

INSTALLATION INSTRUCTIONS **ACTION PACK**



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Section 1: PROCEDURES

1 PREPARATION

All equipment assembly and fixing must conform to EN1176.

Before commencing the installation the surrounding area must be sufficiently fenced and signs erected to warn the public of the risk of injury.

Tools: Plumline, 5m Tape measure, Spirit level, Step ladder, Torque wrench, 5/16" AF Socket & Driver, M6 & M10 Torx tools (Supplied with unit).

Minimum Personal Protective Equipment: Hard hat, Gloves, Armoured boots.

1.1 ESTABLISH ORIENTATION

- i) Consult SMP layout drawing for equipments 'falling space' / 'free space'.
- ii) Measure out the site to ensure the space required fits into the allotted area, it is horizontal and free from trip points or other obstructions.
- iii) Slides must not face due south, run down or uphill.
- iv) Ensure the equipment is to be provided with an effective Impact Absorbing Surface which has a tested critical fall height rating greater than the maximum freefall height of the equipment.

1.2 MARK OUT HOLES

Consult SMP layout drawing for concrete specifications.

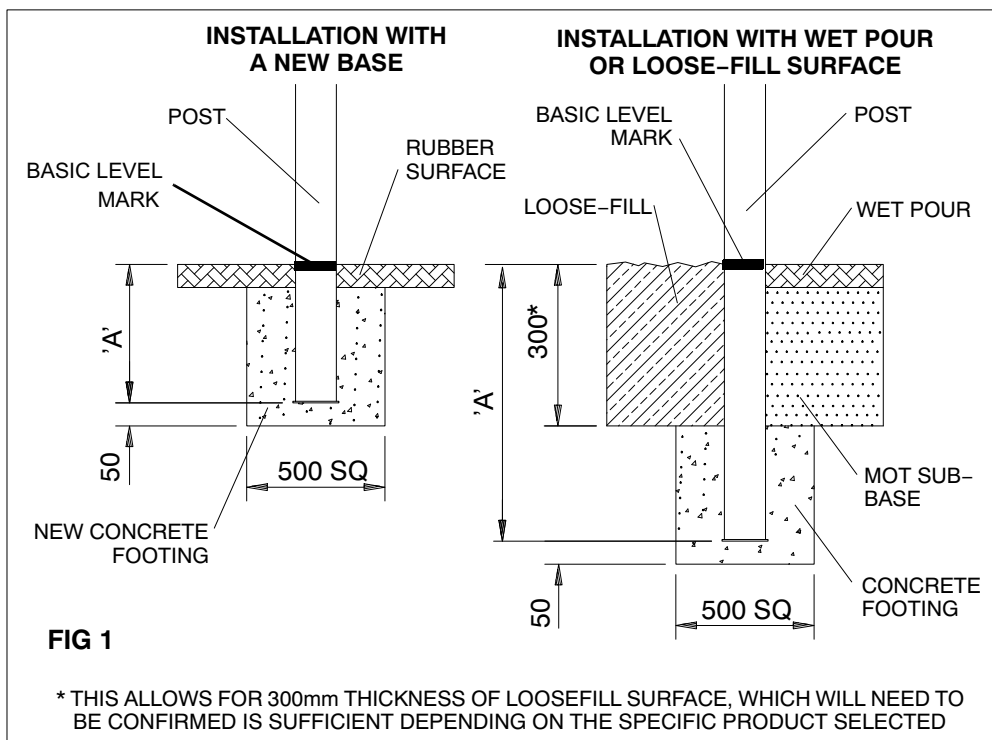
NOTE: This is a minimum guide only. Hole excavation should be done progressively as the steelwork is erected.

1.3 ESTABLISH DATUM LEVEL

- i) If a rubber tiled Impact Absorbing surface is to be laid, see separate instructions (base may incorporate up to 2% falls etc).
- ii) If equipment is to sit in loose fill or wet pour rubber surfaces allowances will need to be made for its recommended thickness. In this instance, if specified, SMP will supply extensions to all the equipment to allow for the loose fill thickness of 300mm, ensuring that all the steelwork has adequate penetration into the concrete footings. With certain loose fill materials, a greater thickness than 300mm may be required. This will need to be determined by allowing 100mm for dispersal in addition to the thickness required for the freefall height of the particular Action Pack layout. The posts required for loose fill surfaces are longer than the standard posts, and are shown in the chart below. For deck to ground components, the extensions are itemised in the following sections but generally take the form of an additional leg SSGIL, which should be bolted in place where applicable before the general assembly proceeds. In other cases certain components such as firemans poles may be supplied pre-extended.
- iii) Component ground clearances and heights must be maintained to ensure the installation conforms with EN1176. Those components that are particularly important are:-
 - i) Slides
 - ii) Tower decks
 - iii) Steps
 - iv) Ladders
 - v) Ramps

If a discrepancy occurs, the following may be considered

- i) Alter ground levels
- ii) Change orientation



1.4 COMPONENT IDENTIFICATION

CODE	POST DESCRIPTION	DECK HT.	PART No.	DIM 'A'	QTY	WT (kg)
rR15	1500 TOWER & ROOF STANDARD*	1500	45093955	300	4	33.71
	1500 TOWER & ROOF LOOSE FILL*		45094255	600		36.21
rT15	1500 TOWER STANDARD	1500	45092785	300		23.64
	1500 TOWER LOOSE FILL		45093085	600		26.14
rR12	1200 TOWER & ROOF STANDARD*	1200	45093655	300		31.20
	1200 TOWER & ROOF LOOSE FILL*		45093955	600		33.71
rT12	1200 TOWER STANDARD	1200	45092485	300		21.13
	1200 TOWER LOOSE FILL		45092785	600		23.64
rR10	1000 TOWER & ROOF STANDARD*	1000	45093455	300		29.53
	1000 TOWER & ROOF LOOSE FILL*		45093655	500		31.20
rT10	1000 TOWER STANDARD	1000	45092285	300		19.46
	1000 TOWER LOOSE FILL		45092485	500		21.13
rR06	600 TOWER & ROOF STANDARD*	600	45093105	300	26.19	
	600 TOWER & ROOF LOOSE FILL*		45093455	700	29.53	
rT06	600 TOWER STANDARD	600	45091885	300	16.13	
	600 TOWER LOOSE FILL		45092285	700	19.46	

*** REFER TO SECTION 3 FOR ROOF ASSEMBLY ROUTINE**

- i) The components supplied for an Action Pack are broken down into groups which are coded for assembly purposes.

GROUP	PLAN CODE
Tower side elevations	EL
Tower decks	rT
Tower decks with roof	rR
'Deck to deck' assemblies	DD
'Deck to ground' assemblies	DG

- ii) Each group is split into assemblies which are numbered. e.g DD8 refers to 'Deck to deck' assembly, DG4 refers to 'Deck to ground' assembly, EL23 refers to 'Tower elevation' etc.
- iii) The plan code for the required assembly can be read from SMP layout drawing supplied and then cross referenced to the assembly sketches in the following sections of this manual. Each sketch shows the assemblies required component breakdown and layout.
- iv) Each component when supplied is tagged with SMP stock number and description, these can also be cross referenced to the part tables in the following sections.
- v) When ordering new or replacement parts, quote the stock number only.

1.5 PRE-INSTALLATION INSPECTION

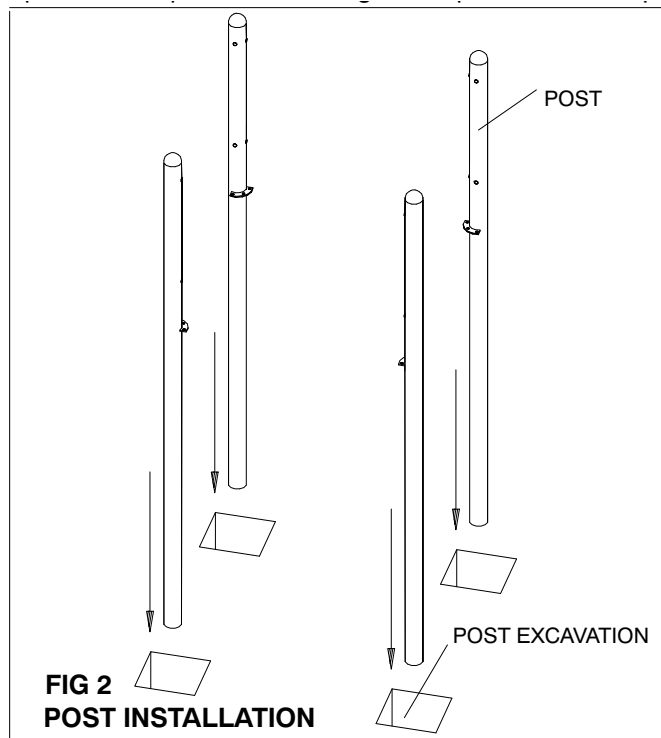
Inspect all parts for damage (which may have occurred during transportation & storage). Finish Coatings, if found to be damaged these should be made good before erection. Any damaged or missing parts must be replaced. To ensure the required hole threads are free from contamination it is recommended that they are brushed out and/or tapped out, to save time during erection.

2 ASSEMBLE TOWERS AND DECKS

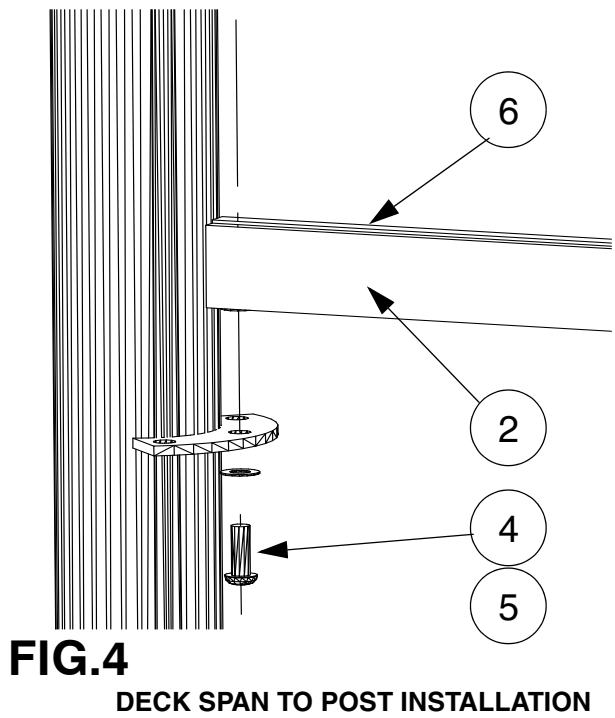
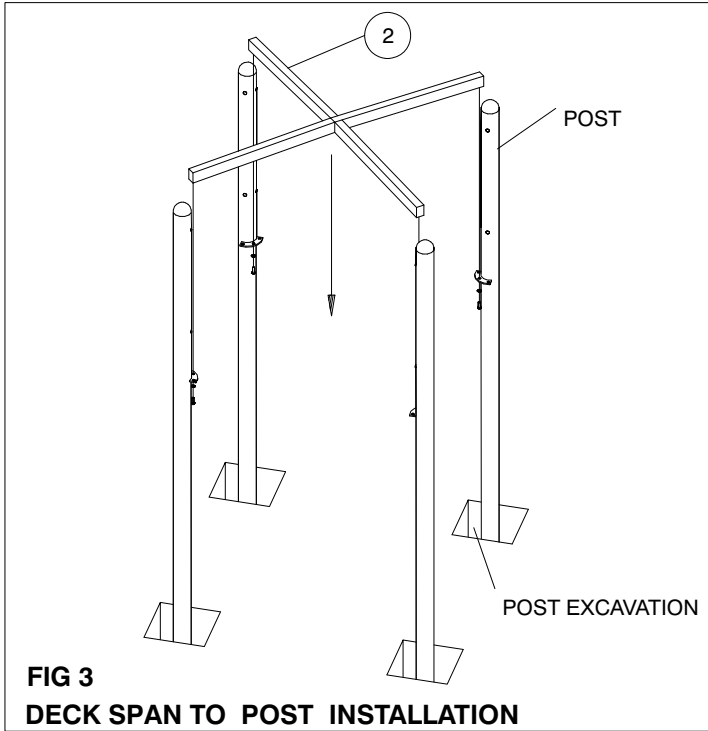
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45099005	DECK PLATE	1	17.000
2	45099020	DECK SPAN	1	12.000
3	45099010	DECK PURLIN	4	5.250
4	10121030	RESISTORX HEAD M10 x 30	28	0.028
5	10291000	WASHER PLAIN M10	28	0.002
6	19027126	FOAM S/ADHESIVE STRIP 12mm X 6mm	1 ROLL	-

- i) The posts are placed into the ground excavations, and are chocked to the correct height (FIG.1 & 2).

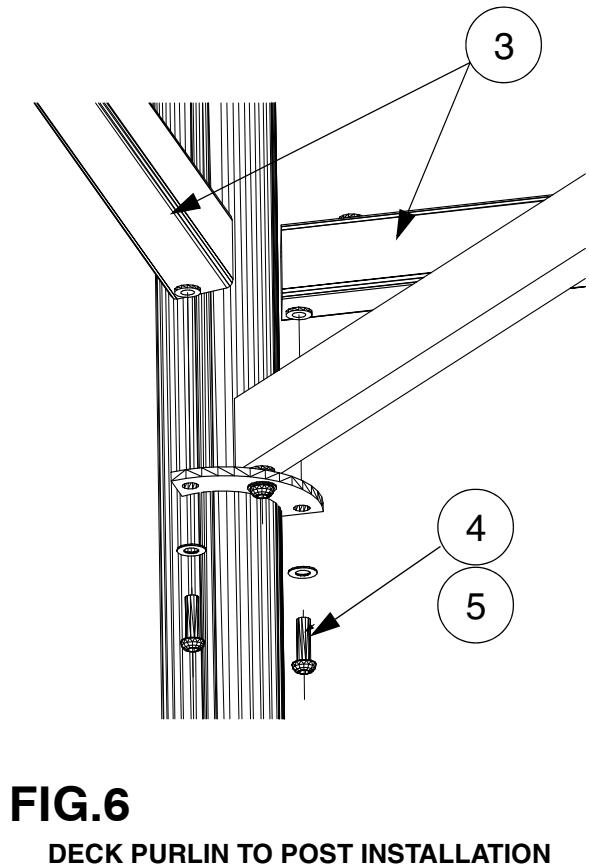
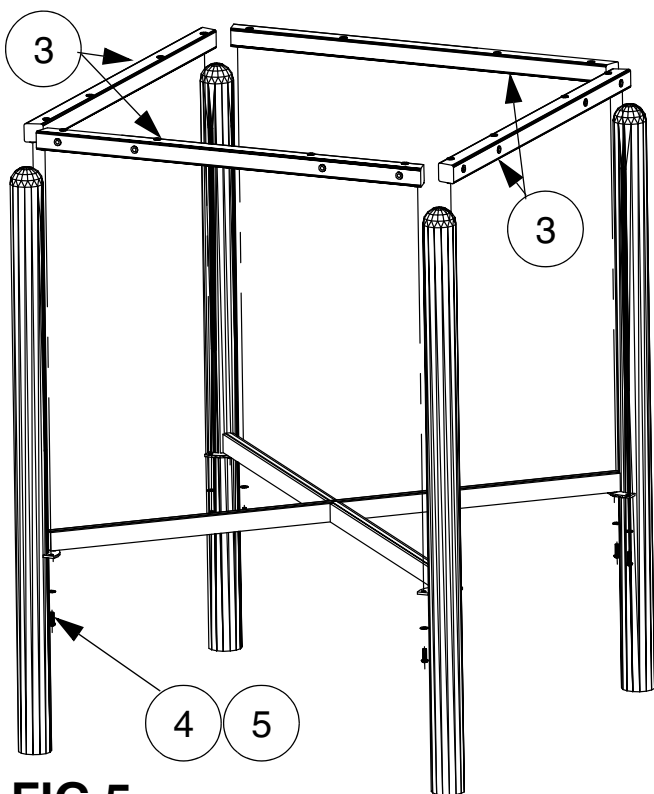
NOTE: Where roof panels are specified, the longer roof posts will be required.



- ii) The deck span Item 2 is bolted to the posts using 4 off M10 x 30 lg Resistorx bolts and washers. (FIG.3 & 4).
- iii) Place one strip of foam self adhesive strip, Item 6, on top of each arm of deck span Item 2. (FIG.3 & 4).



- iv) The deck purlins, Item 3, are bolted to the posts using 8 off M10 x 30 lg Resistorx bolts and washers. (FIG.5 & 6).



- v) The deck plate, Item 1, is then lowered onto the purlins and deck span and secured in place using 16 off M10 x 30 lg Resistorx bolts and washers. (FIG.7)

NOTE: Care should be taken not to dislodge the foam strip when when positioning deck plate

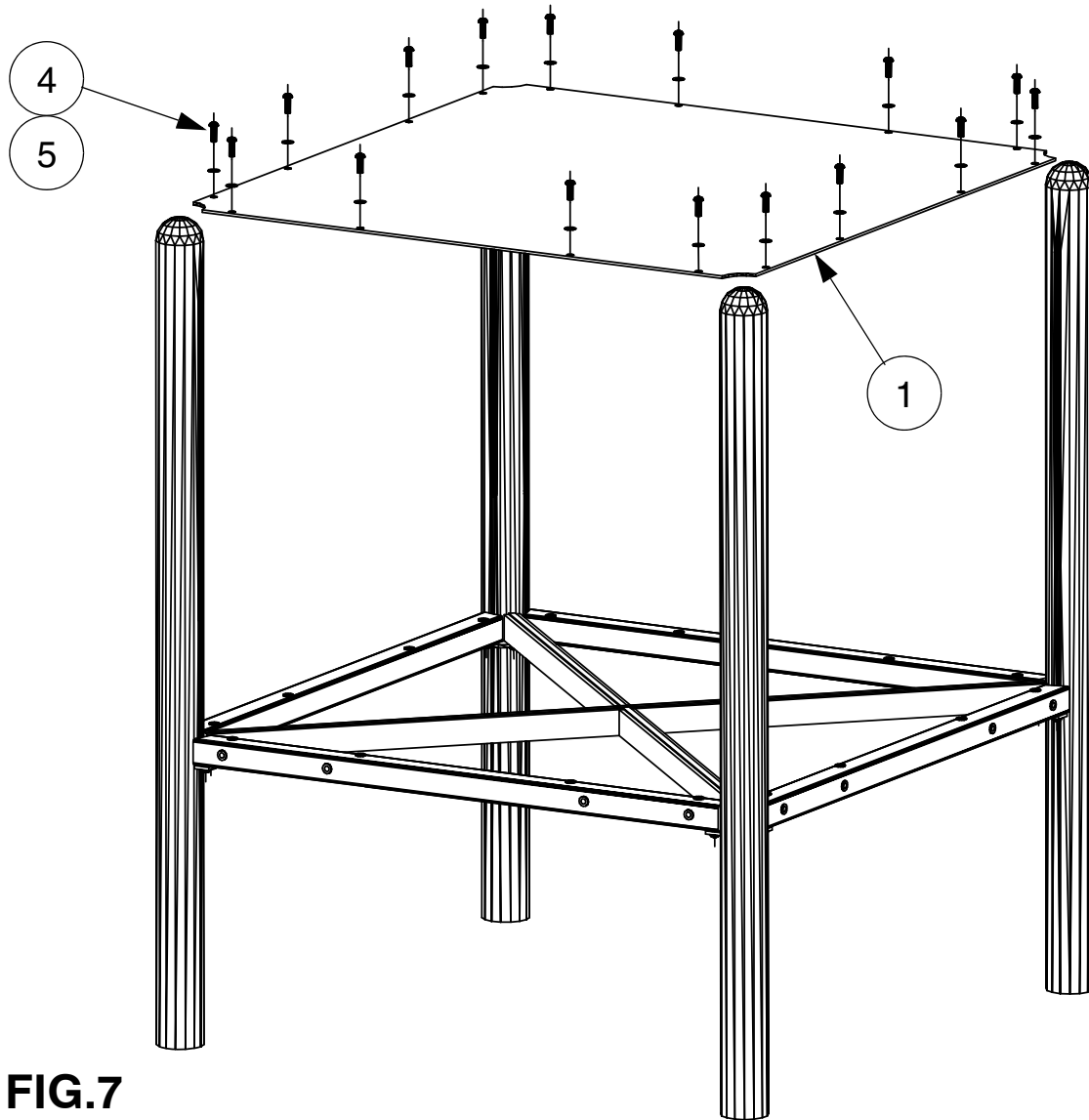
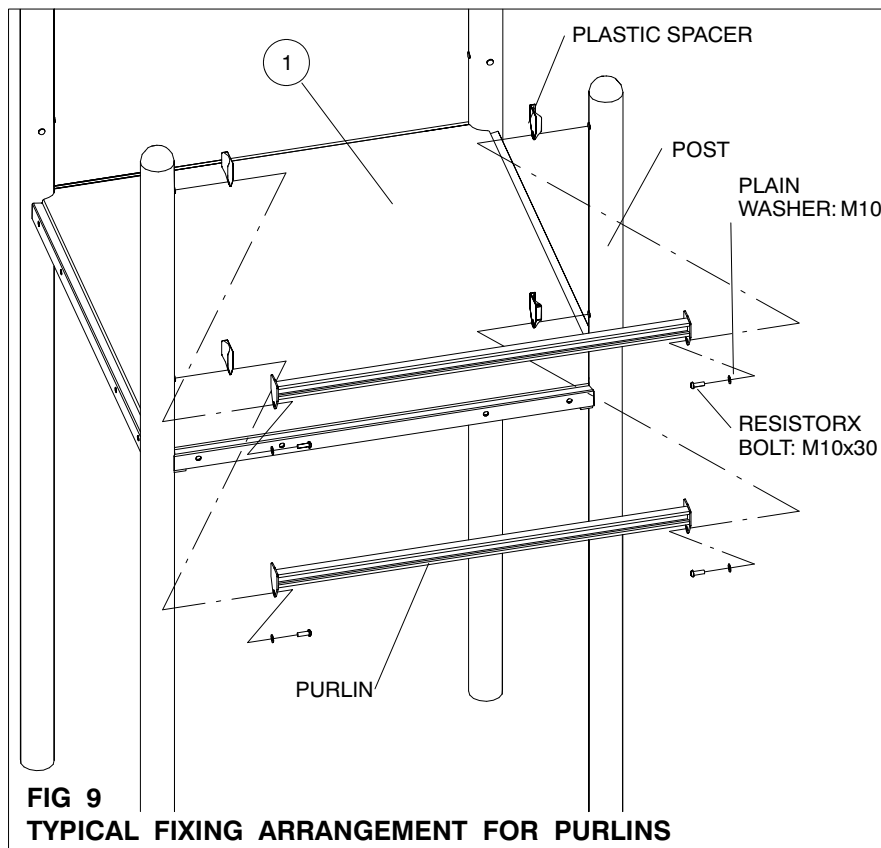
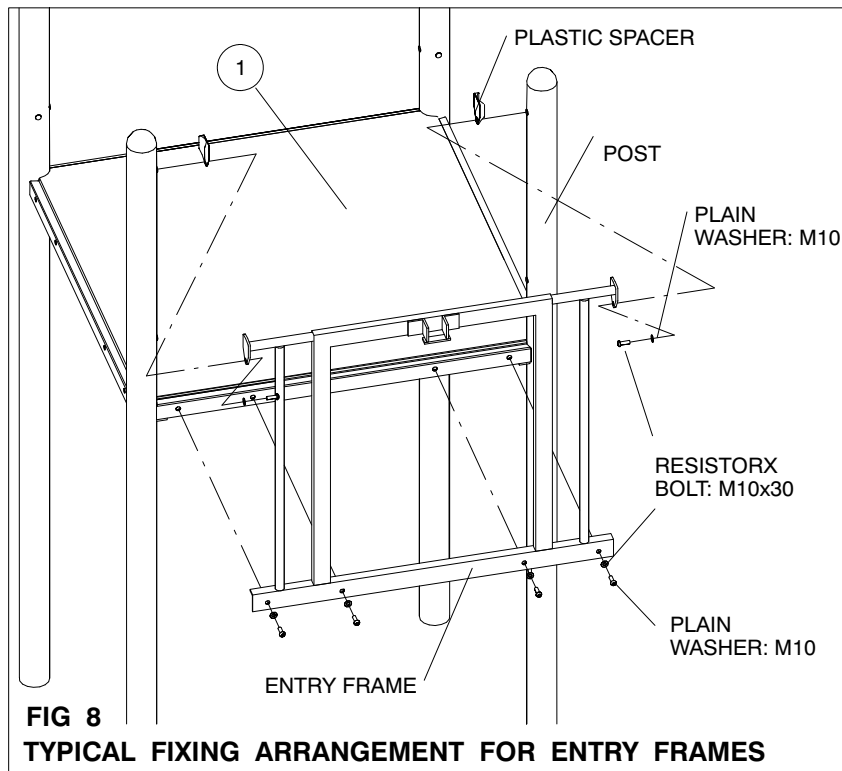


FIG.7
DECK PLATE TO PURLIN AND SPAN INSTALLATION

- vi) It is advisable to attach an entry frame or purlins to the posts at this stage using M10 x 30 lg Resistorex bolts and washers. This will leave the structure more rigid, and help with assembly (FIG.8, 9 & 10).



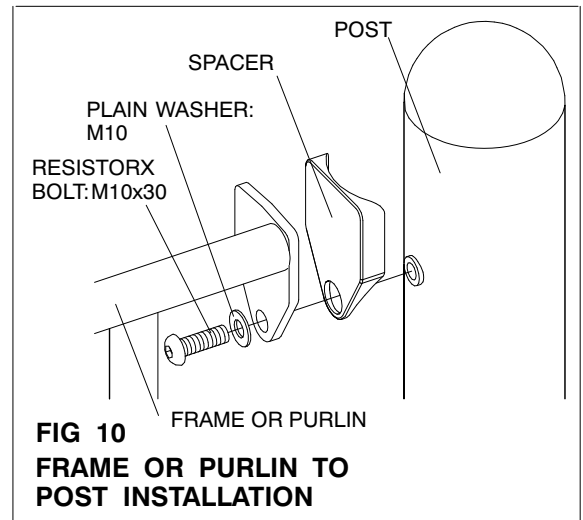
- vii) Leave 3 to 5mm slack in all bolts
viii) Do not attach any polyethylene panels at this stage

2.1 BUILD UP REMAINING STEELWORK .

Build up the rest of the steelwork using M10 x 30 Resistorx bolts and washers (unless specified otherwise in the following sections).

It is recommended that the steelwork is assembled in the following priority.

- i) Elevation (Section 2)
- ii) Roof panels (Section 3)
- iii) Barriers (Section 5)
- iv) Deck to deck assemblies (Section 4)
- v) Deck to ground assemblies (Section 6)



NOTE: Do not fully tighten any bolts or attach any polyethylene panels at this stage

3 CHECKS

Check all steelwork for level and square then tighten all bolts Do not exceed 20-25Nm torque or the inserts will dislodge and turn.

In all fixing positions on the steel work that have not been utilised: the temporary protective plug should be removed and the permanent black protective plug, Pt.No.19024501, inserted & knocked home with a soft hammer.

4 CONCRETE IN

- i) Concrete must be mixed 1:2:4 (21 N/mm)
- ii) Fill holes with concrete. Ensure full volume of concrete is used, the top of which should slope down & outwards locally from the equipment frame to form a watershed. Allowance should be made for any special surfacing.
- iii) Allow the concrete to fully cure before proceeding to attach polyethylene panels etc.

5 BOLT ALL POLYETHYLENE PANELS TO STEELWORK

- i) The full part numbers for the polyethylene panels are itemised for cross-reference within Appendix 'A'.
- ii) For polyethylene panel attachment see Appendix 'A'. Load the required number of uni-nuts into the steel channel section and slide into rough position. Offer up and then loosely bolt the polyethylene panels into position, one side at a time, working from right to left. Use M10 x 40 Resistorx bolts with M10 plain washers as supplied.
- iii) When the polyethylene panels are loosely bolted into position check for square and centre then tighten all bolts. Do not exceed 20-25Nm torque or the 'uni-nuts' will strip.

6 CLEAN SITE & POST INSTALLATION INSPECTION

- i) If a rubber tile Impact Absorbing Surface is to be laid, the site can now be prepared for laying tiles. See separate instructions.
- ii) Where additional surfacing is not being laid, make good the existing surface as required.

CHECK

CHECK

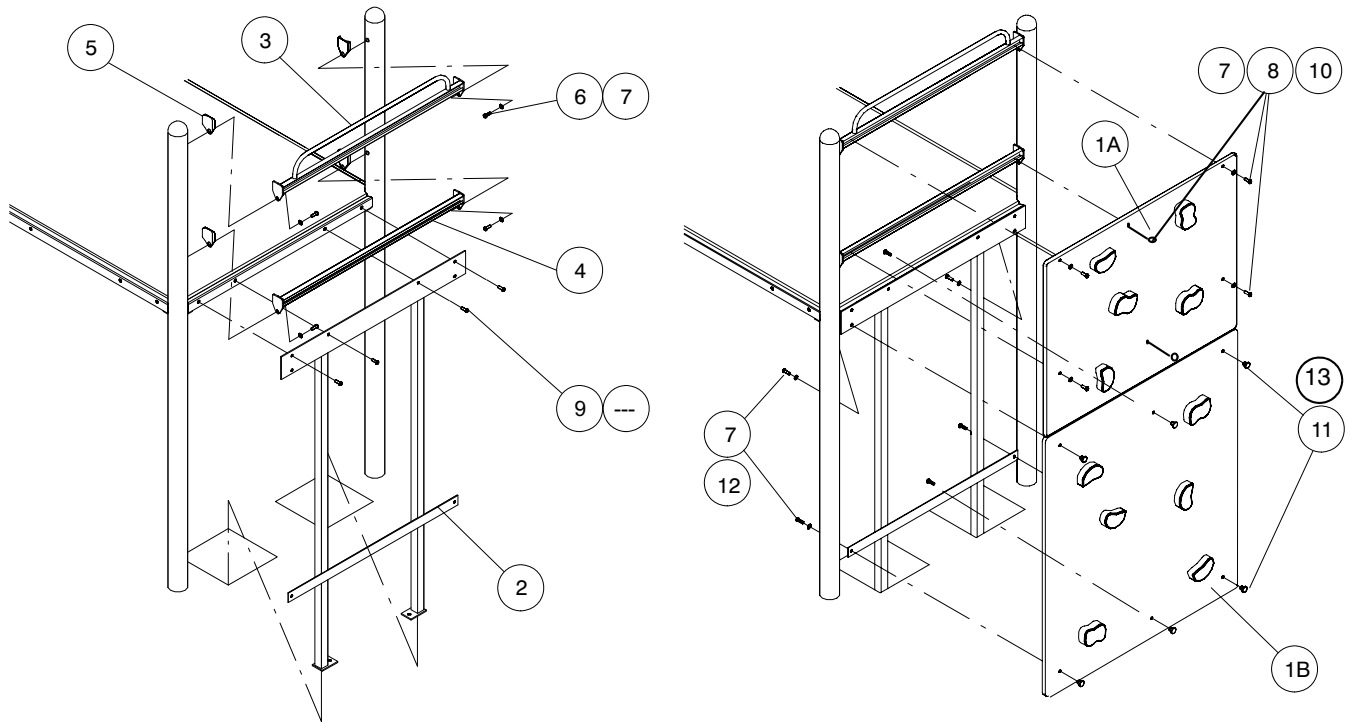


- | | | |
|---|--|--------------------------|
| 1 | Paint work is not damaged. | <input type="checkbox"/> |
| 2 | Concrete foundations & all fixings are secure. | <input type="checkbox"/> |
| 3 | Concrete has a watershed away from the legs. | <input type="checkbox"/> |
| 4 | Adequate provision of Impact Absorbing Surfacing & no trip points in the equipments falling space. | <input type="checkbox"/> |
| 5 | Site is clear of tools & rubbish | <input type="checkbox"/> |
| 6 | Remove any warning signs. | <input type="checkbox"/> |

Section 2: ELEVATIONS

1 CLIMBING WALL PANELS 1500 : rEL23

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1 A	47999001	CLIMBING WALL - UPPER	1	25.000
1 B		CLIMBING WALL - LOWER	1	42.000
2	45089000	LOWER FRAME	1	21.140
3	45089001	CLIMB WALL PURLIN	1	3.000
4	45083001	PANEL PURLIN	1	2.700
5	19024503	SPACER	4	0.020
6	10121030	RESISTORX HEAD M10 x 30	4	0.028
7	10291000	WASHER-PLAIN-M10	16	0.002
8	10510238	UNI-NUT M10-SHORT P4008	6	0.040
9	10111020	C'SNK HEAD M10 x 20	4	0.020
10	10121040	RESISTORX HEAD M10 x 40	6	0.035
11	10931000	TEE NUT - M10	6	0.020
12	10121020	RESISTORX HEAD M10 x 20	6	0.020
13	10301200	SH/PROOF WASHER	6	0.002



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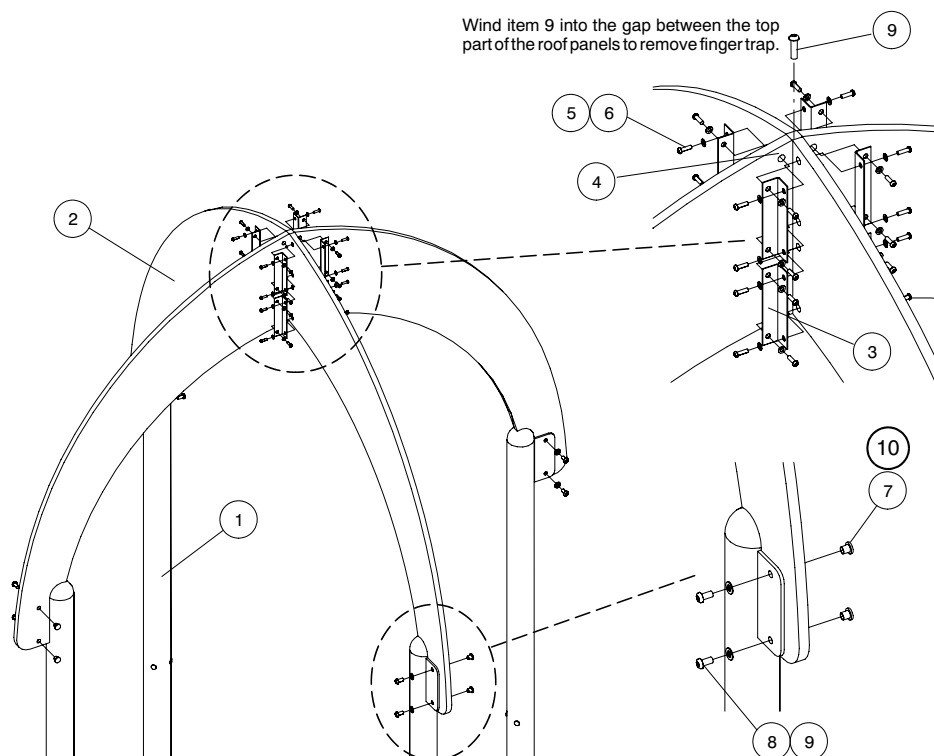
Section 3: ROOF

1 ROOF : rR**

CODE	DESCRIPTION
rR15	ROOF 1500
rR12	ROOF 1200
rR10	ROOF 1000
rR06	ROOF 600

Refer to Notes 1.3 to 2.0, and figs 1 to 9 in Section 1 of these installation instructions for excavation and assembly of posts.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45094255	ROOF POST - 1500 LOOSE FILL	4	36.210
	45093955	ROOF POST - 1500 STANDARD		33.710
		ROOF POST - 1200 LOOSE FILL		
	45093655	ROOF POST - 1200 STANDARD		31.200
		ROOF POST - 1000 LOOSE FILL		
	45093455	ROOF POST - 1000 STANDARD		29.530
		ROOF POST - 600 LOOSE FILL		
45093105	ROOF POST - 600 STANDARD	26.190		
2	48990001	ROOF PANEL SET	1	25.400
3	72072101	ANGLE BRACKET	8	0.130
4	86810032	THREADED SLEEVE	16	0.030
5	10120610	RESISTORX HEAD M6 x 10	32	0.012
6	10290600	WASHER-PLAIN-M6	32	0.001
7	10931000	TEE NUT - M10	8	0.020
8	10291000	WASHER-PLAIN-M10	8	0.002
9	10121020	RESISTORX HEAD M10 x 20	9	0.020
10	10301200	SH/PROOF WASHER	8	0.002

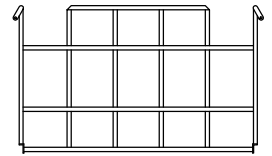
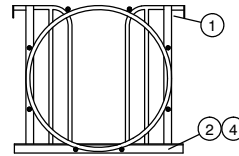


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Section 4: LINKS

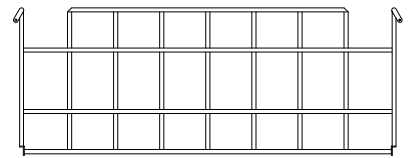
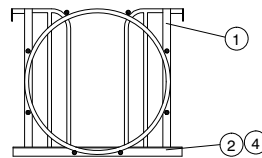
1 1.5m HOOPED LINK: DD7

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45045010	1.5 HOOPED LINK	1	69.000
2	10121030	RESISTORX HEAD M10 x 30	12	0.028
3	19024503	SPACER	4	0.020
4	10291000	WASHER-PLAIN-M10	12	0.002



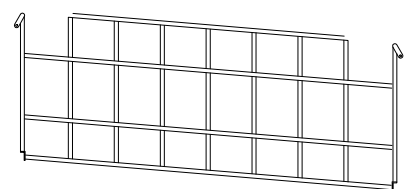
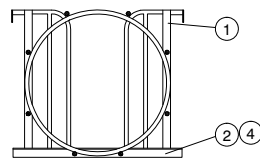
2 2.4m HOOPED CLIMBER: DD8

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
	45045020	2.4 HOOPED CLIMBR LINK	1	115.000
2	10121030	RESISTORX HEAD M10 x 30	12	0.028
3	19024503	SPACER	4	0.020
4	10291000	WASHER-PLAIN-M10	12	0.002



3 HOOPED LINK CLIMB 200 RISE: DD8B

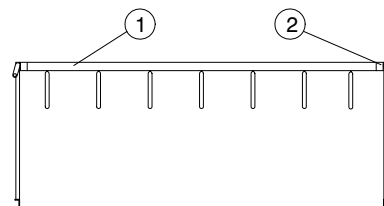
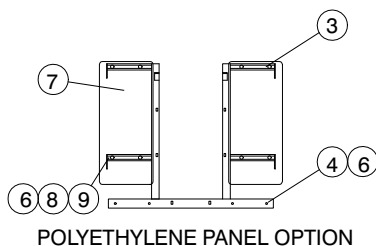
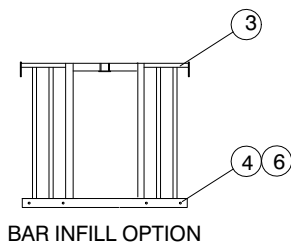
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45045030	2.4 CLIMB LINK 200 RISE	1	115.000
2	10121030	RESISTORX HEAD M10 x 30	12	0.028
3	19024503	SPACER	4	0.020
4	10291000	WASHER-PLAIN-M10	12	0.002



4 2.4m FIXED TRAPEZE: DD15

NOTE: Seat item 1 into the supporting cups on item 3, secure using item 2.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45041000	2.4 MT FIXED TRAPEZE	1	15.200
2	10121030	RESISTORX HEAD M10 x 30	4	0.028
BAR INFILL OPTION				
3	45166001	BAR INFILL TRAPEZE ENTRY	2	16.000
4	10121030	RESISTORX HEAD M10 x 30	12	0.028
5	19024503	SPACER	4	0.020
6	10291000	WASHER-PLAIN-M10	12	0.002
POLYETHYLENE PANEL OPTION*				
3	45066001	TRAPEZE ENTRY FRAME	2	14.800
4	10121030	RESISTORX HEAD M10 x 30	16	0.028
5	19024503	SPACER	8	0.020
6	10291000	WASHER-PLAIN-M10	16	0.002
7	49990103	POLYETHYLENE PANEL	4	7.032
8	10121040	RESISTORX HEAD M10 x 40	16	0.028
9	10510238	UNI-NUT M10-SHORT P4008	16	0.040
* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING.				

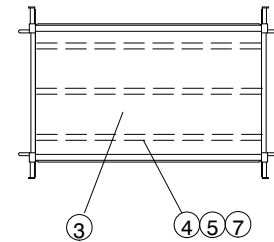
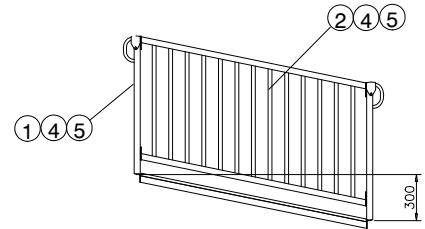


5 WINDSOR BRIDGE: DD30

To assemble:

- i) Bolt item 1 between two towers
- ii) Bolt item 2 in position
- iii) Bolt item 3 in position

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45047030	BRIDGE SUPPORT	1	36.000
2	45047010	BRIDGE HANDRAILS SET	1	22.700
3	45047031	DECK	1	11.500
4	10121030	RESISTORX HEAD M10 x 30	32	0.028
5	10291000	WASHER-PLAIN-M10	32	0.002
6	19024503	SPACER	4	0.020
7	10510238	UNI-NUT M10-SHORT P4008	12	0.040

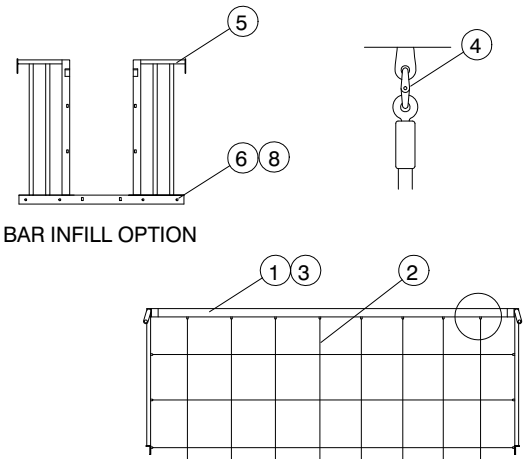


6 ROPE BRIDGE LINK: DD31

NOTES:

- i) Secure item 1 into the supporting cups on item 5, secure with item 3.
- ii) Attach item 2 using item 4.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45043092	WALK SUPPORT BEAM	2	8.000
2	45043090	ROPE WALK	1	10.000
3	10121030	RESISTORX HEAD M10 x 30	8	0.028
4	15715000	COUPLING LINK	28	0.100
BAR INFILL OPTION				
5	45143091	BAR INFILL ENTRY-ROPE BRIDGE	2	18.000
6	10121030	RESISTORX HEAD M10 x 30	12	0.028
7	19024503	SPACER	4	0.020
8	10291000	PLAIN WASHER M10	12	0.005



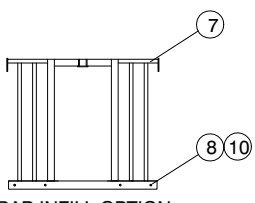
7 ROPE WALL LINK 1500: DD32A

NOTES:

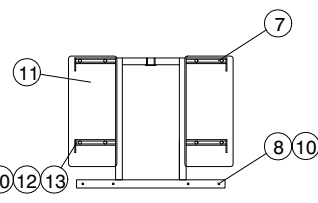
- i) Seat item 2 into the supporting cups, on item 7. Secure with item 8.
- ii) Suspend the Ground Fixing Chains (item 4) from the appropriate eye fixings on the Climber Beam vertically over the foundation holes. Ensure that at least 13 chain links are encased in the concrete to provide a secure fixing, with the Hex. Bolt at the bottom of the hole. This will leave at least 14 links extended above the F.S.L. to allow subsequent adjustment of the Rope Wall Link. Stake in position to ensure chain stays vertical during pouring of concrete.
- iii) When concrete has cured attach Climber Rope (item 1) to Beam (item 2) using coupling (item 5).
- iv) Tension Climber Rope (item 1) by connecting to the Ground Chain Assembly (item 4) with the Coupling (item 5). Remove all excess links before connecting.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45043070	TWIST CLIMBER ROPE-1500	1	15.000
2	45043072	CLIMBER BEAM	1	12.000
3	10121030	RESISTORX HEAD M10 x 30	4	0.028
4	38008027	GROUND FIXING CHAIN ASSY	3	1.500
5	15715000	COUPLING LINK	10	0.100
6				
BAR INFILL OPTION				
7	45166001	BAR INFILL TRAPEZE ENTRY	2	16.000
8	10121030	RESISTORX HEAD M10 x 30	12	0.028
9	19024503	SPACER	4	0.020
10	10291000	PLAIN WASHER M10	12	0.005
POLYETHYLENE PANEL OPTION*				
7	45066001	TRAPEZE ENTRY FRAME	2	14.800
8	10121030	RESISTORX HEAD M10 x 30	16	0.028
9	19024503	SPACER	8	0.020
10	10291000	PLAIN WASHER M10	16	0.005
11	49990103	POLYETHYLENE PANEL	4	7.032
12	10121040	RESISTORX HEAD M10x40	16	0.028
13	10510238	UNI-NUT M10-SHORT P4008	16	0.040

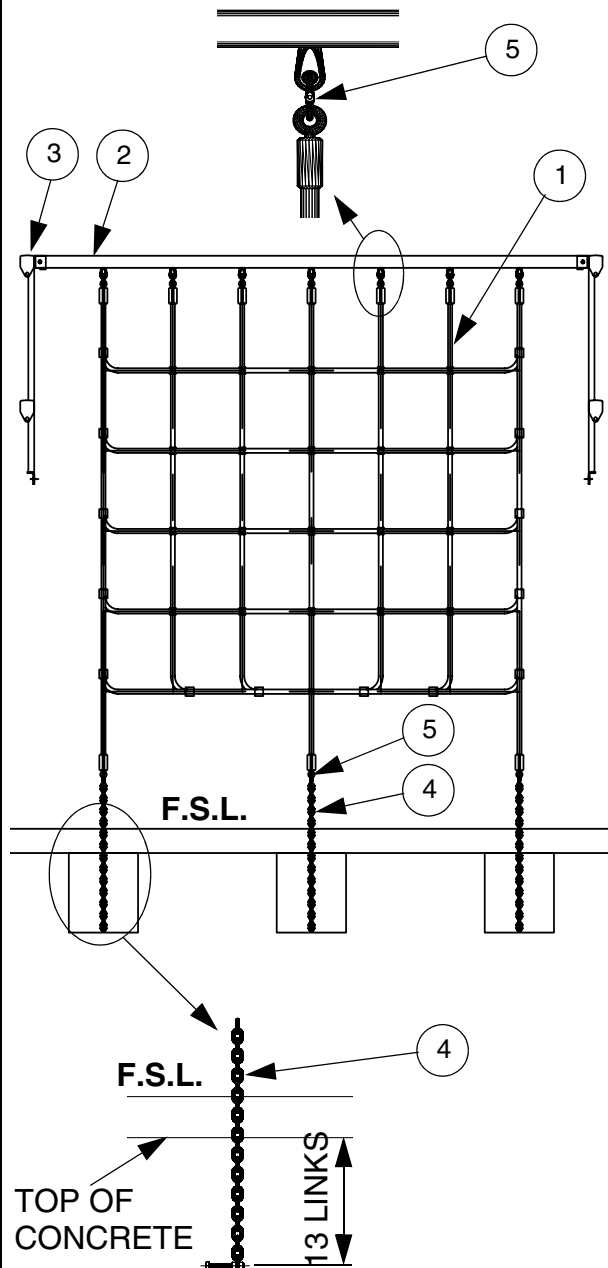
* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUTED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING.



BAR INFILL OPTION



POLYETHYLENE PANEL OPTION

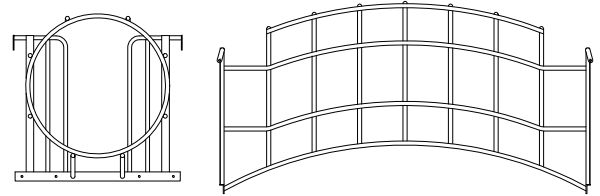


8 ROPE WALL LINK 1200: DD32B

This unit comprises of items two to five and, seven to thirteen of DD32A plus Twist Climber Rope-1200 Pt.No.45043060.

9 2.4m ARCHED HOOP LINK: DD37.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45045025	2.4 ARCHED HOOP LINK	1	120.000
2	10121030	RESISTORX HEAD M10 x 30	12	0.028
3	19024503	SPACER	4	0.020
4	10291000	PLAIN WASHER M10	12	0.020

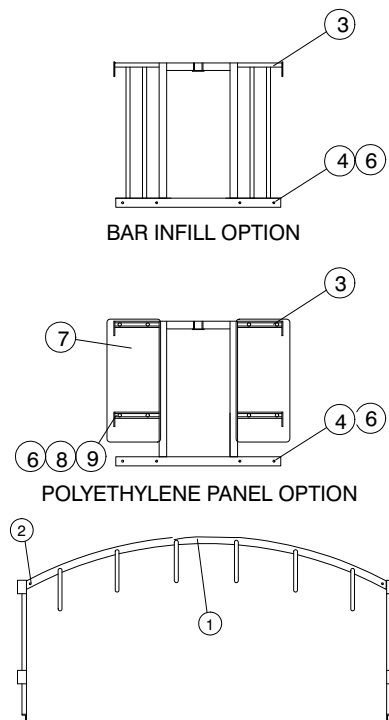


10 2.4m ARCHED TRAPEZE FIXED: DD38

NOTE:

- i) Seat item 1 into the supporting cups, on item 3, secure using item 2.

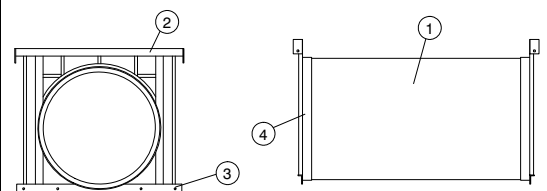
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45041051	2.4 MT ARCHED TRAPEZE	1	15.000
2	10121030	RESISTORX HEAD M10 x 30	4	0.028
BAR INFILL OPTION				
3	45166001	BAR INFILL TRAPEZE ENTRY	2	16.000
4	10121030	RESISTORX HEAD M10 x 30	12	0.028
5	19024503	SPACER	4	0.020
6	10291000	PLAIN WASHER M10	12	0.020
POLYETHYLENE PANEL OPTION*				
3	45066001	TRAPEZE ENTRY FRAME	2	14.800
4	10121030	RESISTORX HEAD M10 x 30	16	0.028
5	19024503	SPACER	8	0.020
6	10291000	PLAIN WASHER M10	28	0.005
7	49990103	POLYETHYLENE PANEL	4	7.032
8	10121040	RESISTORX HEAD M10x40	16	0.028
9	10510238	UNI-NUT M10-SHORT P4008	16	0.040
* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUTED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING.				



11 POLYETHYLENE TUNNEL: DD40

This unit is supplied assembled.
Individual replacement parts are not available

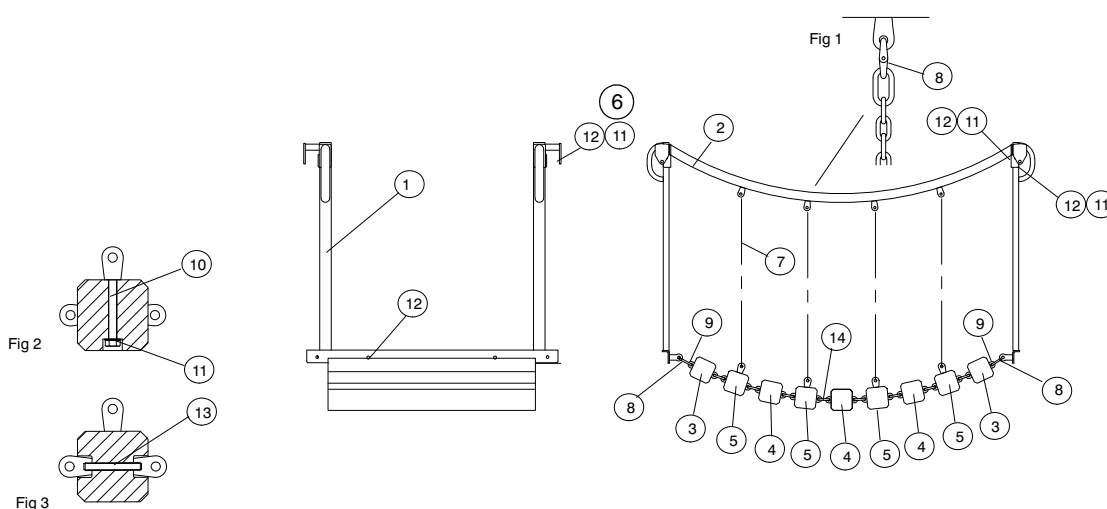
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45044071	1500 POLY-TUNNEL	1	85.800
2	45044073	TUNNEL LINK ENTRY	2	21.000
3	10121030	RESISTORX HEAD M10 x 30	12	0.028
4	10121020	RESISTORX BOLT M10 x 20	6	0.022
5	19024503	SPACER	4	0.020



12 1.5m FLEXIBLE CLIMBER: DD41

- i) Attach item 1 to support posts and deck using items 12 & 15. Repeat for the other frame.
- ii) Layout logs in order shown. (Below 'H' frames). Make sure log item 5 has the counter bore facing down (fig 2).
- iii) Start from one end and work towards the other end.
- iv) Pass item 13 through log and screw on items 9 & 14 using a suitable threadlike adhesive to prevent the items from working loose (Araldite or similar). Fully tighten assembly.
Aim to keep orientation of items 9 & 14 as shown (fig 3).
- v) Repeat procedure for all nine logs.
- vi) Hook item 8 onto item 9 (Four places).
- vii) Lift one log end up to entry frame & hook item 8 through eyebolt on to item 1. (Four places).
- viii) Tighten nuts on item 8. (Four places)
- ix) Secure item 7 to logs with item 10 (fig 2) using a suitable threadlock adhesive to prevent the items working loose (Araldite or similar). (Eight places).
- x) Link chain ends to eyenuts in handrail with item 8 (fig 1).
- xi) Secure items 7 (Twelve places)

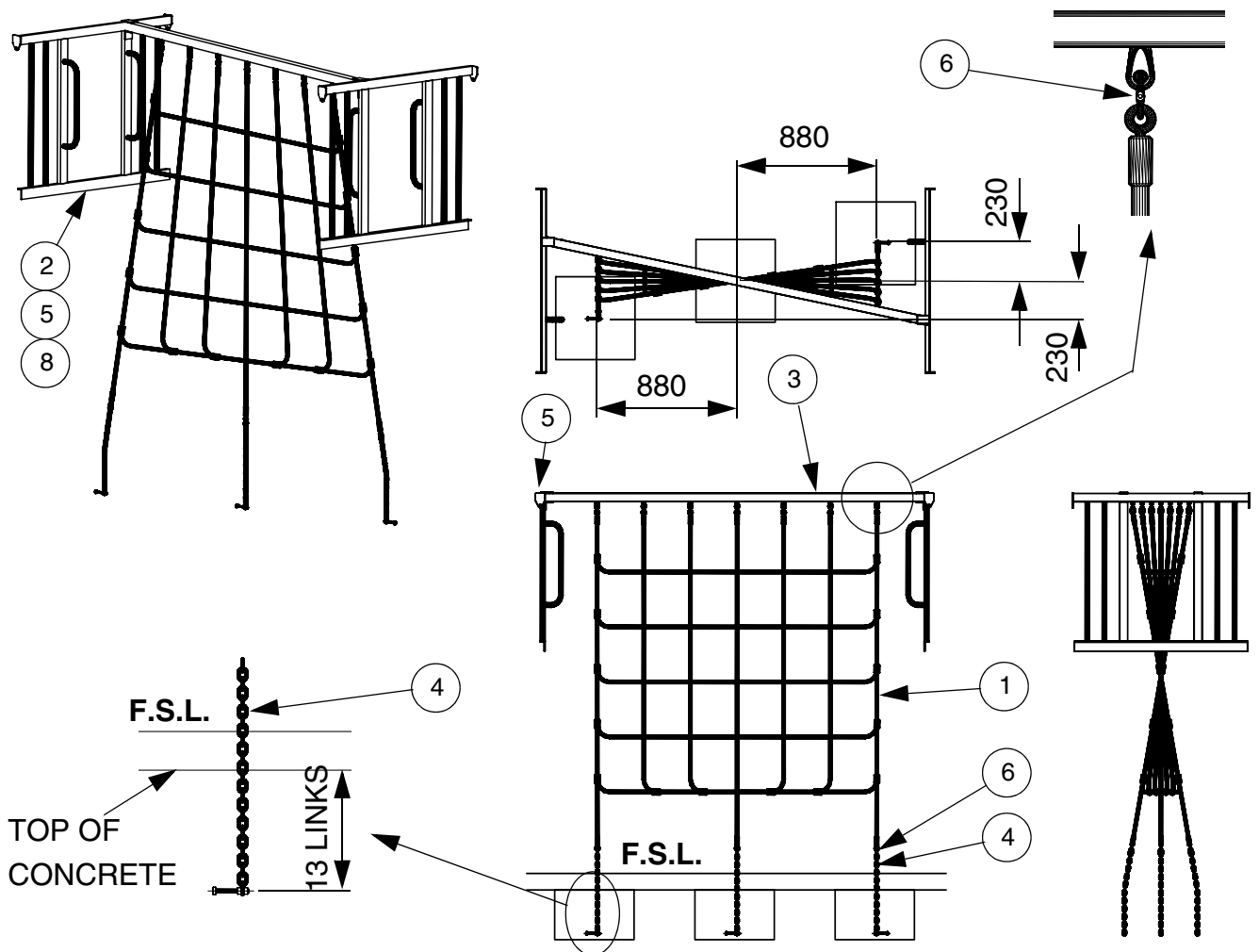
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45042094	ENTRY FRAME -1.5 FLEX BRIDGE	2	12.800
2	45042091	H/RAILS-1.5 FLEX BRIDGE	1	12.000
3	06400902	LOG -900- 2 HOLES	2	3.000
4	06401202	LOG -950- 2 HOLES	3	5.000
5	06401204	LOG -950- 4 HOLES	4	5.000
6	19024503	SPACER	4	0.020
7	45042093	SUPPORT CHAIN / EYENUT ASSEMBLY	8	1.000
8	15715000	COUPLING LINK	12	0.100
9	15731000	M10 EYE-NUT (A1060)	4	0.030
10	10251090	M10 x 90 HEX BOLT	8	0.005
11	10291000	WASHER-PLAIN-M10	28	0.002
12	10121030	RESISTORX HEAD M10 x 30	20	0.028
13	10051000	M10 STUDDING x 85	18	0.064
14	15735000	EYE-NUT/LINK ASSEMBLY	16	0.200



13 ROPE TWIST LINK 1500: DD42A

- i) Seat item 3 into the supporting cups, on item 2. Secure with item 5.
- ii) Suspend the Ground Fixing Chains (item 4) vertically over the foundation holes in their correct position. Ensure that at least 13 chain links are encased in the concrete to provide a secure fixing, with the Hex. Bolt at the bottom of the hole. This will leave at least 14 links extended above the F.S.L. to allow subsequent adjustment of the Twist Climber Rope. Stake in position to ensure chain stays vertical during pouring of concrete.
- iii) When concrete has cured attach Twist Climber Rope (item 1) to Beam (item 3) using coupling (item 6).
- iv) Tension Twist Climber Rope (item 1) by connecting to the Ground Chain Assembly (item 4) with the Coupling (item 5). Remove all excess links before connecting.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45043070	TWIST CLIMBER ROPE-1500	1	15.000
2	45043061	TWIST CLIMBER ENTRY	2	21.000
3	45043062	TWIST CLIMBER BEAM	1	12.000
4	38008027	GROUND FIXING CHAIN ASSY	3	1.500
5	10121030	RESISTORX HEAD M10 x 30	16	0.028
6	15715000	COUPLING LINK	10	0.100
7	19024503	SPACER	4	0.020
8	10291000	WASHER-PLAIN-M10	12	0.002



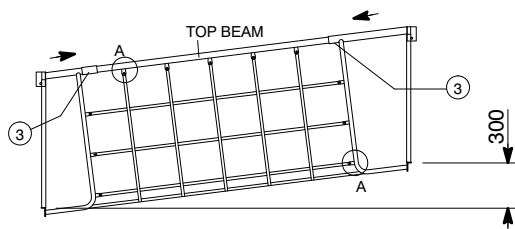
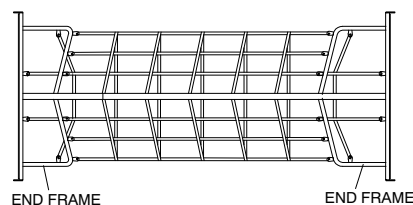
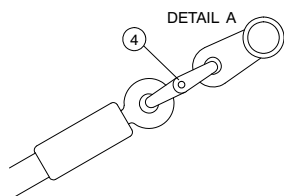
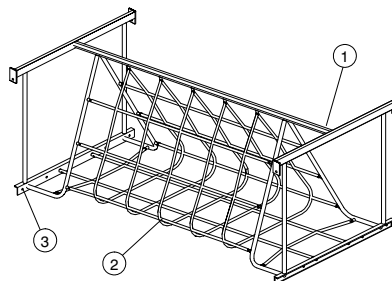
14 ROPE TWIST LINK 1200: DD42B

This unit comprises of items two to eight of DD42A plus Twist Climber Rope-1200 Pt.No.45043060.

15 ROPE TUNNEL CLIMBER LINK: DD45

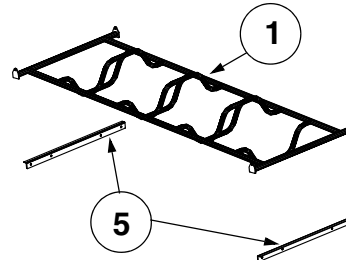
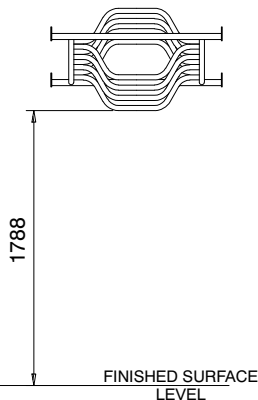
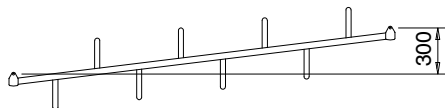
- i) Slide the two end frames on to the top beam. Locate the fixing eyes downwards.
- ii) Attach item 2 to the frame using item 4 (ref detail A).
- iii) Slide the end frames out and align the holes in the frames and the beam. Secure using 2x item 3.
- iv) Secure assembly between towers.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45045070	ROPE TUNNEL FRAME	1	29.700
2	45045078	ROPE TUNNEL	1	15.300
3	10121030	RESISTORX HEAD M10 x 30	14	0.028
4	15715000	COUPLING LINK	25	0.100
5	19024503	SPACER	4	0.020
6	10291000	WASHER-PLAIN-M10	12	0.002



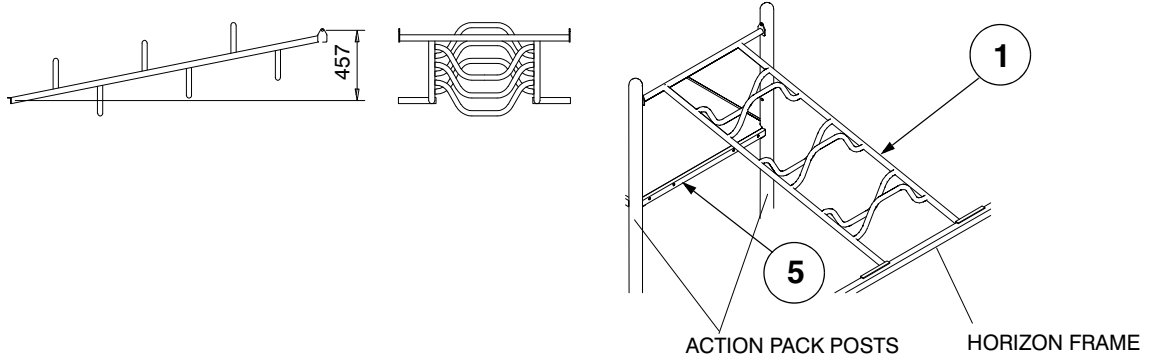
16 TRAVERSE CLIMBER LINK: DD46

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45045040	TRAVERSE WAVE (300 RISE)	1	32.500
2	10121030	RESISTORX HEAD M10 x 30	12	0.028
3	19024503	SPACER	4	0.020
4	10291000	WASHER-PLAIN-M10	12	0.002
5	45062003	BASIC ENTRY ANGLE	2	1.900



17 ACTION PACK/HORIZON CONNECTOR LINK: DD47

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45042030	TRAVERSE FABRICATION	1	32.500
2	10121030	RESISTORX HEAD M10 x 30	10	0.028
3	19024503	SPACER	2	0.020
4	10291000	WASHER-PLAIN-M10	10	0.002
5	45062003	BASIC ENTRY ANGLE	1	1.900

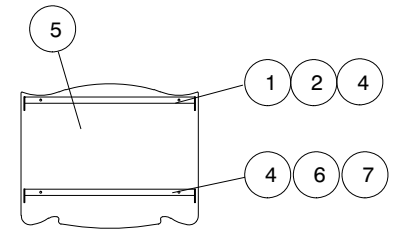
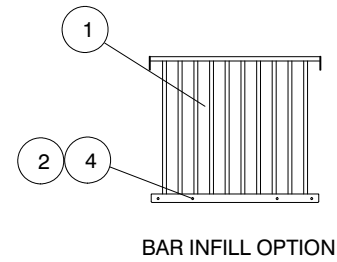


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Section 5: BARRIERS

1 BARRIER : EB8

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
BAR INFILL OPTION				
1	45165001	BAR INFILL BARRIER	1	13.000
2	10121030	RESISTORX HEAD M10 x 30	6	0.028
3	19024503	SPACER	2	0.020
4	10291000	WASHER PLAIN M10	6	0.002
POLYETHYLENE PANEL OPTION				
1	45083001	POLY PANEL PURLIN	2	2.700
2	10121030	RESISTORX HEAD M10 x 30	4	0.028
3	19024503	SPACER	2	0.020
4	10291000	PLAIN WASHER M10	8	0.005
5	49990105	POLY PANEL-UPPER BARRIER	1	11.735
6	10121040	RESISTORX HEAD M10 x 40	4	0.028
7	10510238	UNI-NUT M10-SHORT P4008	4	0.040



POLYETHYLENE PANEL OPTION

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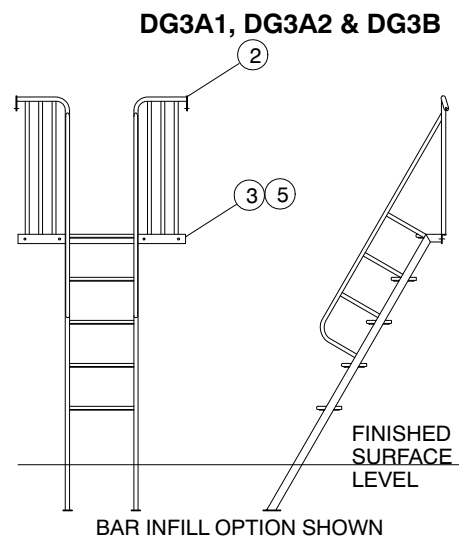
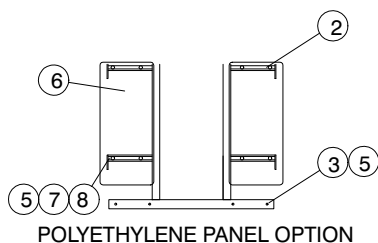
Section 6: ACCESS

1 SLOPED ACCESS STEPS 1000 HT : DG3A1 SLOPED ACCESS STEPS 1200 HT : DG3A2 SLOPED ACCESS STEPS 1500 HT : DG3B

ITEM	CODE	DESCRIPTION	QTY DG3A1	QTY DG3A2	QTY DG3B	WT (kg)
BELOW GROUND EXTENSIONS						
1	SSGIL	GROUTING IN LUG	2	2	2	2.200
BAR INFILL						
2	45111040	BAR INFILL 1000 SLOPED STEPS	1			30.000
	45111240	BAR INFILL 1200 SLOPED STEPS		1		35.000
	45111540	BAR INFILL 1500 SLOPED STEPS			1	47.000
3	10121030	RESISTORX HEAD M10 x 30	6	6	6	0.028
4	19024503	SPACER	2	2	2	0.020
5	10291000	PLAIN WASHER M10	6	6	6	0.005
POLYETHYLENE PANEL OPTION*						
2	45011040	1000 SLOPED STEPS	1			28.000
	45011240	1200 SLOPED STEPS		1		33.000
	45011540	1500 SLOPED STEPS			1	45.000
3	10121030	RESISTORX HEAD M10 x 30	8	8	8	0.028
4	19024503	SPACER	4	4	4	0.020
5	10291000	PLAIN WASHER M10	16	16	16	0.005
6	49990103	POLYETHYLENE PANEL	2	2	2	7.032
7	10121040	RESISTORX HEAD M10 x 40	8	8	8	0.028
8	10510238	UNI-NUT M10-SHORT P4008	8	8	8	0.040
* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUTED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING						

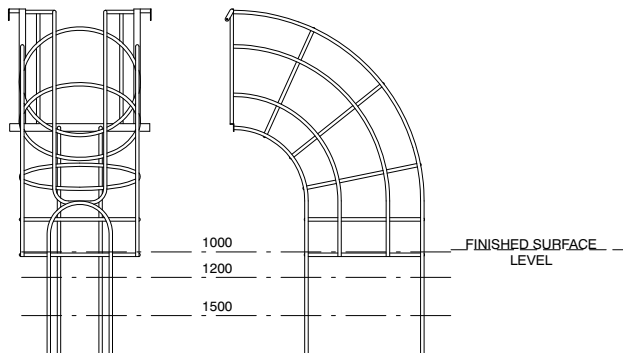
NOTE: SLOPED STEPS 45011040, 45011240, 45011540, 45111040, 45111240 & 45111540 INCLUDE THE FOLLOWING COMPONENTS

45011238	POLY STEP TREAD	3	4	5	2.500
10930600	DYNAFIX INSERT M6	12	16	20	0.350
10120616	RESISTORX BOLT M6x16	12	16	20	0.015
10290600	PLAIN WASHER M6	12	16	20	0.005



2 VERTICAL HOOPED CLIMBER : DG4

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45051210	VERTICAL HOOPED CLIMBER	1	78.000
2	10121030	RESISTORX HEAD M10 x 30	6	0.028
3	19024503	SPACER	2	0.020
4	10291000	PLAIN WASHER M10	6	0.005
5	SSGIL	GROUTING IN LUG	4	2.200



3 FIREMANS POLE 1500: DG6A FIREMANS POLE 1200: DG6B FIREMANS POLE 1000: DG6C

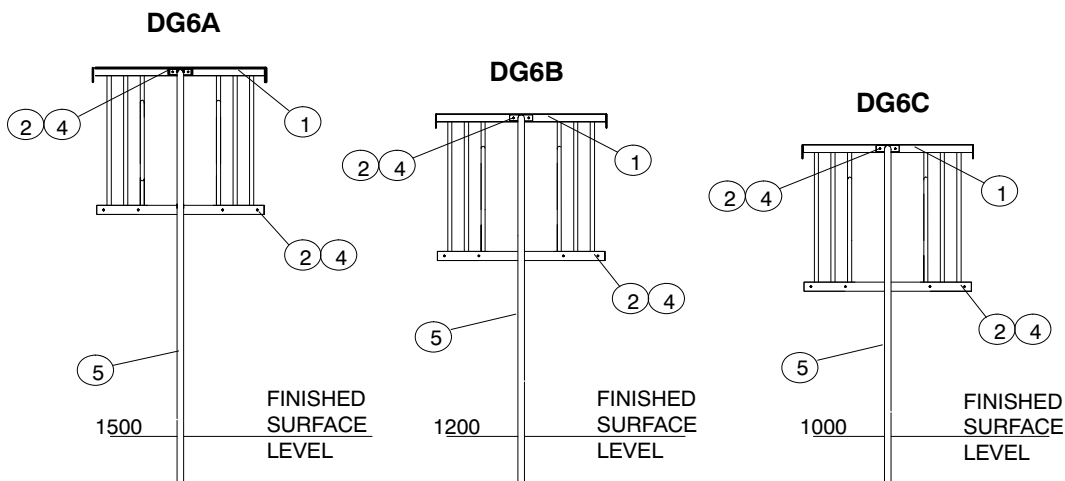
NOTES:

- i) Bolt frame (item 1) to H-frame
- ii) Bolt pole (item 5) to frame (item 1)
- iii) Tighten all fixings.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45011801	ENTRY FRAME	1	17.700
2	10121030	RESISTORX HEAD M10 x 30	8	0.028
3	19024503	SPACER	2	0.020
4	10291000	PLAIN WASHER M10	8	0.005

POLE - ITEM 5

Standard				
DG6A	45021510	2700 VERTICAL POLE	1	10.500
DG6B	45021210	2400 VERTICAL POLE	1	9.550
DG6C	45021010	2200 VERTICAL POLE	1	8.550
Loose Fill				
DG6A	45021810	3000 VERTICAL POLE	1	11.500
DG6B	45021510	2700 VERTICAL POLE	1	10.550
DG6C	45021210	2400 VERTICAL POLE	1	9.550

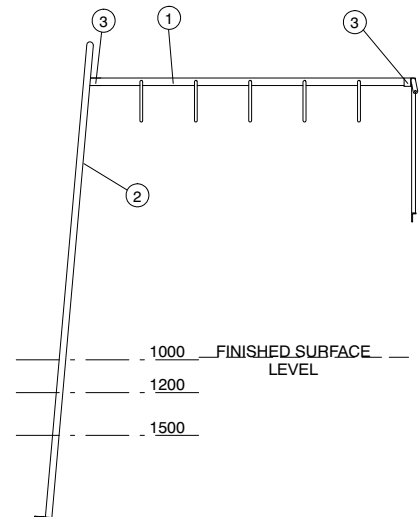
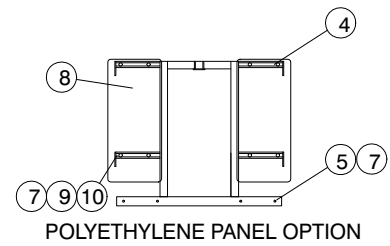
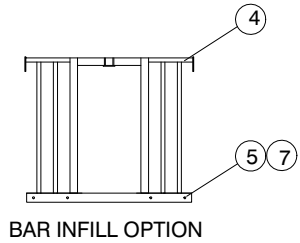


4 2.4m TRAPEZE & ARCH : DG9

NOTES:

- i) Bolt item 1 into support cup on item 2.
- ii) Bolt free end of item 1 into support cup on item 5.
- iii) Check item 1 is level.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45041000	2.4 MT FIXED TRAPEZE	1	15.200
2	45086001	MODIFIED PUB ARCH	1	34.400
3	10121030	RESISTORX HEAD M10 x 30	4	0.028
BAR INFILL				
4	45166001	BAR INFILL TRAPEZE ENTRY	1	16.000
5	10121030	RESISTORX HEAD M10 x 30	6	0.028
6	19024503	SPACER	2	0.020
7	10291000	PLAIN WASHER M10	6	0.005
POLYETHYLENE PANEL OPTION*				
4	45066001	TRAPEZE ENTRY FRAME	1	14.800
5	10121030	RESISTORX HEAD M10 x 30	8	0.028
6	19024503	SPACER	4	0.020
7	10291000	PLAIN WASHER M10	16	0.005
8	49990103	POLYETHYLENE PANEL	2	7.032
9	10121040	RESISTORX HEAD M10 x 40	8	0.028
10	10510238	UNI-NUT M10-SHORT P4008	8	0.040
* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING.				

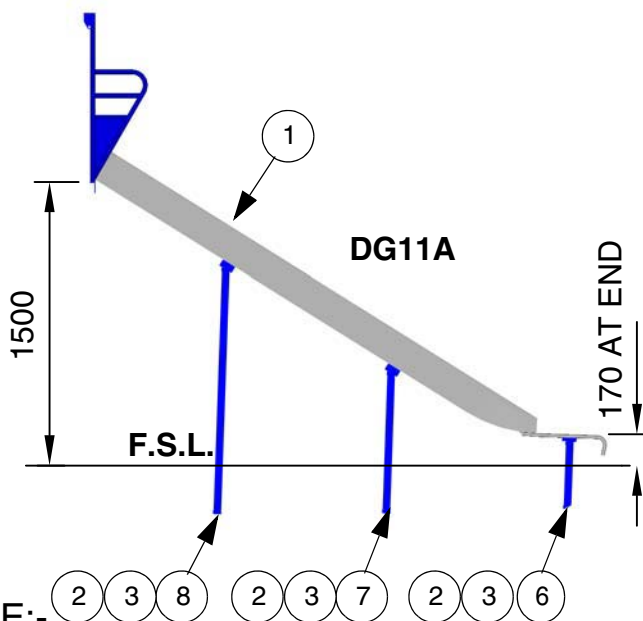
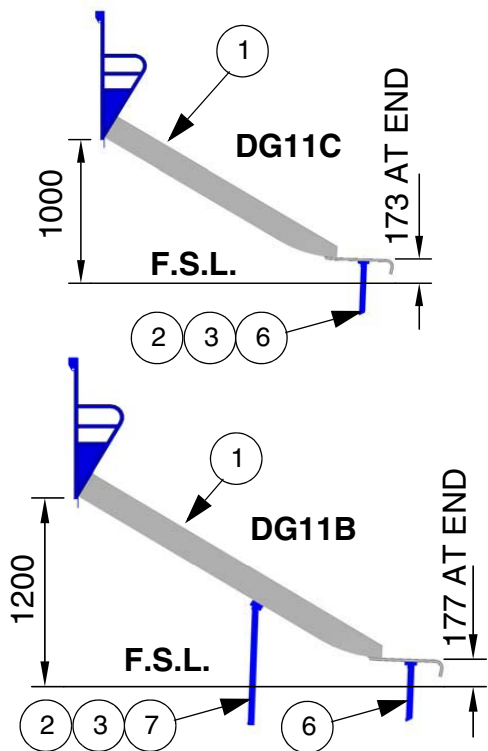
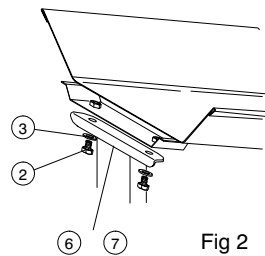
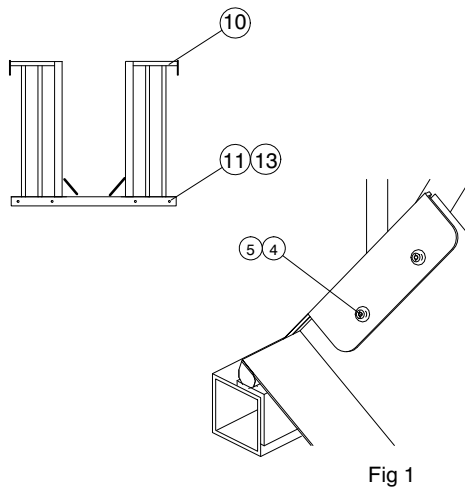


5 SINGLE WIDTH SLIDES : DG11

NOTES:

- i) Offer item 1 to item 10. Ensuring the top of item 1 rests on the cross member of item 10. The walls of item 1 must be positioned outside the gussets on item 10. (Fig 1).
- ii) Mark out foundations for items 6/7/8. Remove item 1 then excavate holes.
- iii) Bolt item 6, and if applicable items 7 & 8, to item 1. (Fig 2).
- iv) Repeat note (i). Secure item 1 using items 4 & 5. Ensure the **bolt** head is on the inside of the slide.
- v) Set position and pack up bases. Check item 1 ground clearance.
- vi) **Item 1 should taper towards the ground to allow watershed, maximum 1½°.**

ITEM	CODE	DESCRIPTION	A	B	C	WEIGHT (kg)
1	45031500	DG11A:S/W SLIDE - 1500	1			37.000
	45031200	DG11B:S/W SLIDE - 1200		1		30.000
	45031000	DG11C:S/W SLIDE - 1000			1	26.000
2	10251016	BOLT HEXAGONAL HEAD M10 x 16	6	4	2	0.020
3	10309999	HEAVY DUTY WASHER	6	4	2	0.011
4	10120610	BUTTON HEAD M6 x 10		4		0.004
5	10260600	NYLOC NUT M6 T TYPE		4		0.002
SLIDE FEET						
Standard						
6	60090701	SLIDE FOOT- 360mm	1	1	1	2.400
7	70032701	SLIDE FOOT-750mm	1	1		4.500
8	45039002	SLIDE FOOT-1300mm	1			8.000
Loose Fill						
7	70032701	SLIDE FOOT-750mm	1	1	1	4.500
8	45039001	SLIDE FOOT-1000mm	1	1		5.800
9	45039003	SLIDE FOOT-1700mm	1			10.500
BAR INFILL						
10	45067001	BAR INFILL S/W SLIDE ENTRY		1		20.000
11	10121030	RESISTORX HEAD M10 x 30		6		0.028
12	19024503	SPACER		2		0.020
13	10291000	PLAIN WASHER M10		6		0.005



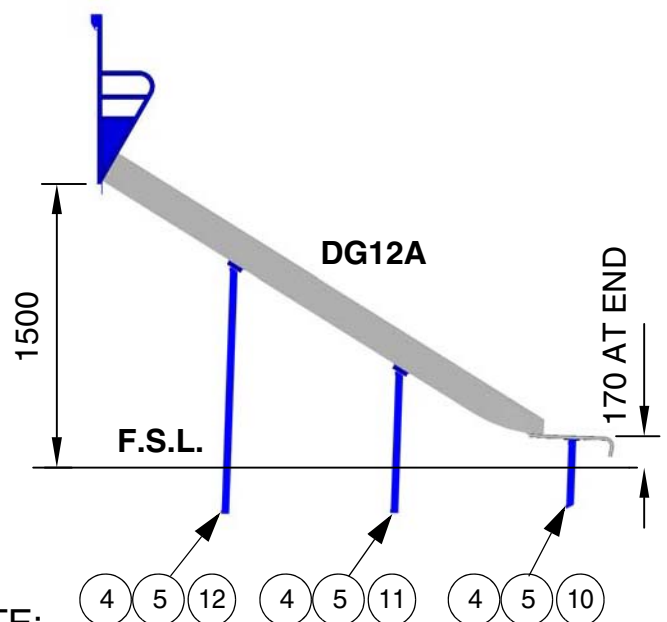
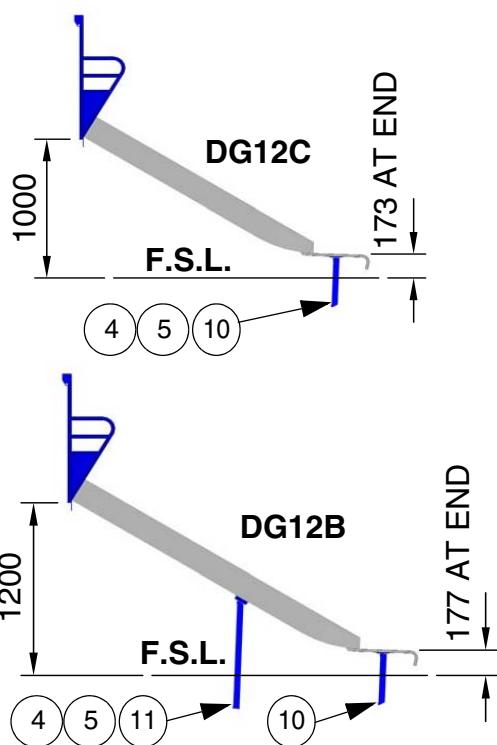
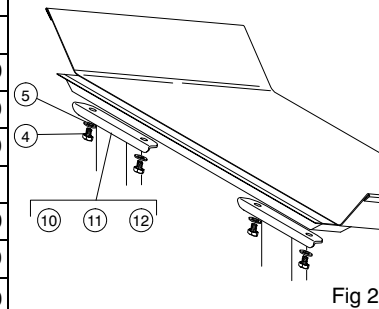
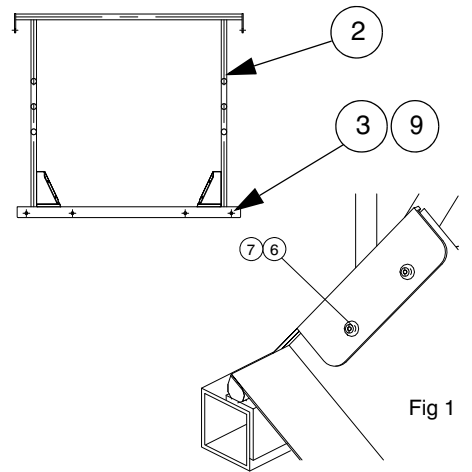
NOTE:- (2) (3) (8) (2) (3) (7) (2) (3) (6)
 MAX HEIGHT OVER SLIDE END = 200mm
 MIN GAP UNDER SLIDE END LIP = 25mm

6 DOUBLE WIDTH SLIDES : DG12

NOTES:

- i) Offer item 1 to item 2. Ensuring the top of item 1 rests on the cross member of item 2. The walls of item 1 must be positioned outside the gussets on item 2. (Fig 1).
- ii) Mark out foundations for items 10/11/12. Remove item 1 then excavate holes.
- iii) Bolt items 10/11/12 to item 1. (Fig 2).
- iv) Repeat note (i). Secure item 1 using items 6 & 7. Ensure the *bolt* head is on the inside of the slide.
- v) Set position and pack up bases. Check item 1 ground clearance.
- vi) **Item 1 should taper towards the ground to allow watershed, maximum 1½°.**

ITEM	CODE	DESCRIPTION	A	B	C	WEIGHT (kg)
1	45031510	D/W SLIDE - 1500	1			55.000
	45031210	D/W SLIDE - 1200		1		44.000
	45031010	D/W SLIDE - 1000			1	37.000
2	40020301	D/W SLIDE ENTRY		1		13.500
3	10121030	RESISTORX HEAD M10 x 30		6		0.028
4	10251016	BOLT HEXAGONAL HEAD M10 x 16	12	8	4	0.020
5	10309999	HEAVY DUTY WASHER	12	8	4	0.011
6	10120610	BUTTON HEAD M6 x 10		4		0.004
7	10260600	NYLOC NUT M6 T TYPE		4		0.002
8	19024503	SPACER		2		0.020
9	10291000	PLAIN WASHER M10		6		0.005
SLIDE FEET						
Standard						
10	60090701	SLIDE FOOT-360mm	2	2	2	2.400
11	70032701	SLIDE FOOT-750mm	2	2		4.500
12	45039002	SLIDE FOOT-1300mm	2			8.000
Loose Fill						
10	70032701	SLIDE FOOT-750mm	2	2	2	4.500
11	45039001	SLIDE FOOT-1000mm	2	2		5.800
12	45039003	SLIDE FOOT-1700mm	2			10.500



NOTE:-

MAX HEIGHT OVER SLIDE END = 200mm
 MIN GAP UNDER SLIDE END LIP = 25mm

7 1200 CURVED SLIDE : DG13

NOTES:

- i) Offer item 1 to item 2. (FIG.2).
- ii) Mark out foundations for items 9/10. Remove item 1 then excavate holes.
- iii) Bolt items 9, and 10, to item1. (FIG.3 & 4).
- iv) Repeat note (i). Secure item 1 using items 5,6,7 & 8. Ensure the **head** of the Resistorx fitting is on the inside of the platform.
- v) Set position and pack up bases. Check item 1 ground clearance. (FIG.4)
- vi) Item 1 should taper towards the ground to allow watershed.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45033000	1200 CURVED SLIDE	1	48.000
2	45065001	CURVED SLIDE ENTRY FRAME	1	18.000
3	19024503	SPACER	2	0.020
4	10121030	RESISTORX HEAD M10 x 30	6	0.028
5	10121020	RESISTORX HEAD M10 x 20	15	0.020
6	10291000	PLAIN WASHER M10	30	0.005
7	10271000	HEX NUT M10	9	0.020
8	10411000	ARMOUR RING M10	9	0.020
SLIDE FEET				
Standard				
9	45039000	SLIDE FOOT - 550mm	2	4.500
10	45039001	SLIDE FOOT - 1000mm	1	5.800
Loose Fill				
9	70032701	SLIDE FOOT-750mm	2	4.500
10	45039002	SLIDE FOOT-1300mm	1	6.000

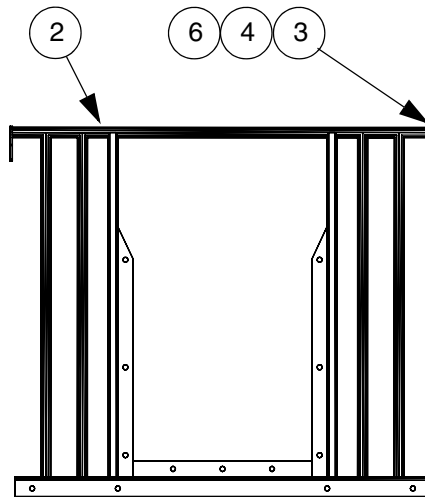


FIG.1

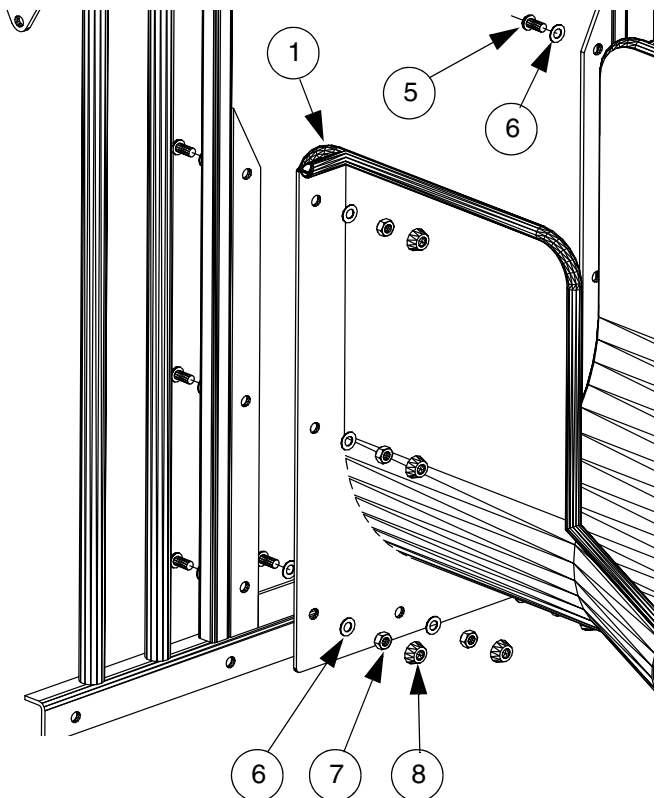


FIG.2

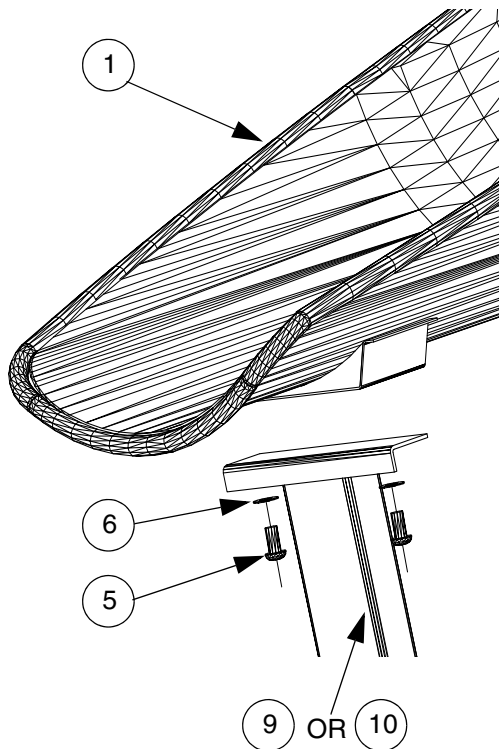


FIG.3

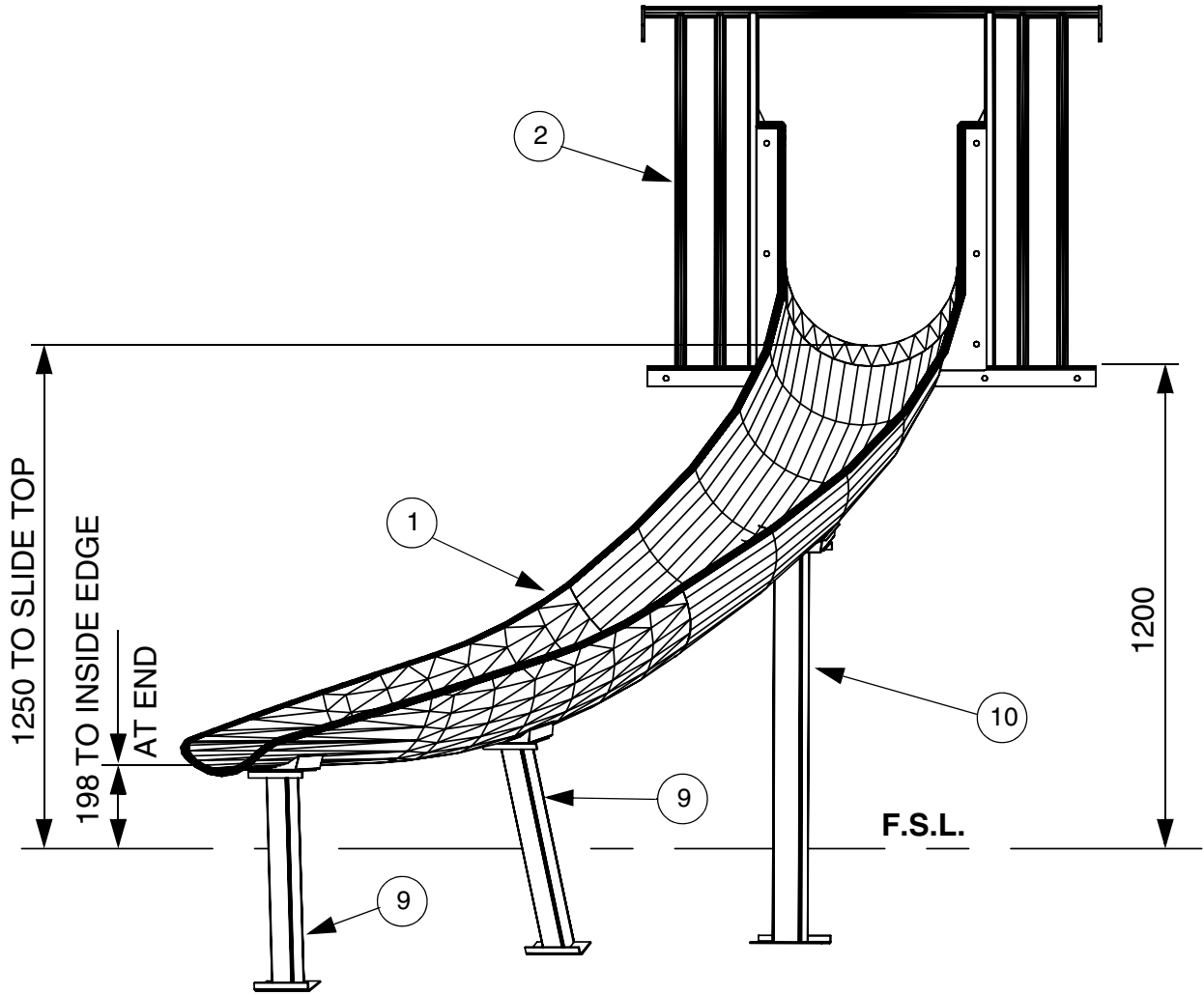
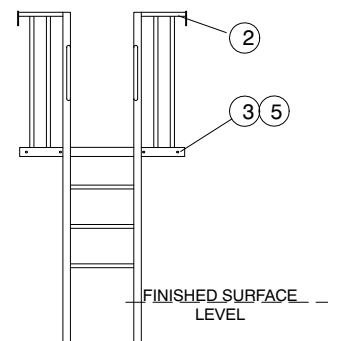


FIG.4

- 8 600 VERTICAL CLIMBER : DG16B
- 1000 VERTICAL CLIMBER : DG16C
- 1200 VERTICAL CLIMBER : DG16D

ITEM	CODE	DESCRIPTION	QTY DG16B	QTY DG16C	QTY DG16D	WT (kg)
BELOW GROUND EXTENSIONS						
1	SSGIL	GROUTING IN LUG	2	2	2	2.200
BAR INFILL						
2	45110630	BAR INFILL 600 VERTICAL CLIMBER.	1			25.000
	45111030	BAR INFILL 1000 VERTICAL CLIMBER.		1		26.000
	45111230	BAR INFILL 1200 VERTICAL CLIMBER.			1	27.000
3	10121030	RESISTORX HEAD M10 x 30	6	6	6	0.028
4	19024503	SPACER	2	2	2	0.020
5	10291000	PLAIN WASHER M10	6	6	6	0.005



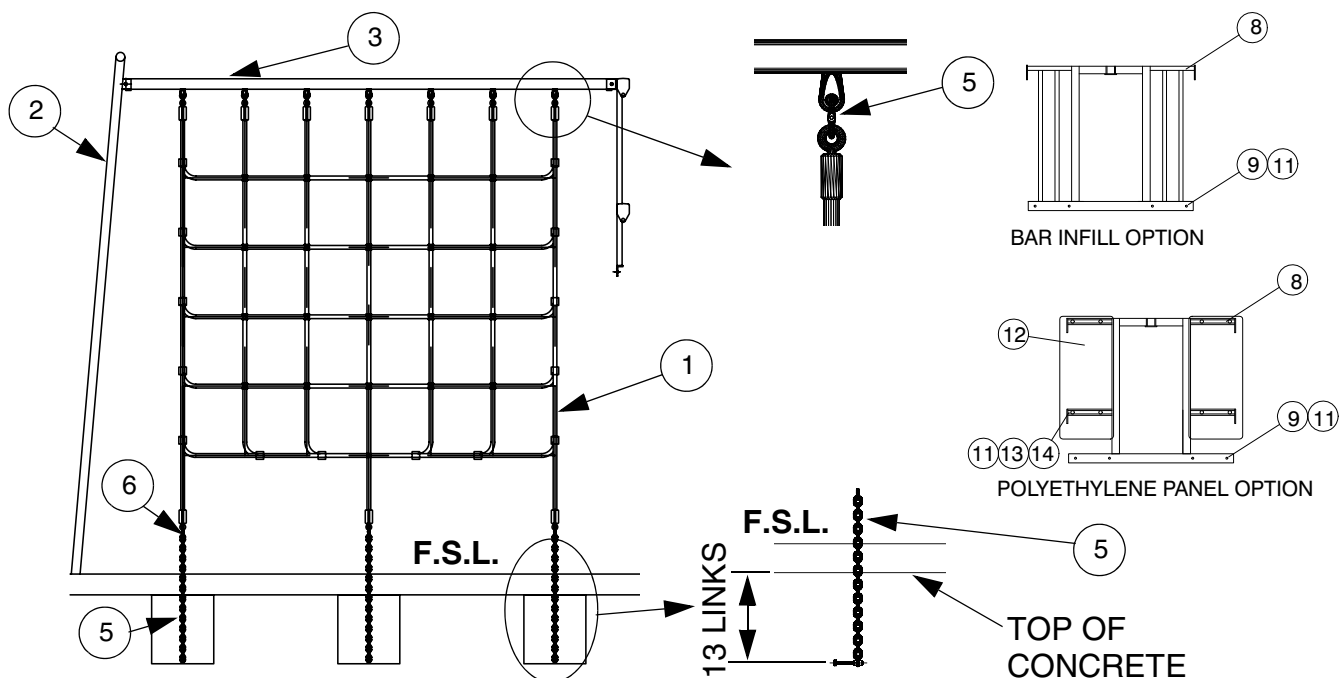
9 ROPE WALL CLIMBER 1500 : DG22A

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45043070	TWIST CLIMBER ROPE-1500	1	15.000
2	45086001	MODIFIED PUB ARCH	1	34.400
3	45043072	CLIMBER BEAM	1	12.000
4	10121030	RESISTORX HEAD M10 x 30	4	0.028
5	38008027	GROUND FIXING CHAIN ASSY	3	1.500
6	15715000	COUPLING LINK	10	0.100
7				
BAR INFILL OPTION				
8	45166001	BAR INFILL TRAPEZE ENTRY	1	16.000
9	10121030	RESISTORX HEAD M10 x 30	6	0.028
10	19024503	SPACER	2	0.020
11	10291000	PLAIN WASHER M10	8	0.005
POLYETHYLENE PANEL OPTION*				
8	45066001	TRAPEZE ENTRY FRAME	1	14.800
9	10121030	RESISTORX HEAD M10 x 30	8	0.028
10	19024503	SPACER	4	0.020
11	10291000	PLAIN WASHER M10	16	0.005
12	49990103	POLYETHYLENE PANEL	2	7.032
13	10121040	RESISTORX HEAD M10 x 40	8	0.028
14	10510238	UNI-NUT M10-SHORT P4008	8	0.040

* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING.

NOTES:

- i) Seat item 3 into the support cup, on item 2. Secure with item 4.
- ii) Offer free end into the support cup on item 8. Secure with item 9
- iii) Check item 3 is level.
- iv) Suspend the Ground Fixing Chains (item 5) from the appropriate eye fixings on the Climber Beam vertically over the foundation holes. Ensure that at least 13 chain links are encased in the concrete to provide a secure fixing, with the Hex. Bolt at the bottom of the hole. This will leave at least 14 links extended above the F.S.L. to allow subsequent adjustment of the Twist Climber Rope. Stake in position to ensure chain stays vertical during pouring of concrete.
- v) When concrete has cured attach Twist Climber Rope (item 1) to Beam (item 3) using coupling (item 6).
- vi) Tension Twist Climber Rope (item 1) by connecting to the Ground Chain Assembly (item 5) with the Coupling (item 6). Remove all excess links before connecting.



10 ROPE WALL CLIMBER 1200 : DG22B

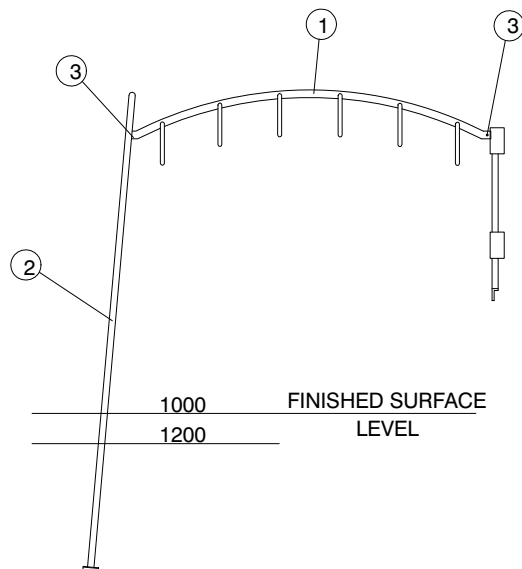
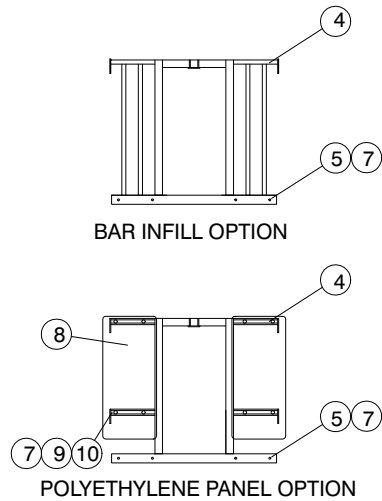
This unit comprises of items two to six and, eight to fourteen of DG22A plus Twist Climber Rope-1200 Pt.No. 45043060.

11 2.4m ARCHED TRAPEZE : DG25

NOTES:

- i) Bolt item 1 into support cup on item 2
- ii) Bolt free end of item 1 into support cup on item 4.
- iii) Check item 1 is level.

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45041051	2.4 MT ARCHED TRAPEZE	1	15.000
2	45086001	MODIFIED PUB ARCH	1	34.400
3	10121030	RESISTORX HEAD M10 x 30	4	0.028
BAR INFILL				
4	45166001	BAR INFILL TRAPEZE ENTRY	1	16.000
5	10121030	RESISTORX HEAD M10 x 30	6	0.028
6	19024503	SPACER	2	0.020
7	10291000	PLAIN WASHER M10	6	0.005
POLYETHYLENE PANEL OPTION*				
4	45066001	TRAPEZE ENTRY FRAME	1	14.800
5	10121030	RESISTORX HEAD M10 x 30	8	0.028
6	19024503	SPACER	4	0.020
7	10291000	PLAIN WASHER M10	16	0.005
8	49990103	POLYETHYLENE PANEL	2	7.032
9	10121040	RESISTORX HEAD M10 x 40	8	0.028
10	10510238	UNI-NUT M10-SHORT P4008	8	0.040
<p>* THE POLYETHYLENE PANEL INDICATED IS AN EXAMPLE ONLY AND MAY BE SUBSTITUED FOR ONE OF THE OTHER PANELS SHOWN IN APPENDIX A. REFER TO THE SPECIFIC COMPONENT LAYOUT DRAWING.</p>				



12 SCRAMBLER ROPE CLIMBER : DG24

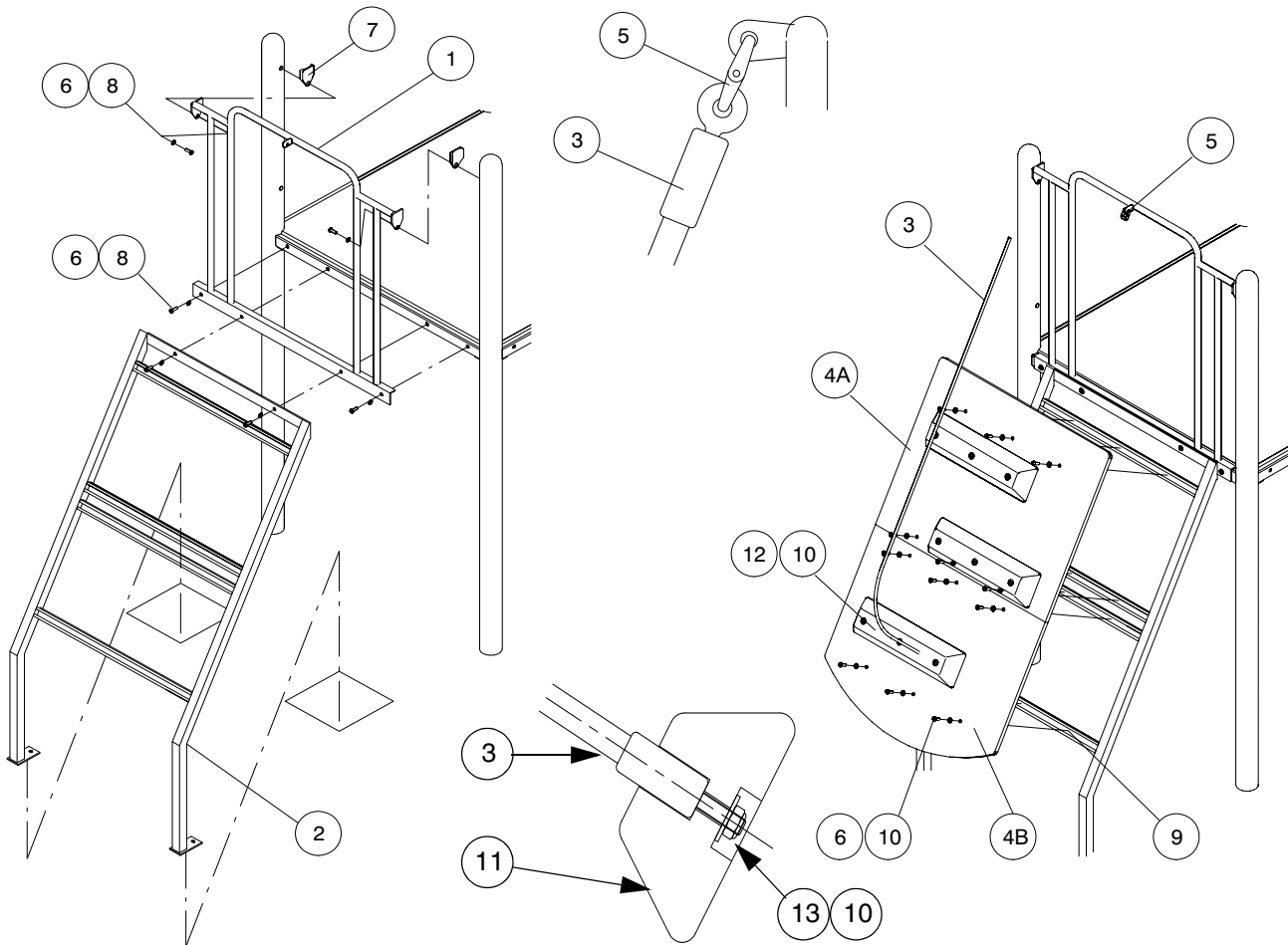
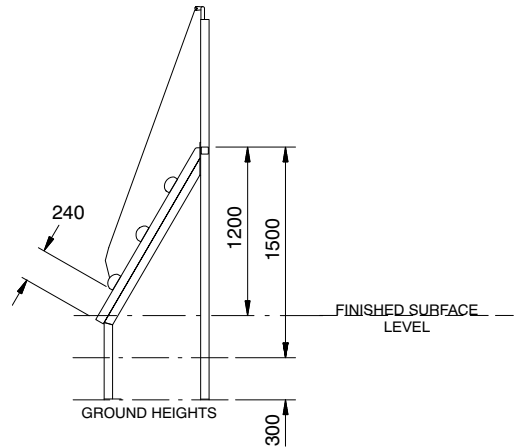
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45011602	SCRAMBLER ENTRY FRAME	1	13.000
2	45011601	SCRAMBLER SUPPORT FRAME	1	28.000
3	45011603	SCRAMBLER ROPE	1	1.000
4A	45011606A	CLIMBING PANEL - UPPER	1	13.330
4B	45011606B	CLIMBING PANEL - LOWER	1	6.500
5	15715000	COUPLING LINK	1	0.100
6	10121030	RESISTORX HEAD M10 x 30	18	0.028
7	19024503	SPACER	2	0.020
8	10291000	WASHER-PLAIN-M10	6	0.005
9	10510238	UNI-NUT M10-SHORT P4008	12	0.040
10	10309999	WASHER-HEAVY DUTY-M10	16	0.011
11	45011604	CLIMBER GRIP	1	3.000
12	10121040	RESISTORX HEAD M10 x 40	3	0.032
13	10261000	NYLOC NUT M10	1	0.012
BELOW GROUND EXTENSIONS				
14	SSGIL	GROUTING IN LUG	2	2.200

NOTE: CLIMBING PANEL UPPER 45011606A INCLUDES THE FOLLOWING COMPONENTS

CODE	DESCRIPTION	QTY	WEIGHT (kg)
45011605	TREAD	2	3.200

NOTES:

- i) Mark out holes and excavate.
- ii) Assemble item 1 & item 7 to posts (2-off item 6).
- iii) Attach item 1 & item 2 to the tower deck 4-off item 6).
- iv) Secure items 4A & 4B to item 2 (12-off items 6, 8 & 9).
- v) Attach item 3 to item 1 (1-off item 5)
- vi) Attach item 3 to item 11 (1-off items 13 & 10)
- vii) Attach item 11 to item 4B (3-off item 12 & 10)



13 SPIRAL SLIDE : DG26**NOTES:**

- i) To assemble item 1 refer to instructions supplied with unit.
- ii) Mark out and excavate hole for slide foundation.
- iii) Bolt item 2 to tower deck & posts, using item 3.
- iv) Bolt item 1 to item 2. The lower fixings are items 4,8,9 & 10 use backing plate supplied with item 1. Item 11 replaces the horizontal panel support supplied with item 1 (which may be discarded). The M12x30 socket head bolts, item 12, replace the 1/2"x1" machine bolts supplied with item 1.
- v) Do not fully tighten bolts.
- vi) Push item 1 close to item 2 and drill the two holes to accept item 6.
- vii) Check for level & square.
- viii) Insert item 6 , secure with items 5 & 7.
- ix) Tighten all bolts.
- x) Tap Armour rings onto M10 nuts with mallet.

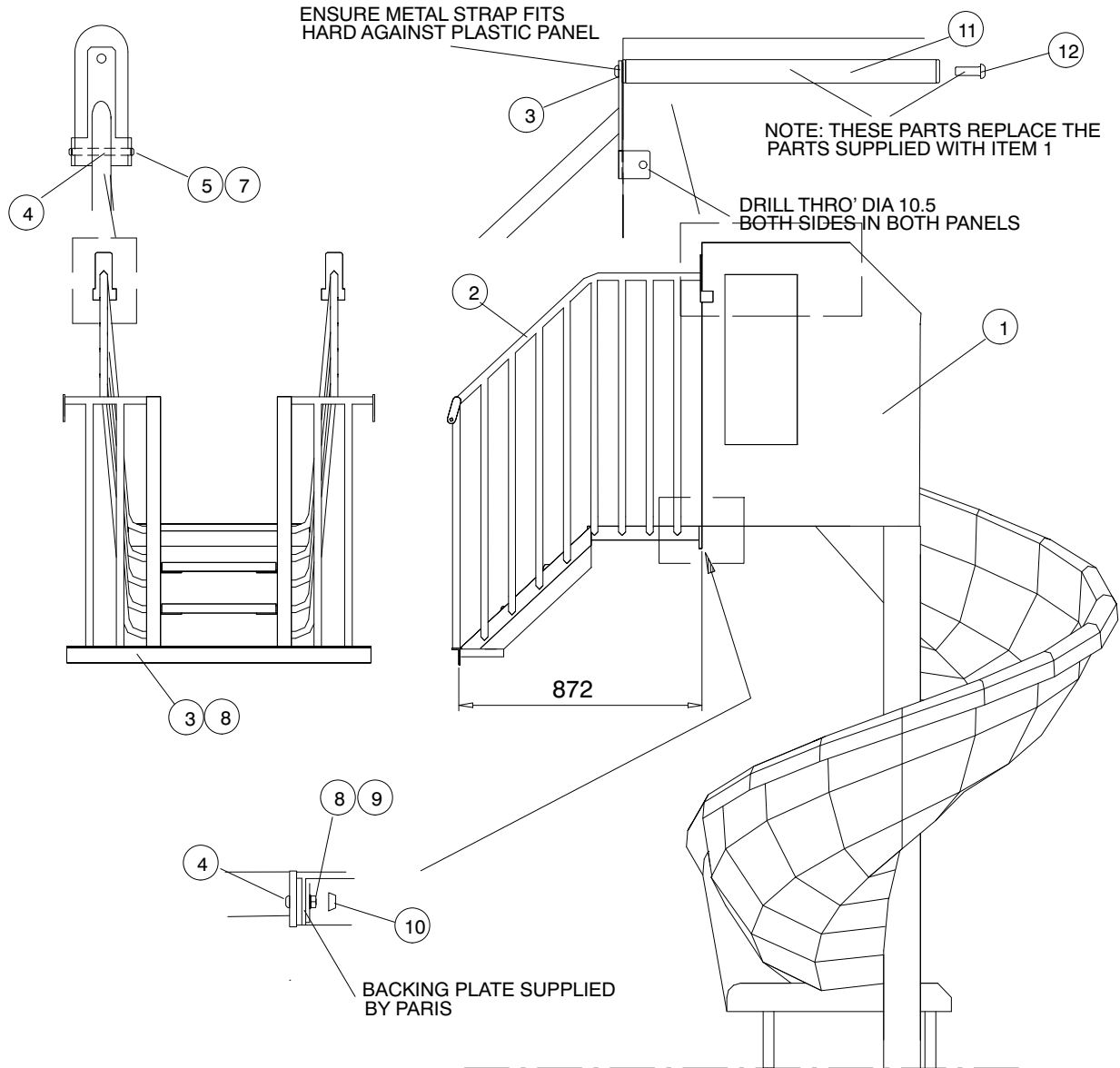
ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45035000	SPIRAL SLIDE & POLE	1	115.000
2	45068001	CONNECTOR-SPIRAL SLIDE	1	38.000
3	10121030	RESISTORX HEAD M10 x 30	10	0.028
4	10121040	RESISTORX HEAD M10 x 40	4	0.032
5	10120620	RESISTORX HEAD M6 x 20	4	0.005
6	45068002	M6 THREADED SLEEVE	2	0.038
7	10290600	WASHER-PLAIN-M6	4	0.002
8	10291000	WASHER-PLAIN-M10	10	0.002
9	10271000	HEX-NUT FULL M10	4	0.011
10	10411000	ARMOUR RING-M10	4	0.025
11	45068003	SUPPORT BAR	2	3.500
12	10121230	SOCKET BUTTON HEAD M12x30	2	0.035
13	19024503	SPACER	2	0.020

NOTE: CONNECTOR-SPIRAL SLIDE 450 68 001 INCLUDES THE FOLLOWING COMPONENTS

ADDITIONAL TOOLS REQUIRED:-
Drill, 6mm & 10.5mm drill bits, mallet.

ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT REQUIRED:-
Goggles

CODE	DESCRIPTION	QTY	WEIGHT (kg)
45011238	POLY STEP - STD	2	4.500
10930600	DYNAFIX INSERT M6	8	0.010
10120616	RESISTORX BOLT M6 x 16	8	0.007
10290600	WASHER-PLAIN-M6	8	0.002



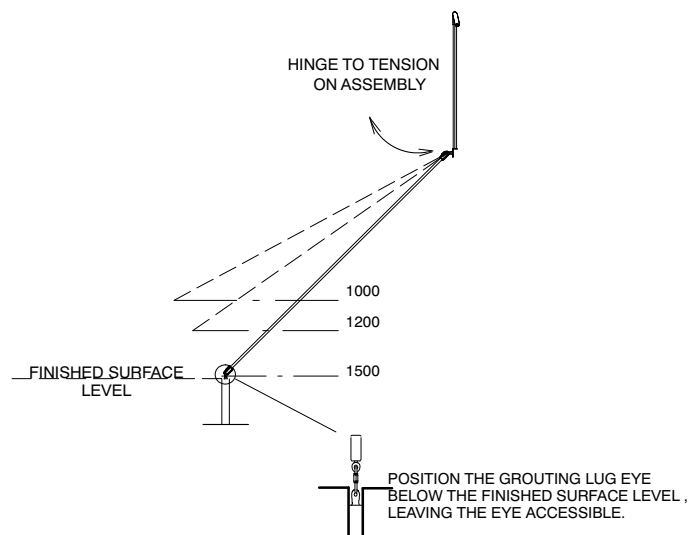
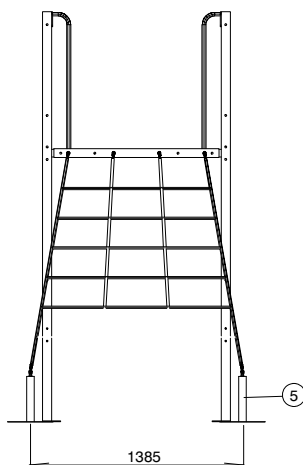
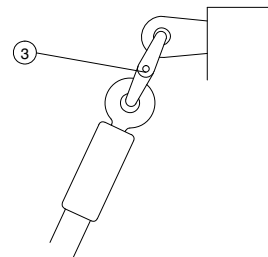
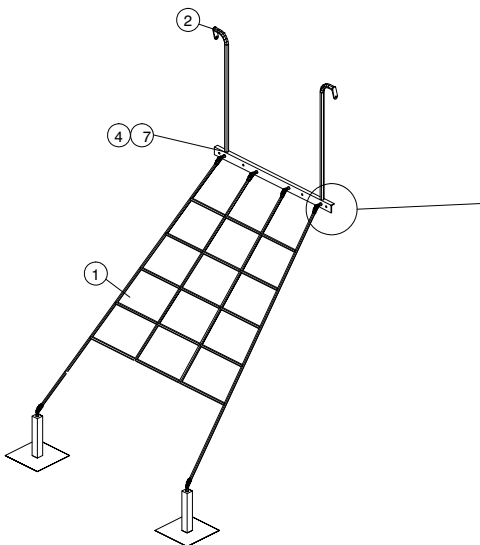
14 ROPE RAMP : DG27

CODE	DESCRIPTION
DG27A	1500 ROPE RAMP
DG27B	1200 ROPE RAMP
DG27C	1000 ROPE RAMP

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45011701	RAMP ROPE	1	8.000
2	45011703	ROPE RAMP ENTRY FRAME	1	8.500
3	15715000	COUPLING LINK	6	0.100
4	10121030	RESISTORX HEAD M10 x 30	6	0.028
5	45043063	TWIST CLIMBER GROUTING LUG	2	3.600
6	19024503	SPACER	2	0.020
7	10291000	PLAIN WASHER M10	6	0.002
EXTENSIONS				
3	15715000	COUPLING LINK	2	0.100
8	45043083	300mm ROPE EXTENSION	2	0.500

NOTES:

- i) Secure top fixing positions on item 2 only to the posts using 2-off items 4,6 & 7.
- ii) If applicable connect item 8 to item 1.
- iii) Mark out & excavate holes for item 5 noting the setting dimensions. Pull the base of item 1 out to minimise sagging on the lowest strand..
- iv) To ease assembly of item 1 to item 2, gently hinge the lower section of item 2 forwards. Attach item 1 to item 2 using item 3.
- v) Secure bottom fixing positions on item 2 to the tower deck using 4-off items 4 & 7. The ramp may then be pulled tight with the tightening of the lower section of item 2 back against the tower deck. (Take care not to over tension so as pre-stresses are introduced)
- vi) To remove the rope ramp, undo the bottom fixing positions on item 2 and 'pivot' outwards to lose any tension in item 1, then remove item 3.



15 STAINLESS STEEL SPIRAL SLIDE : DG28

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45037000	ST.ST.SPIRAL SLIDE	1	192.000
2	45068501	CONNECTOR-ST.ST.SPIRAL	1	96.000
3	45037003	PANEL-ST.ST.SPIRAL	1	1.800
4	10931000	PLAIN TEE-NUT M10	9	0.005
5	10291000	WASHER-PLAIN-M10	26	0.002
6	10309999	HEAVY DUTY WASHER	2	0.011
6A	10301200	SH/PROOF WASHER	9	0.002
7	10251016	BOLT HEXAGONAL HEAD M10 x 16	2	0.020
8	10121030	RESISTORX HEAD M10 x 30	6	0.028
9	10121040	RESISTORX HEAD M10 x 40	11	0.032
10	10121020	RESISTORX BOLT M10 x 20	9	0.022
11	19024503	SPACER	2	0.020

BELOW GROUND EXTENSIONS

Standard				
12	60090701	SLIDE FOOT-360mm	1	2.400
13	45068502	SUPPORT-ST.SPIRAL LINK	2	7.260
14	45037001	SUPPORT-ST.SPIRAL SLIDE	1	3.710
Loose Fill				
12	70032701	SLIDE FOOT-750mm	1	2.400
13	45068503	EXT.SUPP-ST.SPIRAL LINK	2	8.200
14	45037002	EXT.SUPP-ST.SPIRAL SLIDE	1	4.640

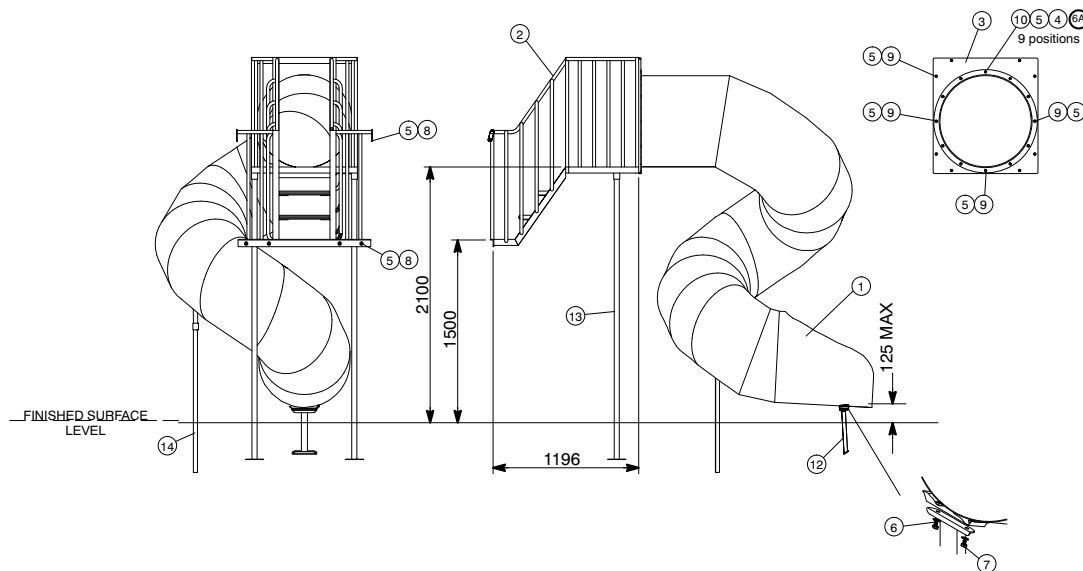
NOTE: CONNECTOR-ST. STL. SRIRAL SLIDE 45068501 INCLUDES THE FOLLOWING COMPONENTS

CODE	DESCRIPTION	QTY	WEIGHT (kg)
45011238	POLY STEP-STD	2	4.500
45011237	ALU TREAD - STD STEPS	2	1.310
10930600	DYNAFIX INSERT M6	8	0.010
10120616	RESISTORX BOLT M6 x 16	8	0.007
10290600	WASHER-PLAIN-M6	8	0.002

NOTES:

- i) Secure item 3 to item 2, at the corners, using 8 off items 9 & 5.
- ii) Mark out and excavate the foundation holes for item 12.
- iii) Screw item 12 fully into the sockets located on the underside of item 2.
- iv) Secure the sub assembly to a tower deck & posts using item 8.
- v) Level and plumb the unit.
- vi) Set the unit in concrete and allow to cure before connecting the slide.
- vii) While the concrete cures, ensure the link has signs warning the public of the risk of injury.
- viii) Position item 1 in front of item 2 so that it can be rolled into the upright position.
- ix) Wrap a strap around the section of item 1 nearest to item 2. Assistance, in the next step, may be gained by placing a chock under item 1. The height of the chock should equal the ground clearance,
- x) With one person standing on item 2 and guiding item 1 with the strap, roll item 1 into the upright position with the exit section resting on the chock.
- xi) Locate item 1 to item 3 using items 9 & 5, initially in 3 places .
- xii) Mark out and excavate the holes for items 11 & 13.

- xiii) Scew item 13 fully into the socket on item 1.
- xiv) Secure item 11 to item 1 using 2 off items 7 & 6.
- xv) Level & plumb item 1. Note the ground clearance required.
- xvi) Secure item 1 to item 3 with items 4, 5, 6A & 10. Items 4 & 6A are located on the inside of item 3. Tighten the existing bolts item 9.
- xvii) Set the unit in concrete.



16 TRANSFER POINT : DG29

NOTES:

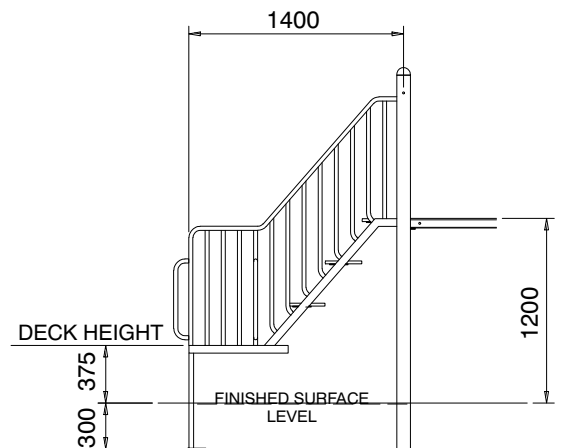
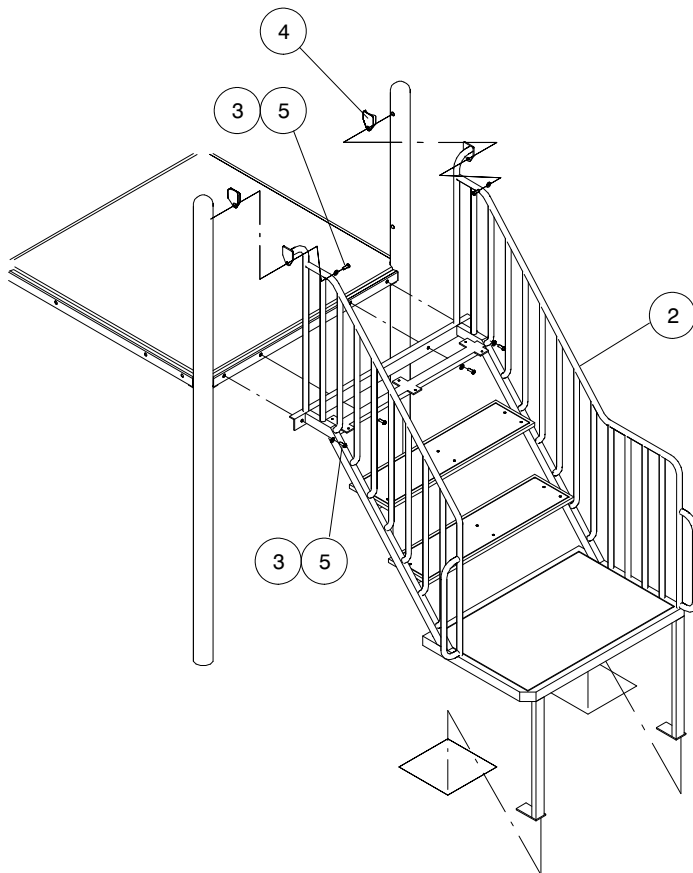
- i) Mark out holes and excavate.
- ii) Assemble item 2 to posts & tower deck (6-off items 3, 4 & 5).

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
BELOW GROUND EXTENSIONS				
1	SSGIL	GROUTING IN LUG	4	2.200

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
2	45045090	SPECIAL NEEDS TRANSFER LINK	1	87.000
3	10121030	RESISTORX HEAD M10 x 30	6	0.028
4	19024503	SPACER	2	0.020
5	10291000	WASHER-PLAIN-M10	6	0.005

NOTE: SPECIAL NEEDS TRANSFER LINK 45045090 INCLUDES THE FOLLOWING COMPONENTS

CODE	DESCRIPTION	QTY	WEIGHT (kg)
45045093	POLY STEP	3	4.500
10930600	DYNAFIX INSERT M6	18	0.010
10120616	RESISTORX BOLT M6 x 16	18	0.007
10290600	WASHER-PLAIN-M6	18	0.002

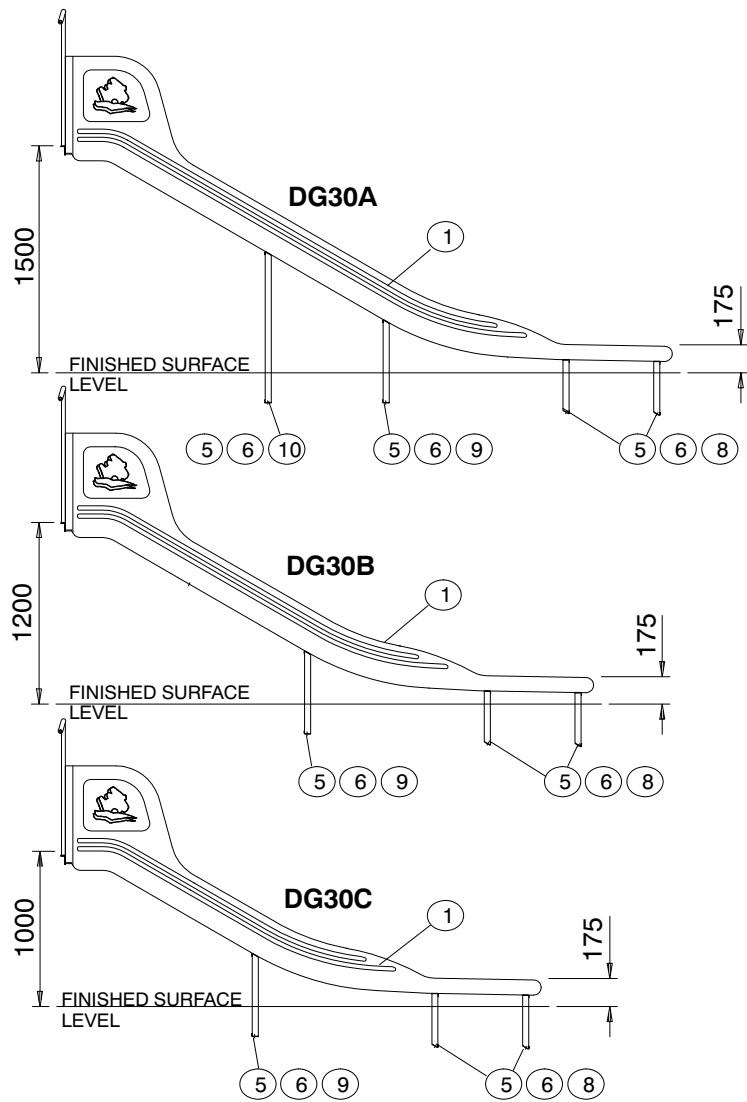
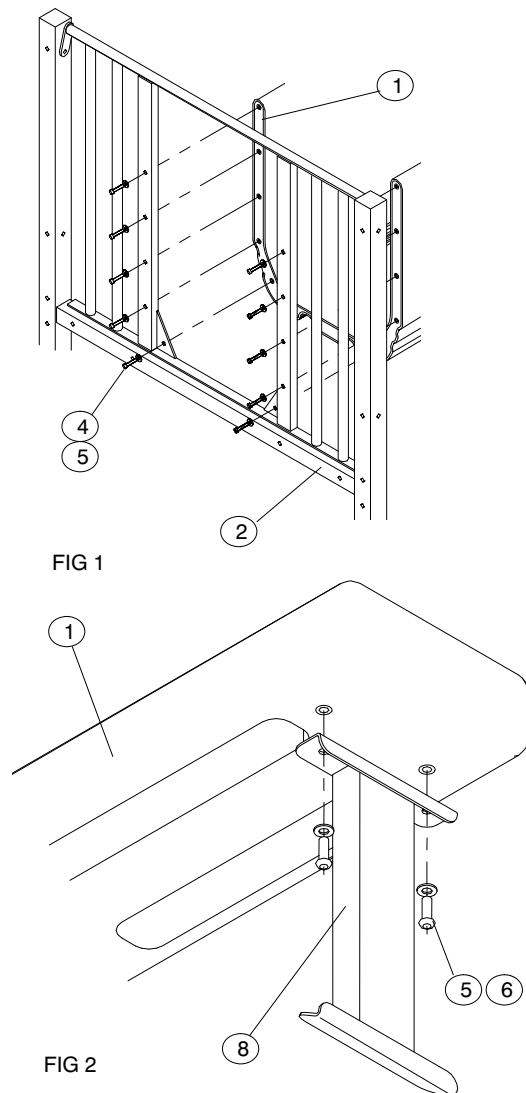
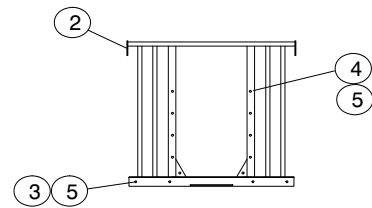


17 POLYETHYLENE SLIDE : DG30

ITEM	CODE	DESCRIPTION	A	B	C	WEIGHT (kg)
1	19021500	POLYETHYLENE SLIDE - 1500	1			73.000
	19021200	POLYETHYLENE SLIDE - 1200		1		65.000
	19021000	POLYETHYLENE SLIDE - 1000			1	45.000
2	45069001	POLYETHYLENE SLIDE ENTRY		1		13.500
3	10121030	RESISTORX HEAD M10 x 30		6		0.028
4	10121040	RESISTORX HEAD M10 x 40		10		0.020
5	10291000	PLAIN WASHER M10	24	22	22	0.005
6	10121020	RESISTORX HEAD M10 x 20	8	6	6	0.005
7	19024503	SPACER		2		0.020
SLIDE FEET						
Standard						
8	60090701	SLIDE FOOT-360mm		2		2.400
9	45039000	SLIDE FOOT-550mm		1		3.500
10	45039001	SLIDE FOOT-1000mm	1			5.800
Loose Fill						
8	70032701	SLIDE FOOT-750mm		2		4.500
9	45039001	SLIDE FOOT-1000mm		1		5.800
10	45039002	SLIDE FOOT-1300mm	2			6.000

NOTES:

- i) Offer item 1 to item 2, ensuring item 1 rests on the lip of item 2.
- ii) Mark out the foundation holes for items 8, 9 & 10. Remove item 1, then excavate holes.
- iii) Bolt items 8, 9 & 10 to item 1 using items 5 & 6. (Fig 2)
- iv) Repeat note (i). Secure item 1 to item 2 using items 4 & 5 (Fig 1)
- v) Set position and pack up bases. Check 175mm dimension at slide run-out on item 1.
- vi) Item 1 should taper towards the ground to allow watershed.

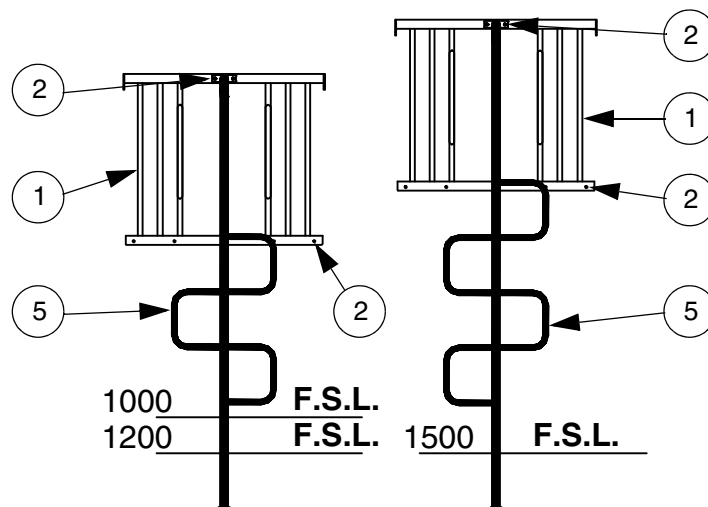


18 ANTENNA ACCESS 1500 : DG31A
ANTENNA ACCESS 1000/1200 : DG31B

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45011801	ENTRY FRAME-ANTENNA ACCESS	1	17.700
2	10121030	RESISTORX HEAD M10 x 30	8	0.028
3	19024503	SPACER	2	0.020
4	10291000	PLAIN WASHER M10	8	0.005
ANTENNA - ITEM 5				
DG31A	45011805	POLE-1500 ANTENNA	1	28.600
DG31B	45011803	POLE-1000/1200 ANTENNA	1	26.600
BELOW GROUND EXTENSIONS				
6	SSGIL	GROUTING IN LUG	1	2.200

NOTES:

- i) Bolt frame (item 1) and spacers (items 3) to posts and tower deck using items 2 & 4.
- ii) Bolt antenna (item 5) to frame (item 1).
- iii) Tighten all fixings.

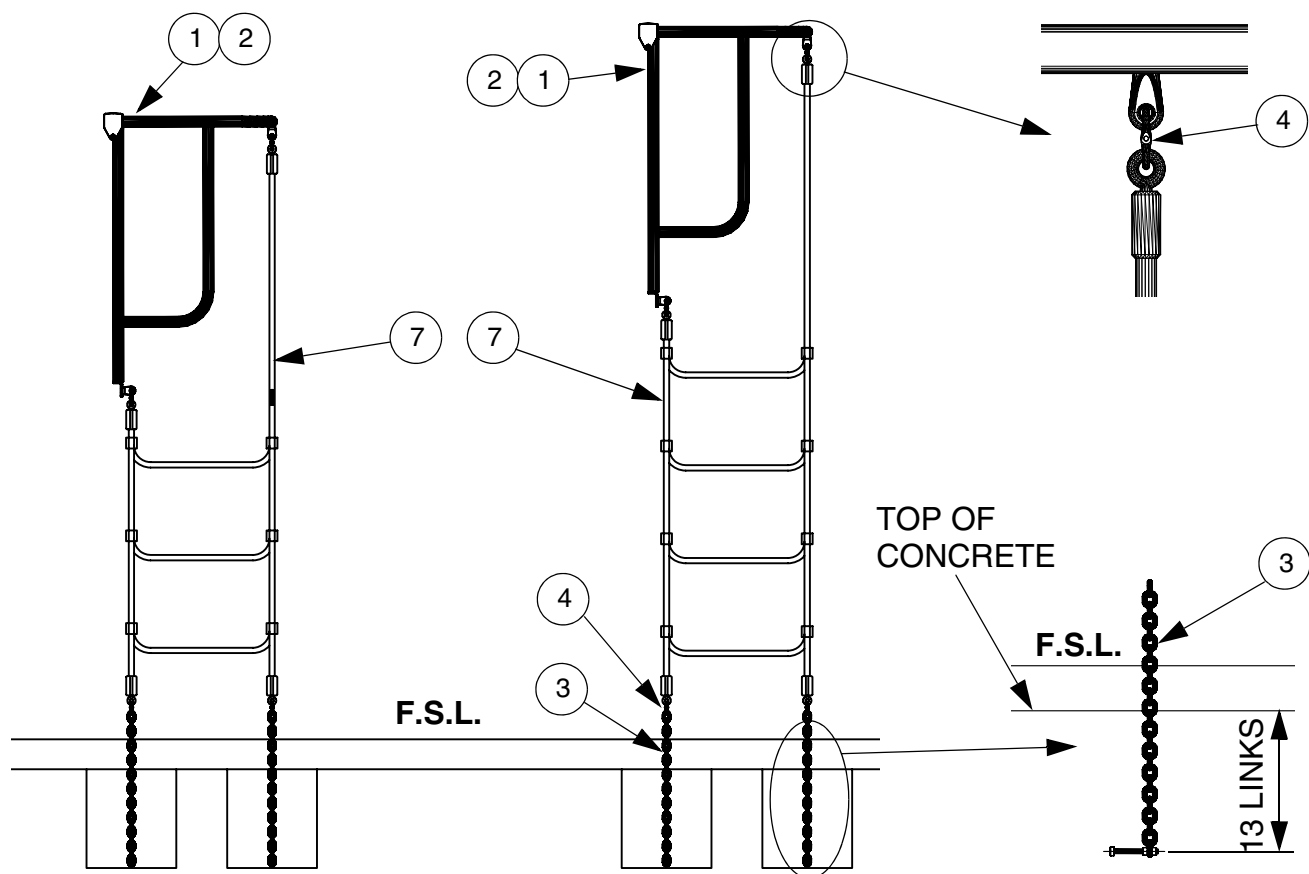


19 VERTICAL ROPE LADDER 1500 : DG32A VERTICAL ROPE LADDER 1200 : DG32B

ITEM	CODE	DESCRIPTION	QTY	WEIGHT (kg)
1	45011901	ENTRY FRAME	1	13.800
2	10121030	RESISTORX HEAD M10 x 30	6	0.028
3	38008027	GROUND FIXING CHAIN ASSY	2	1.500
4	15715000	COUPLING LINK	4	0.100
5	19024503	SPACER	2	0.020
6	10291000	PLAIN WASHER M10	6	0.005
ROPE - ITEM 7				
DG32A	45011905	1500 ROPE LADDER	1	18.200
DG32B	45011903	1200 ROPE LADDER	1	17.000

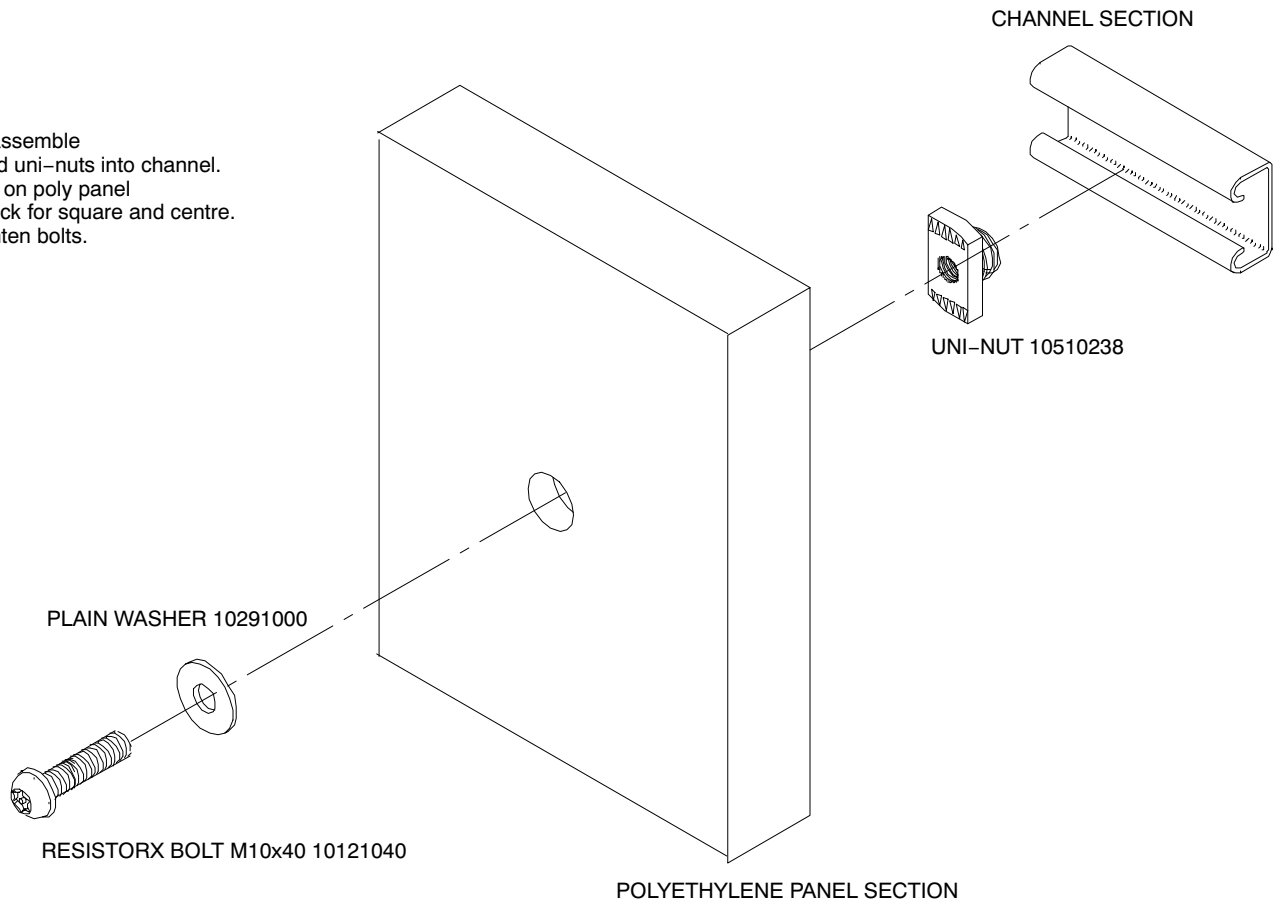
NOTE:

- i) Bolt frame (item 1) and spacers (items 5) to posts and tower deck using items 2 & 6.
- ii) Suspend the Ground Fixing Chains (item 3) from the appropriate eye fixings on the Entry Frame vertically over the foundation holes. Ensure that at least 13 chain links are encased in the concrete to provide a secure fixing, with the Hex. Bolt at the bottom of the hole. This will leave at least 14 links extended above the F.S.L. to allow subsequent adjustment of the Rope Ladder. Stake in position to ensure chain stays vertical during pouring of concrete.
- iii) When concrete has cured attach Rope Ladder (item 7) to Entry Frame (item 1) using coupling (item 4).
- iv) Tension Rope Ladder (item 7) by connecting to the Ground Chain Assembly (item 3) with the Coupling (item 4). Remove all excess links before connecting.



Appendix A: POLYETHYLENE PANEL ASSEMBLY

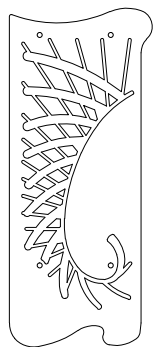
To assemble
Load uni-nuts into channel.
Bolt on poly panel
Check for square and centre.
Tighten bolts.



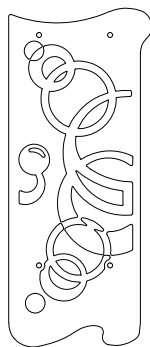
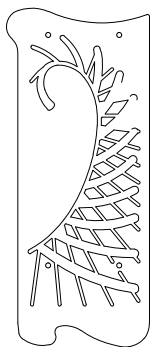
1 POLYETHYLENE PANEL IDENTIFICATION

1.1 ENTRY POLY PANELS USED ON ACCESS AND LINKING COMPONENTS

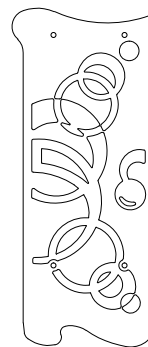
CODE	PT.No.	DESCRIPTION	QTY	WEIGHT (kg)
AG103	49990103	'SPYRA' ENTRY POLY PANEL	SET	7.032
AG113	49990113	'LINX' POLY PANEL	SET	7.032



AG103

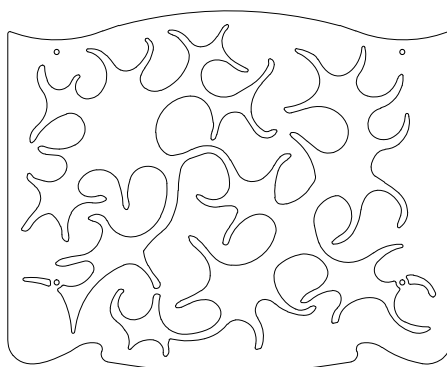


AG113



1.2 UPPER BARRIER USED ON EB8 BARRIER

CODE	PT.No.	DESCRIPTION	QTY	WEIGHT (kg)
AG055	49990105	'MORPHIS' UPPER POLY PANEL	1	11.735



AG055