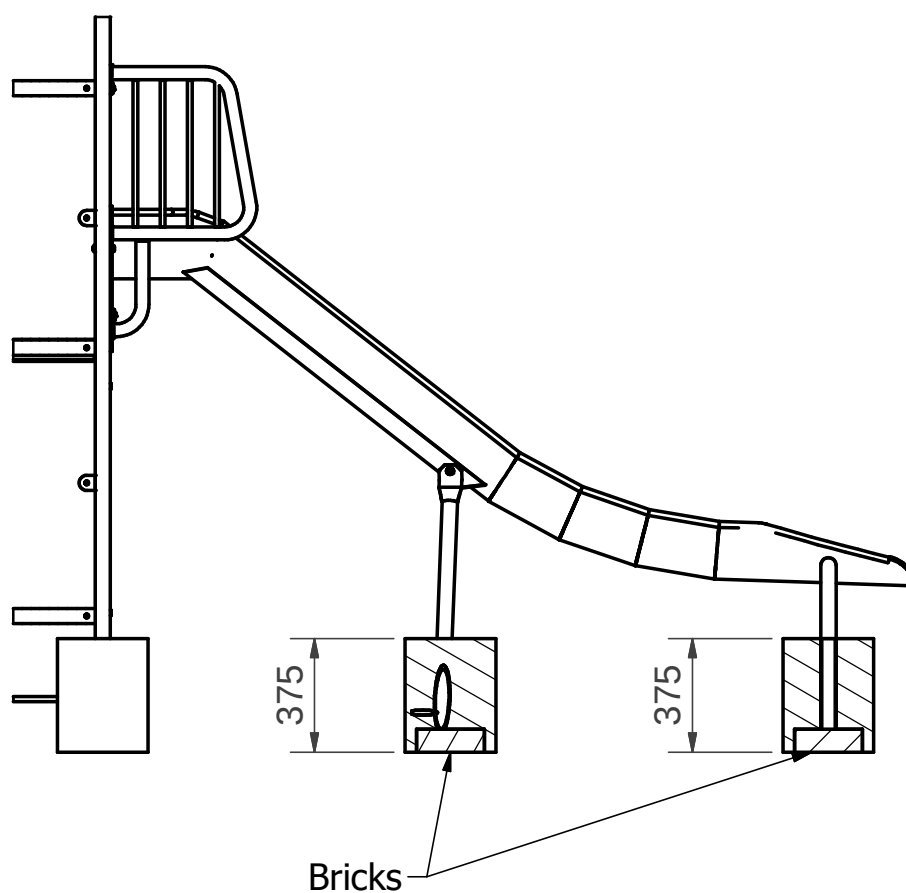
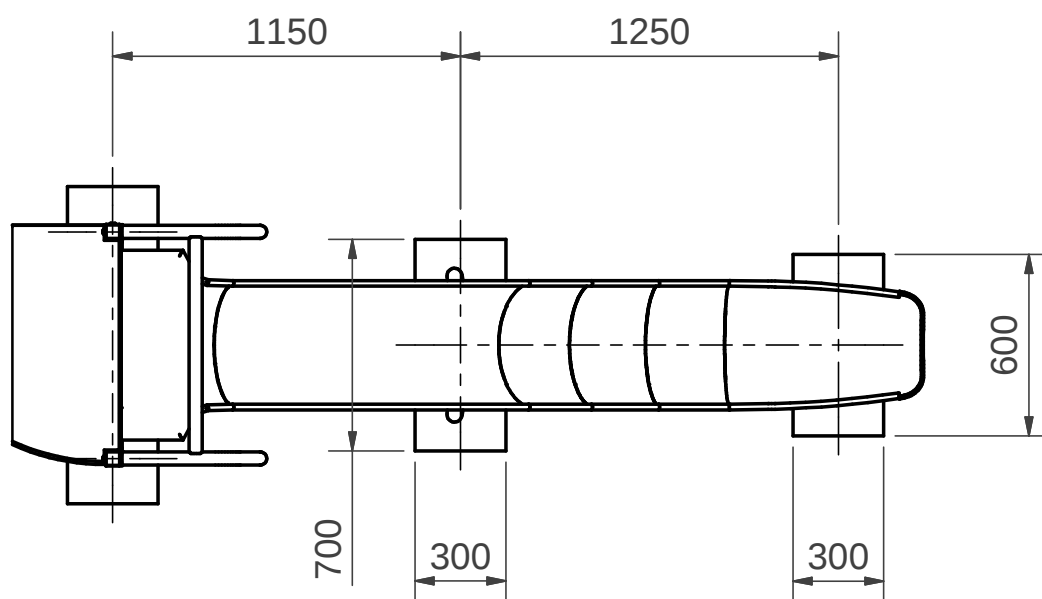
- 1 Read instructions thoroughly before commencing installation of unit
- 2 Excavate foundations as shown in the plan
- 3 Place lower end on bricks in the excavated hole
- 4 Position slide and slideguard against the tower, ensuring it is plumb, square and at the correct height
- 5 Fit the support legs, placing them on bricks in their excavated hole
- 6 When the unit is fully assembled and all fixings secure, backfill the foundation with 0.03m³ of concrete (4 parts gravel/2 parts sand/1 part cement)
- 7 Allow concrete to set for 48 hours before first use

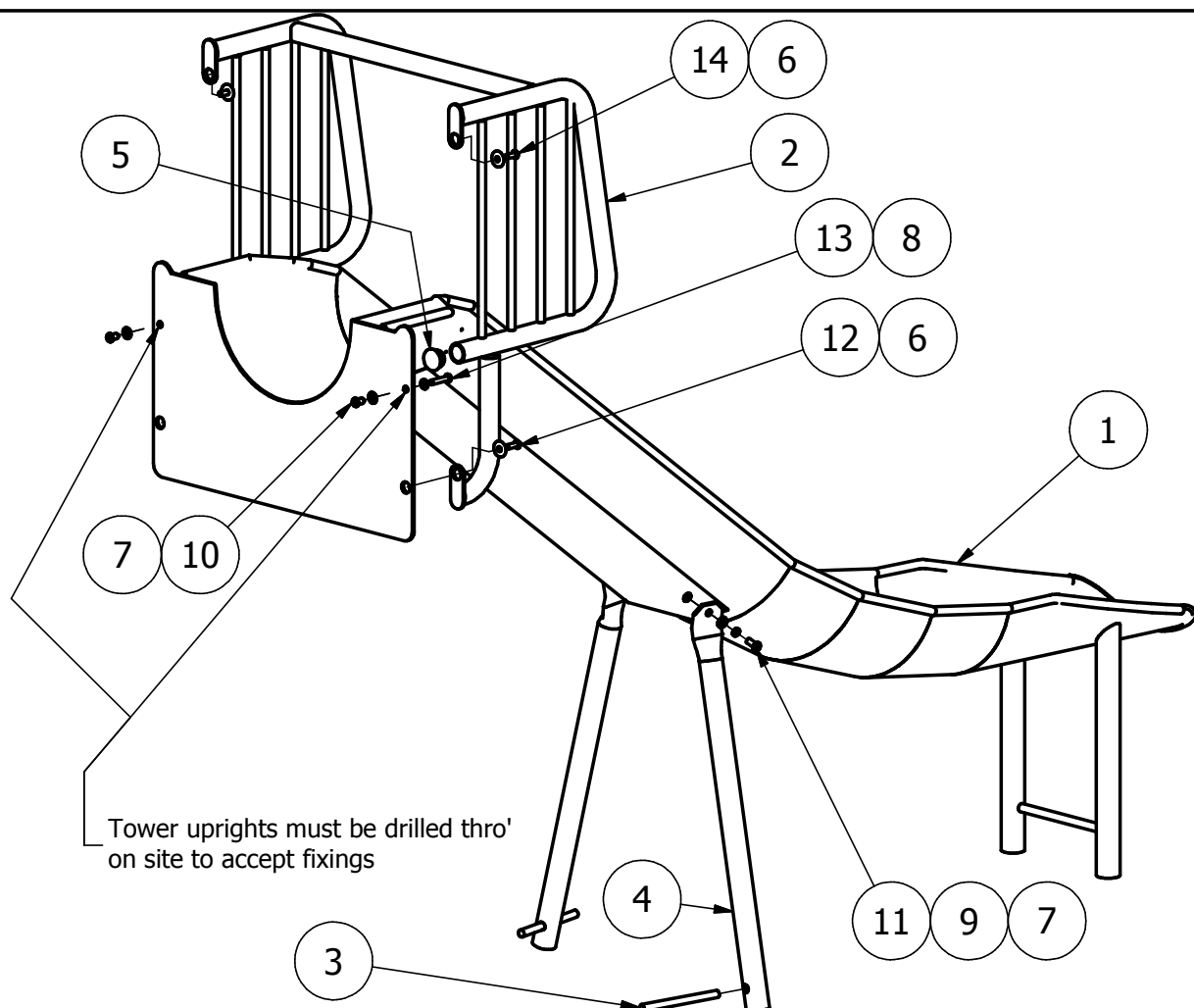
Note In accordance with 6.1.3 EN1176-1:2008 we recommend that slides do not face south or near due south due to heat build up.

Note ENSURE ALL INSTALLATION AIDS ARE REMOVED BEFORE FIRST USE

Foundations

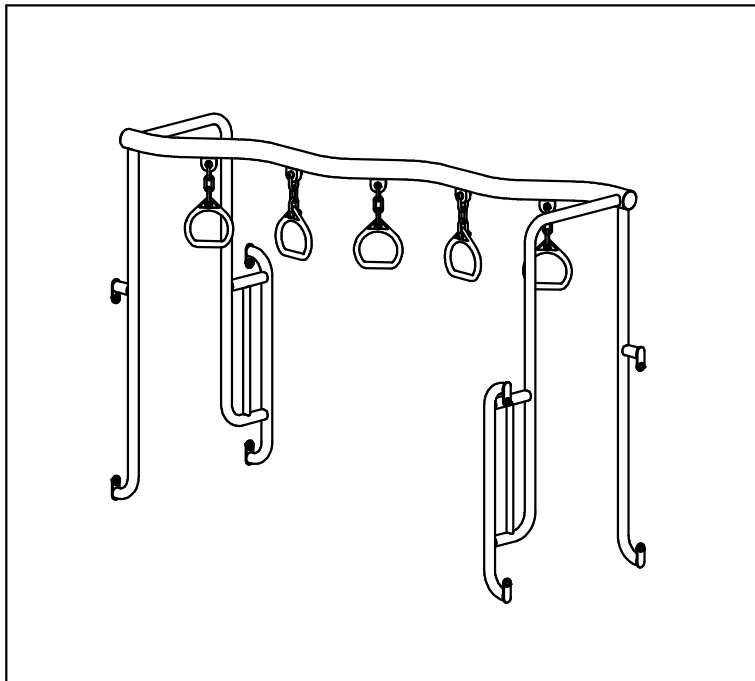
Care must be taken in abnormal conditions





ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	90159-01	LOW SLIDE CHUTE
2	1	90106-02	SINGLE SLIDE BARRIER
3	2	3031-010	SPRAGGING IRON
4	2	3001-031	SUPPORT LEG
5	2	2611-002	Top Cap Plug
6	4	2215-519	Wicksteed Washer
7	4	2215-509	M12 Plain Washer
8	2	2215-508	M10 Washer
9	2	2212-204	M12 Spring Washer
10	2	2177-002	M10 Safety Fastener
11	2	2176-177	M12 x 30 Pent Button Head
12	2	2176-132	M10 x 30 Pent Button Head
13	2	2176-129	M10 x 50 Pent Button Head
14	2	2176-126	M10 x 25 Pent Button Head

COMPILED AB	REV	0	1	2						
	ECN	1655	Minor	Minor						
DATE: 24/04/12	SIG.	AB	DB	MC						
	DATE:	24/04/12	11/03/14	18/08/15						



Planet Jungle	
Trapeze	
PROD. CODE	90161
SIZE	0.83 x 2.2 x 1.5
AGE RANGE	Up to 8 years old
F/ FALL HEIGHT	990mm
HEAVIEST PART	Approx 50.5 kg
TOTAL WEIGHT	Approx 57.5 kg
	

SPECIFICATION

Solid steel to BS 970 Part 1
 Nominal bore tube (medium) to BS 1387
 Aluminium casting LM27 to BS 1490 (1970)
 Chains manufactured and tested in accordance with BS 590 and safe working load certificated

Welds are from copper-free wire to BS EN 440
 Low lead polyester powder paint to BS 71 Part 3
 Standard fixings are made to either BS 3692 or BS 4190
 Non-standard fixings are anti-vandal and corrosion resistant

INSTALLATION INSTRUCTIONS

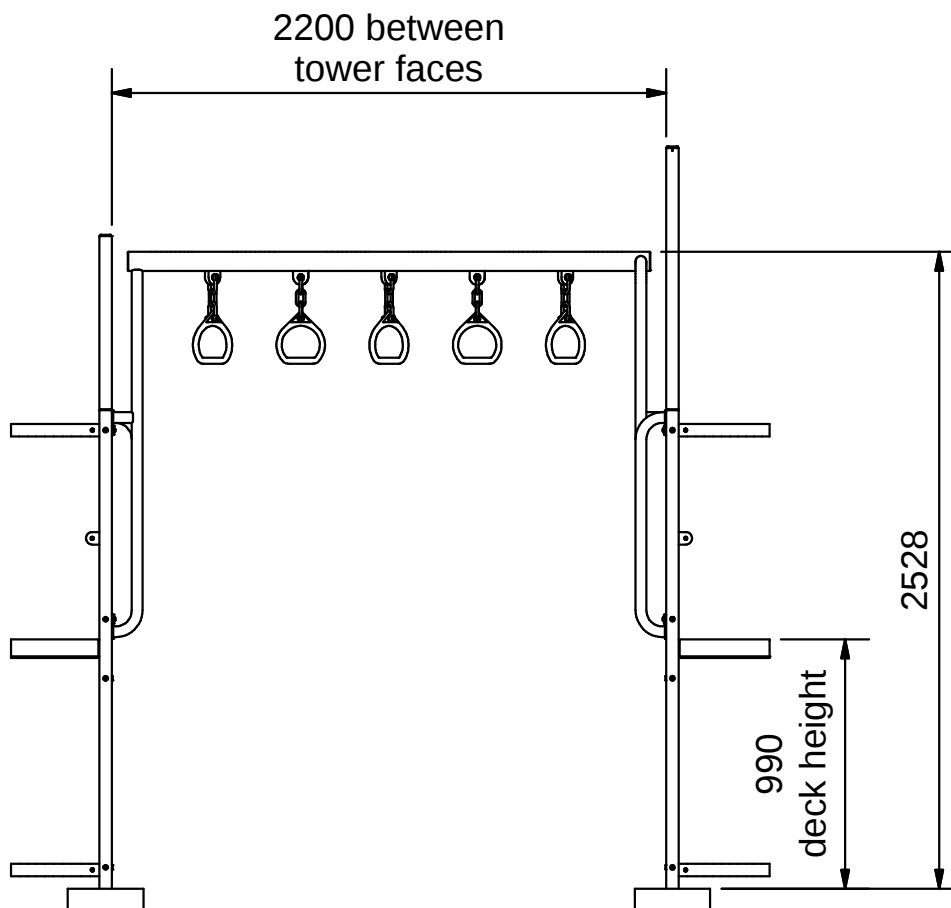
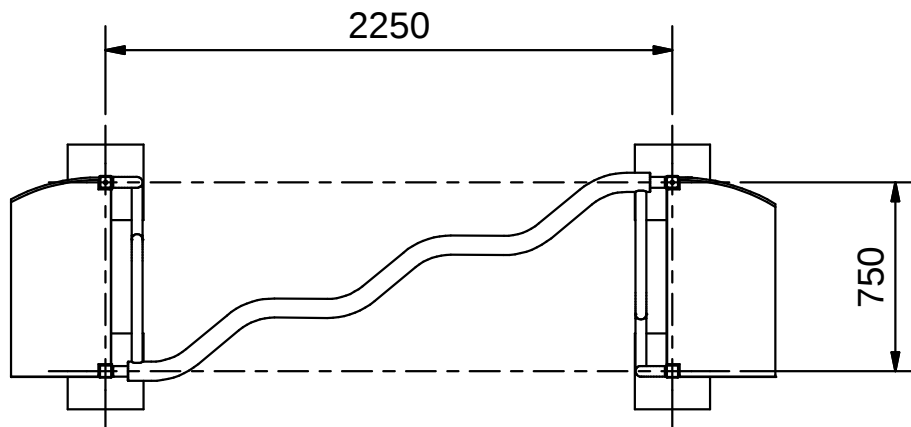
- 1 Read instructions thoroughly before commencing installation of unit
- 2 Support the trapeze frame and fit to tower frames as shown

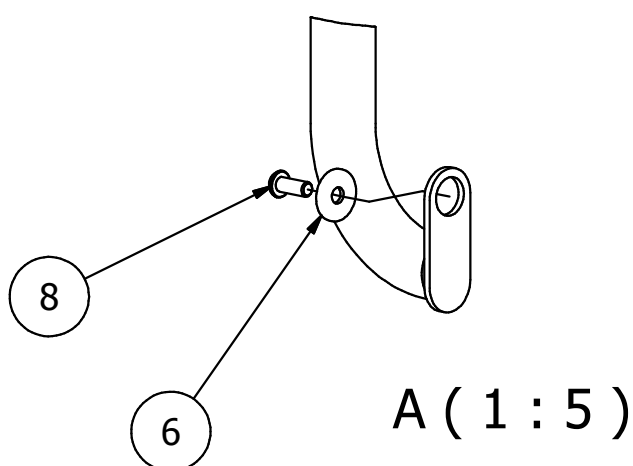
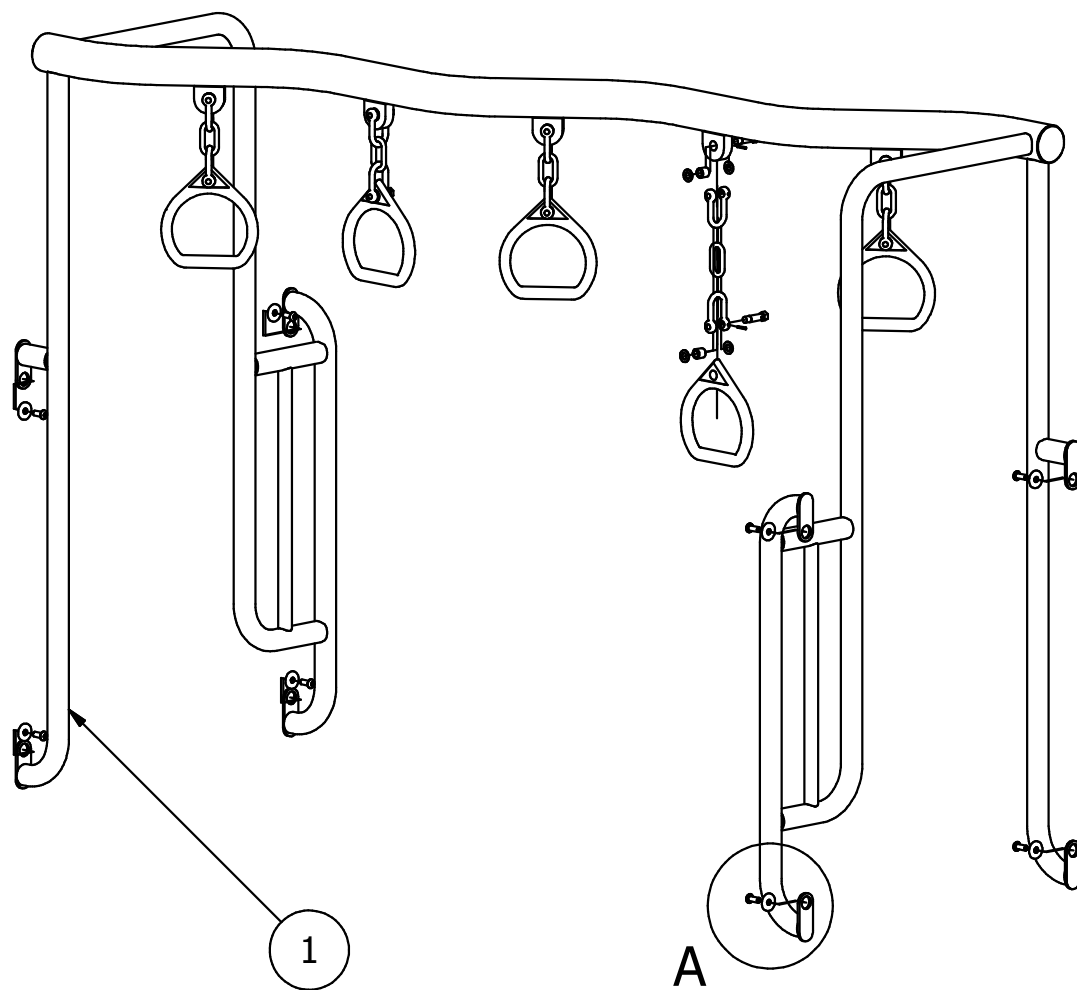
Note

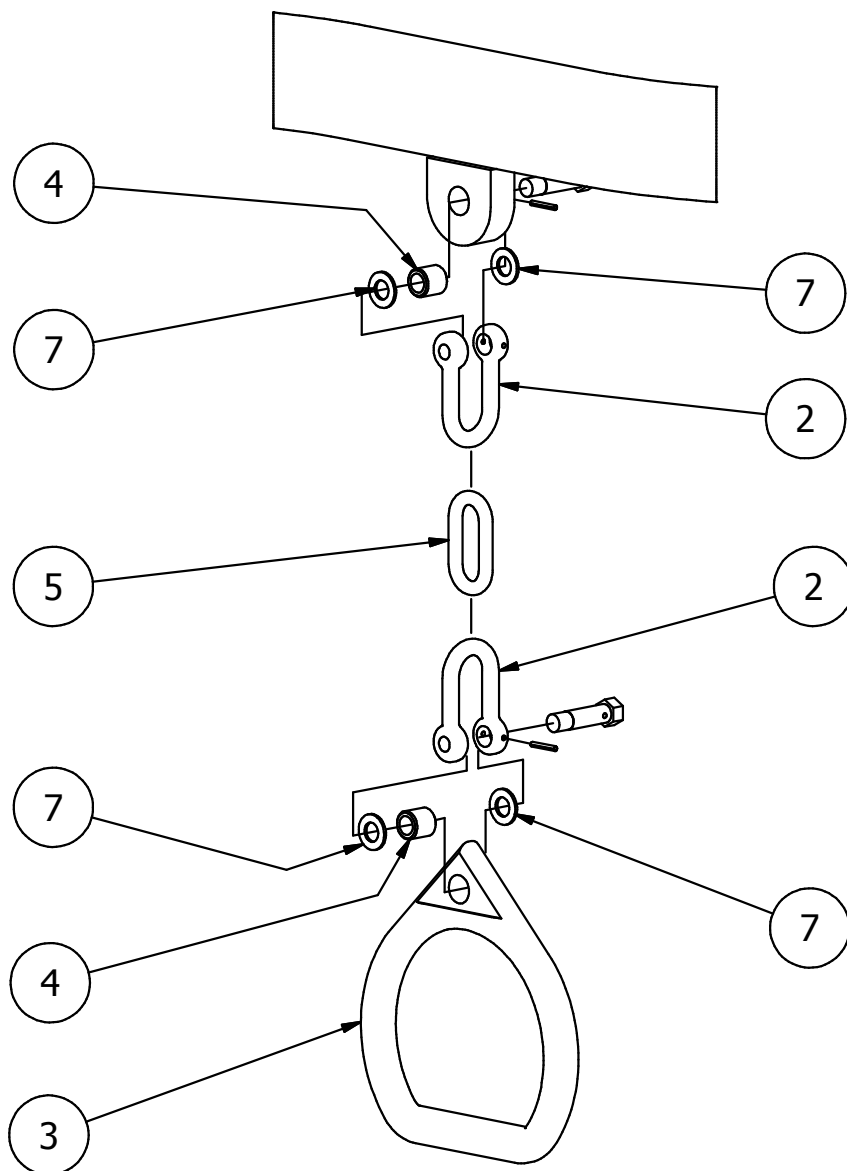
Note ENSURE ALL INSTALLATION AIDS ARE REMOVED BEFORE FIRST USE

Foundations

Care to be taken in abnormal conditions



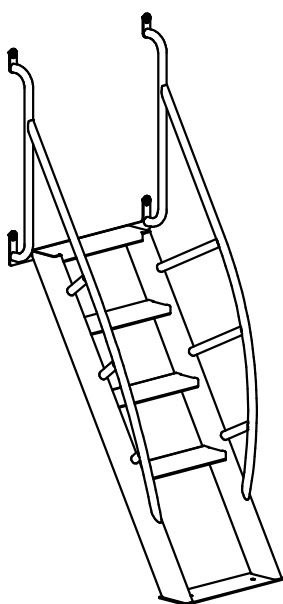




PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	90161-01	TRAPEZE FRAME
2	10	4064-007	SHACKLE ASSY
3	5	3711-020	TRAPEZE HANDLE
4	10	2511-010	OILITE BUSH CT10
5	5	2410-001	TRAPEZE LINK
6	8	2215-519	Wickstead Washer
7	20	2215-509	M12 Plain Washer
8	8	2176-126	M10 x 25 Pent Button Head

COMPILED AB	REV	0								
	ECN	1655								
DATE: 25/04/12	SIG.	AB								
	DATE:	25/04/12								



Planet Jungle

Access Steps

PROD. CODE	90167
SIZE	0.48 x 0.8 x 2.3
AGE RANGE	4 years to adult
F/ FALL HEIGHT	990mm
HEAVIEST PART	Approx 48.8 kg
TOTAL WEIGHT	Approx 50 kg



SPECIFICATION

Solid steel components to BS 970 part 1
Nominal bore tube (medium) to BS 1387
RHS to BS 4848 part 2
3mm Durbar chequer plate
Standard fixings to BS 3692 or BS 4190

Non-standard fixings are anti-vandal
and corrosion resistant
Welds are from copper-free wire to BS EN 440
Low lead polyester powder paint to BS 71

INSTALLATION INSTRUCTIONS

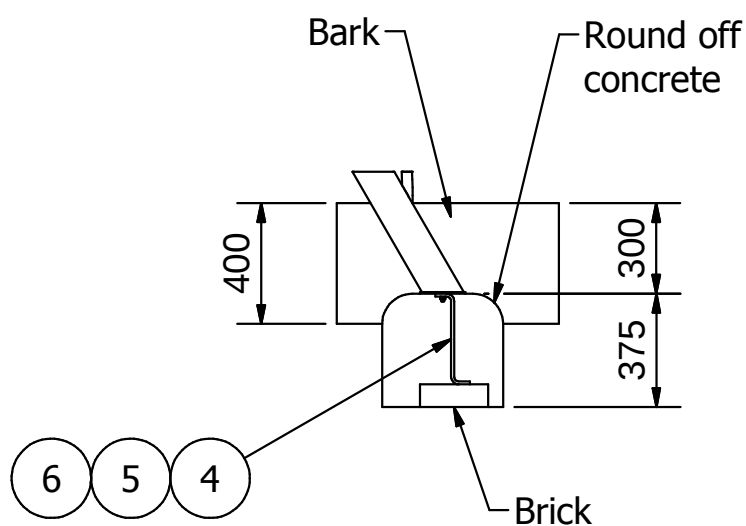
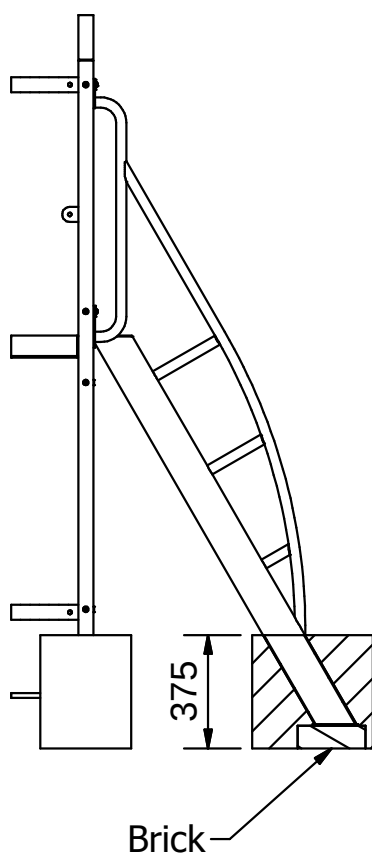
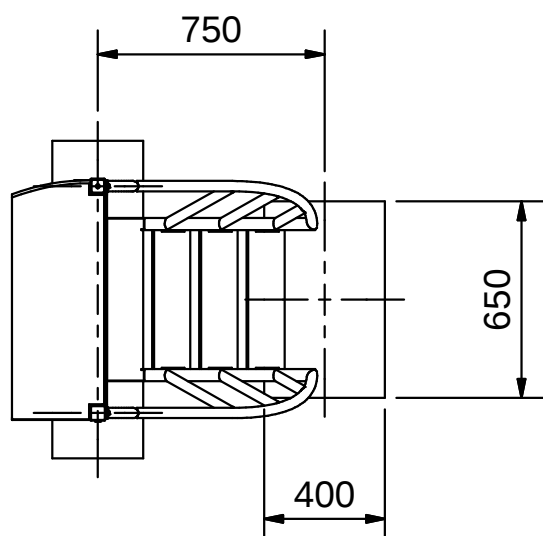
- 1 Read instruction thoroughly before commencing installation of unit
- 2 Excavate foundations as shown in the plan
- 3 Position steps on bricks in the excavated foundations and secure to tower as shown
- 4 When the unit is fully assembled and all fixings secure, backfill the foundations with 0.09m³ of concrete (4 parts gravel/2 parts sand/1 part cement)
- 5 Allow concrete to set for 48 hours before first use

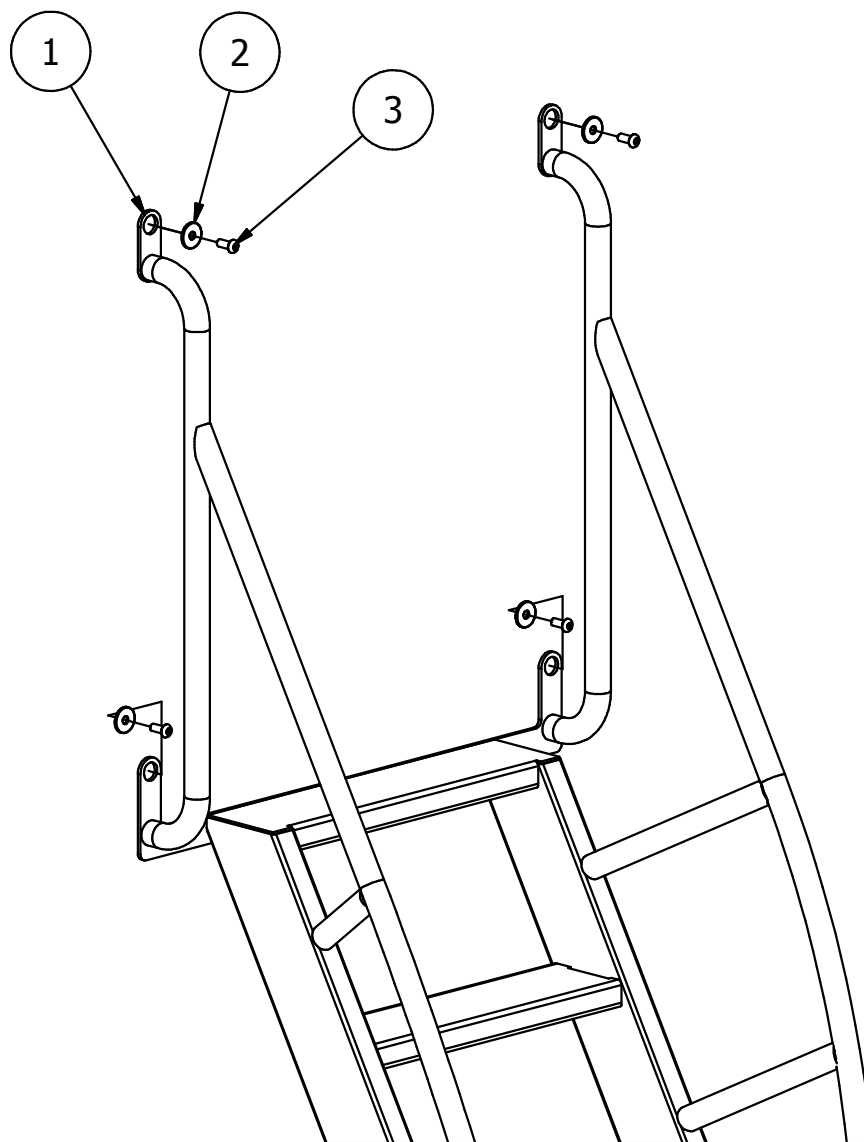
Note

Note ENSURE ALL INSTALLATION AIDS ARE REMOVED BEFORE FIRST USE

Foundations

Care must be taken in abnormal conditions





PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	90167-01	ACCESS STEPS WELDED ASSY
2	4	2215-519	Wicksteed Washer
3	4	2176-126	M10 x 25 Pent Button Head

FOR BARK FIX ADD

ITEM	QTY	PART NUMBER	DESCRIPTION
4	2	5071-028	Z-SHAPED BELOW GROUND FIXING
5	2	2193-006	M10 Nut
6	2	2175-116	M10 x 30 LG HEX HD SCREW

COMPILED AB	REV	0								
	ECN	1655								
DATE: 25/04/12	SIG.	AB								
	DATE:	25/04/12								

DESPATCH LIST

Sheet 1 of 1

Product: 901-KIMA Kima

Date of Issue: 30/04/12

Order No:

Issue:

Item	Unit Qty	Description	Part No.	Checked
		Items marked * to be fitted prior to despatch		
1	1	Net hand hold assembly	90104-03	
2	1	Scramble net	90104-02	
3	2	Below ground fixing assembly	5071-024	
4	1	Metal barrier	90122-01	
5	1	Welded square tower assembly	90150-01	
6	1	Welded quadrant tower assembly	90151-01	
7	1	Curved climbing panel *	90154-01	
8	1	Welded monkey pole slider	90156-02	
9	1	Sliding Pole Assy	4202-481	
10	1	Low slide chute	90159-01	
11	1	Single slide barrier	90106-02	
12	2	Support leg	3001-031	
13	1	Trapeze frame	90161-01	
14	1	Access steps welded assembly	90167-01	
	1	Fixing pack		

Total No. of Items

Picked By:

Checked By:

COMPILED BY: AB	REV	0	1	2			
	ECN No.	1655	1707	Minor			
DATE: 30/04/12	DATE	30/04/2012	12/12/2014	24/08/2015			
	SIGN	AB	AB	DB			

FIXINGS LIST

Sheet 1 of 3

Product: 901-KIMA Kima

Date of Issue: 30/04/12

Order No:

Issue:

Item	Unit Qty	Description	Part No.	Checked
		90104 Scramble Net		
1	2	Rapid link	4061-125	
2	2	Spragging iron	3031-010	
3	4	Wicksteed washer	2215-519	
4	3	M10 safety fastener	2177-002	
5	4	M10 x 25 pent button head screw	2176-126	
		90122 Metal Barrier		
6	4	Wicksteed washer	2215-519	
7	4	M10 x 25 pent button head screw	2176-126	
		90154 Curved Climbing Wall		
8	16	Fixing washer *	2900-041	
9	32	Black Poepplemann cup *	2611-031	
10	32	Black Poepplemann cap *	2611-031	
11	16	Fixing spacer (15 panel) *	2472-009	
12	16	Wicksteed washer *	2215-519	
13	16	M10 binx nut *	2191-010	
14	16	M10 x 50 hex head bolt *	2185-038	
		90156 Monkey Pole Slider		
15	4	Wicksteed washer	2215-519	
16	4	M10 x 25 pent button head screw	2176-126	
17	1	M10 x 40mm Pent Button Head	2176-133	
18	1	M10 Safety Fastener	2177-002	
		Items marked * to be fitted before despatch		

Total No. of Items

Picked By:

Checked By:

COMPILED	REV	0	1	2	3	4	5
BY: AB	ECN No.	1655	1672	Minor	Minor	Minor	Minor
DATE: 30/04/12	DATE	30/04/2012	03/12/2012	23/09/2013	30/10/2013	12/03/2014	24/08/2015
	SIGN	AB	AB	MC	DB	DB	DB

FIXINGS LIST

Sheet 2 of 3

Product: 901-KIMA Kima

Date of Issue: 30/04/12

Order No:

Issue:

Item	Unit Qty	Description	Part No.	Checked
		90159 Low Slide		
19	2	Spragging iron	3031-010	
20	2	Top cap plug	2611-002	
21	6	Wicksteed washer	2215-519	
22	2	M12 washer	2215-509	
23	2	M12 spring washer	2212-204	
24	2	M12 x 30 pent button head screw	2176-177	
25	2	M10 x 30 pent button head screw	2176-132	
26	2	M10 x 25 pent button head screw	2176-126	
27	2	M10 x 50 Pent Button Head	2176-129	
28	2	M10 Safety Fastener	2177-002	
29	2	M10 Washer	2215-508	
		90161 Trapeze		
30	10	Shackle assembly *	4064-007	
31	5	Trapeze handle *	3711-020	
32	10	Oilite bush CT10 *	2511-010	
33	5	Trapeze link *	2410-001	
34	8	Wicksteed washer	2215-519	
35	20	M12 washer *	2215-509	
36	8	M10 x 25 pent button head screw	2176-126	
		Items marked * to be fitted before despatch		

Total No. of Items

Picked By:

Checked By:

COMPILED	REV	0	1	2	3	4	5
BY: AB	ECN No.	1655	1672	Minor	Minor	Minor	Minor
DATE: 30/04/12	DATE	30/04/2012	03/12/2012	23/09/2013	30/10/2013	12/03/2014	24/08/2015
	SIGN	AB	AB	MC	DB	DB	DB

FIXINGS LIST

Sheet 3 of 3

Product: 901-KIMA Kima

Date of Issue: 30/04/12

Order No:

Issue:

Item	Unit Qty	Description	Part No.	Checked
		90167 Access Steps		
37	4	Wicksteed washer	2215-519	
38	4	M10 x 25 pent button head screw	2176-126	
39	20	Insert plug M10	2611-016	
40	2	M10/M12 pent key	2372-008	
		Items marked * to be fitted before despatch		

Total No. of Items

Picked By:

Checked By:

COMPILED	REV	0	1	2	3	4	5
BY: AB	ECN No.	1655	1627	Minor	Minor	Minor	Minor
DATE: 30/04/12	DATE	30/04/2012	03/12/2012	23/09/2013	30/10/2013	12/03/2014	24/08/2015
	SIGN	AB	AB	MC	DB	DB	DB