

Technical Information:

Number of people required for assembly: 2 to include a good handyman

Guide time for assembly: approx 6-8 hours for the full unit

The Arundel needs 3 bags of instant mix concrete (post-Crete) or similar allowing 1/2 bag per hole. (available from most hardware shops or builders merchants)

NOTE: USE THE DRILL BIT PROVIDED TO PRE-DRILL ALL THE SCREW HOLES TO AVOID SPLITTING THE TIMBER. You may want to use a countersink drill bit to give the screw holes a superior finish

Your climbing frame can be stored outside until you are ready to assemble the unit, we recommend storing it near the place you are looking to build it.

To allow trapped moisture to evaporate cut back the shrink wrap packaging but be careful not to lose any parts. Slight cracks may appear in the wood at any time after delivery, this is due to the natural working of the wood and is normal. If moisture is trapped under the plastic you will sometimes find mould spots present, this will wipe away and have no long term effects.

Contents:

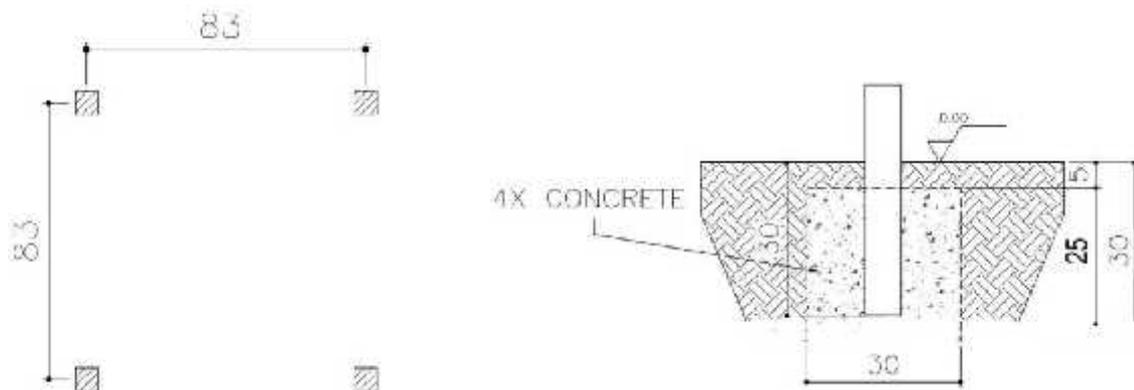
Packs Required:

1) Construct the Tower	JE2071/1
	JE2071/2
	JE2071/3
	JE2058 (sandpit)
2) Attach the Commando Net	JE2153
3) Attach the Swing beam	JE2550
4) Attach the slide	JE2515
5) Attach the swing seats	(boxed separately)

NB: Cracking will not affect the tower's structural stability. Surfaces of the wood have been planed but you may find small splinters around drill holes which can easily be sanded away.

Where to start:

Firstly dig the holes for the uprights: (Page 4)



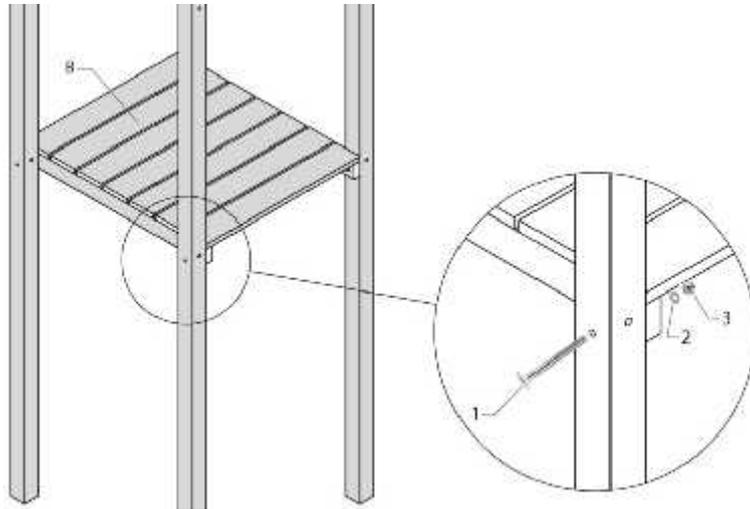
Lay your platform base on the ground at the chosen position. Using a spirit level find the highest corner, this will be your first hole. If the difference in height between one side of the platform and the other is greater than 75mm you should level off the ground or consider moving your frame to a more level place in the garden.

Take a 50mm slice of lawn and put it to one side for return later. Dig the first hole to 300mm deep and about 300mm square. (a useful note is to place the removed soil on to a plastic sheet to minimise clearing up afterwards) Move on to digging the next hole - use the tip below for getting the holes level. Once you have dug the corner holes then dig the final hole for the front central upright in the same way.

TIP: Digging all the holes to be level involves a simple trick using 2 equal balustrade pieces and a spirit level. Stand one balustrade upright in your first (measured) hole and the second upright in the next hole. Place your spirit level on top of these two pieces (if your level is not long enough then please use a straight piece of wood rested on top of the balustrades and then put the level on top of this). Adjust the depth of the second hole either by further digging or adding back some soil until your spirit level reads correctly. Once this hole is complete do the same to the other holes in turn. Always use the first hole as the reference point. When finished NO hole should be less than 300mm deep, if it is your ground is too steep and you need to level off the platform area. The reason for this is that your slide needs to be on a platform 1.5m (or 1.2m with some models) above the ground. If the height is more or less than this creates stress on the slide platform mount and in severe cases can lead to fracture of the slide at this point. A failure that would not be covered by warranty.

You may also find this video link helpful showing you how to prepare the holes:
<http://www.youtube.com/watch?v=bDqh-mwi0w8>

Building the Tower: (Page 5)

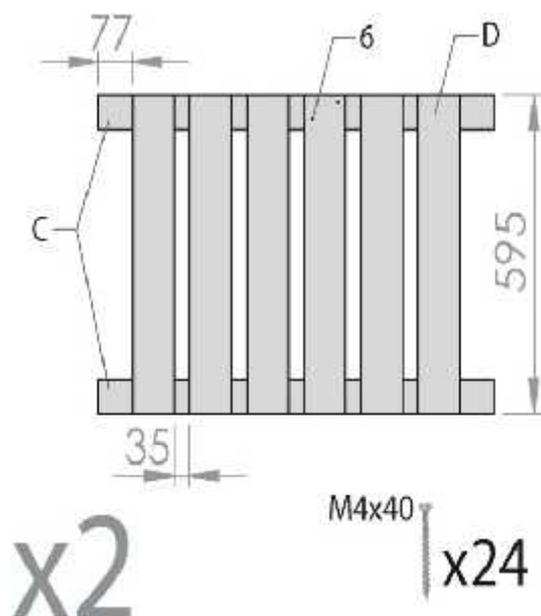


Building the tower is best accomplished lying on its side. Lay out the four uprights in pairs with their ends close to the holes you have prepared. Align the platform in the same direction as the slide will end up when you have finished, this then orients the uprights and their bolt holes.

The platform bolts pass through the holes closest to the ground, the holes slightly higher up are for mounting the accessories. Stand the platform upright and bolt the platform to the two uprights lying on the ground. Repeat with the other two uprights with one end resting on the ground and the other ends pointing towards the sky. Tighten the bolts firmly but at this stage do not over do the tightness.

Attaching the Balustrades: (Page 6)

Pre-build your balustrades on the ground as squarely as possible rather than trying to build them on the tower frames. You will notice the screws are diagonally offset. The purpose of this is to reduce splits and create a stronger fixing, by not having screws running in line along the grain of the wood.

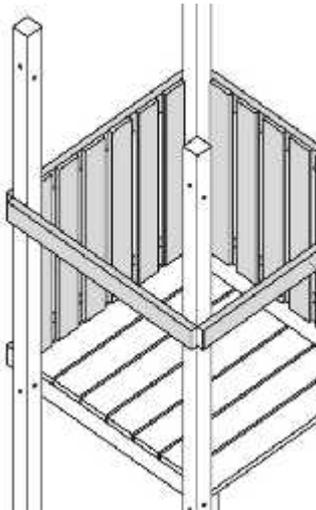


TIP: Attach the two outside left & right balustrade rails first, following the measurements in the diagram. Only use one screw at each end for now.

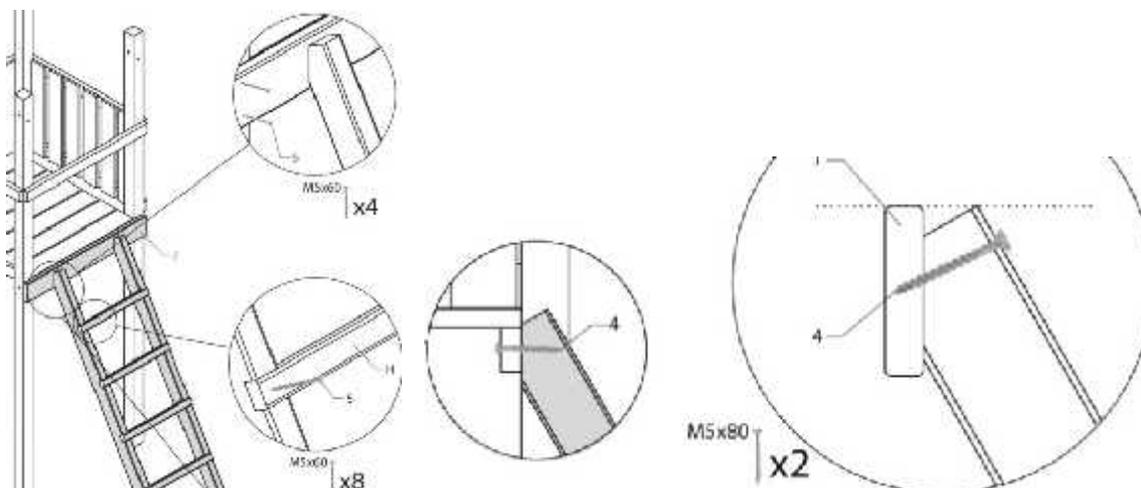
Then check for squareness, to do this measure the diagonal distance from top left to bottom right of the finished balustrade. This should measure the same as the diagonal distance from the bottom left to top right. If not adjust the frame to make both measurements the same. Now fit the other two screws in to each part D already fixed. You can now proceed and fix all remaining part D's.

TIP: To ensure the distance between each balustrade rail is kept the same, you may find it easier to make two small pieces of wood 35mm wide, to use as spacers top and bottom.

Before attaching the balustrades to the tower you will need to decide on the layout of your accessories. Then attach the balustrades to the sides of the platform you want to close off. You will then need to attach the further support rails to line up with the balustrades.

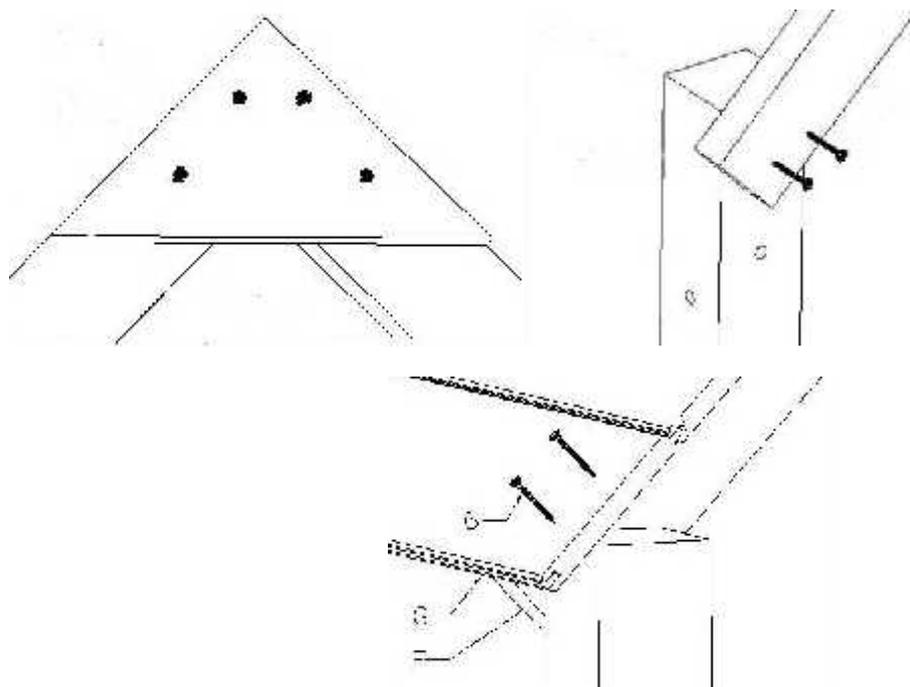


Attaching the Ladder: (Page 7)



Attach parts H to I to make up the ladder. This can now be attached to part j which in turn is attached to the tower uprights.

Attaching the Roof: (Page 8)

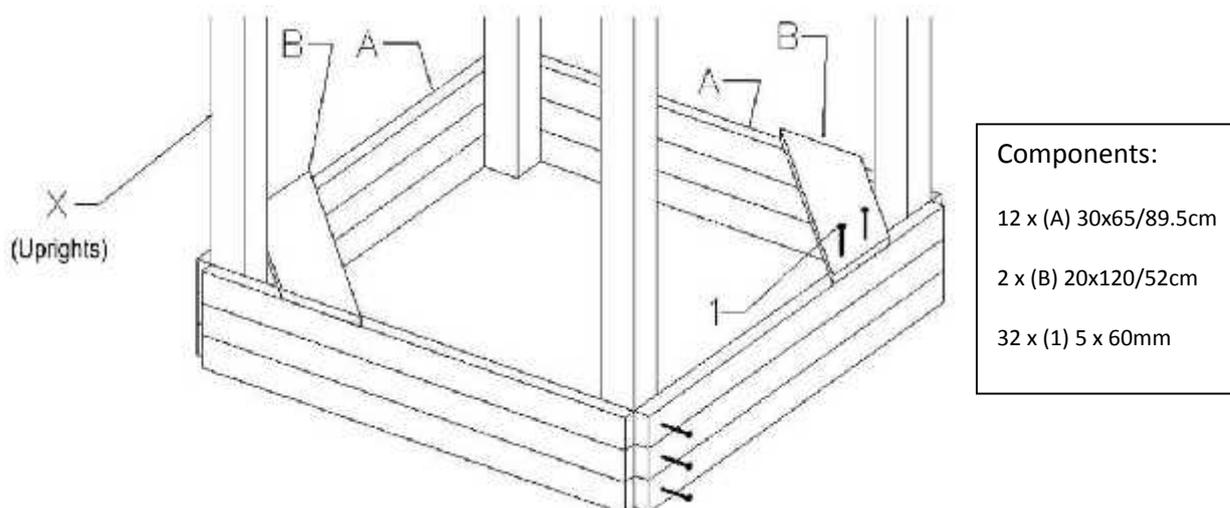


We recommend building the roof structure while you have the tower laying on the floor. Prop the tower off the ground slightly using either bricks or the swing beam (whatever available). Build the two roof structure supports using the Gables (E) and the triangles (G). Make sure the two angled ends of the rafters are butted up to each other before fixing the triangle plate. This forms the rafter truss - try to make sure both sides are identical. Now attach these to the uprights, please note the edge should be slightly above the end of the uprights. Before fixing the trusses. ensure the uprights are 83cm apart centre to centre.

Finally prepare your roof timbers (F). Hold one piece of part F against the bottom of the two roof gables with the edge overhanging equally on each side. Mark the outside edge of each gable (in pencil) onto part F. Pre-drill your screw holes about 1cm inwards from these marks and about 2-3cm from top and bottom. Use this piece F to pre-drill the other roof slats.

Start at the peak of the roof and attach a part F by lining up the lines you have previously drawn on indicating the outside edges of the gables. You may need to pull the gables apart/together to get them parallel and lined up with the pencil marks. Gradually build the roof downwards completing one side fully then the other.

Attaching the Sandpit:



Pre-drill the sandpit sides Parts A about 30mm from each end and central. Mark with a pencil 35cm from the lower end of your uprights and attach four sandpit sides flush with these marks, using screws (1). Add the second and third layers of the sides above the one already fitted. Ensure the frame is square before fitting the seats (parts B) with 2 x 60cm screws (1) at each end.

TIP: To achieve a neat appearance never drive your screws hard into the timber but endeavour to leave the screw head flush with the surface.

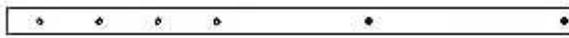
Attaching the Commando Net:

ATTENTION: Allow a minimum of 2 metres space around the play centre and ensure that the area is free from other obstacles such as trees and branches, garden lights and other play equipment.

If you are building a single tower, the diagram does not show the sandpit for clarity. Attach the top rail (part A) to the two uprights of the tower. Using 2 x m10 x 110mm bolts, washers and nuts. Tie the commando net to the top rail, making sure the gap between the top rung is of the net and the rail is less than 90mm. Use a double knot on each rope to give extra strength. now fill the bottom rail (part B) with 4 x 60mm screws. When fitting the lower commando net rail (part B) first remove the bottom sandpit side. Lay the beam in its correct position, mark with a spade and dig out a shallow trench. Lay the beam into this trench and screw firmly in place. Any gaps under the beam should be re-filled with soil or sand and pack firmly, but before doing so attach your commando net, again using a double knot.

BEWARE: When tying the ropes to the top commando rail (part A) make sure that the gap between the top rung of the net is even and the gap less than 9cm to avoid accidental head entrapment.

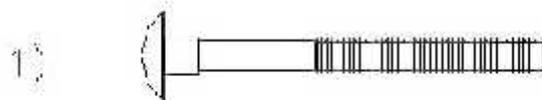
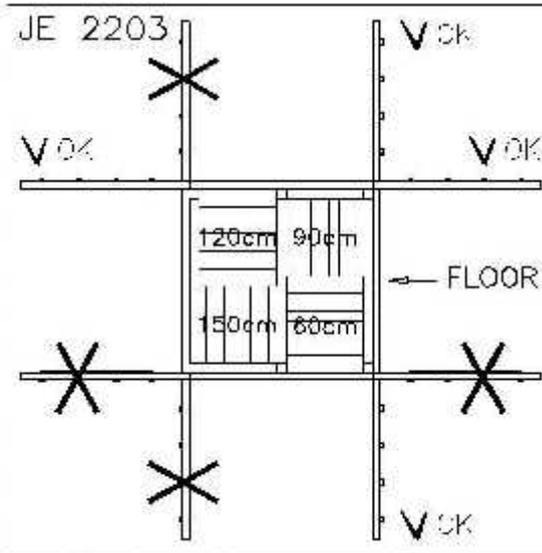
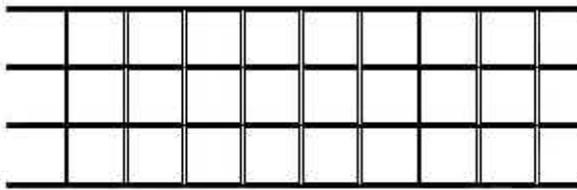
A) 1X 75x120/270cm



B) 1X 31x90/270cm



C) 1X Net



2X 70x110mm bolts



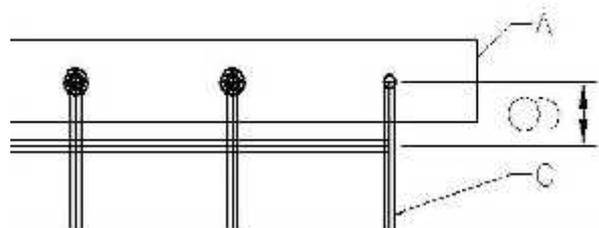
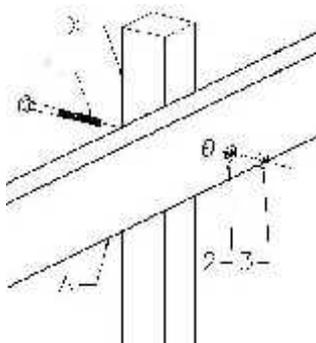
2X M10 washers

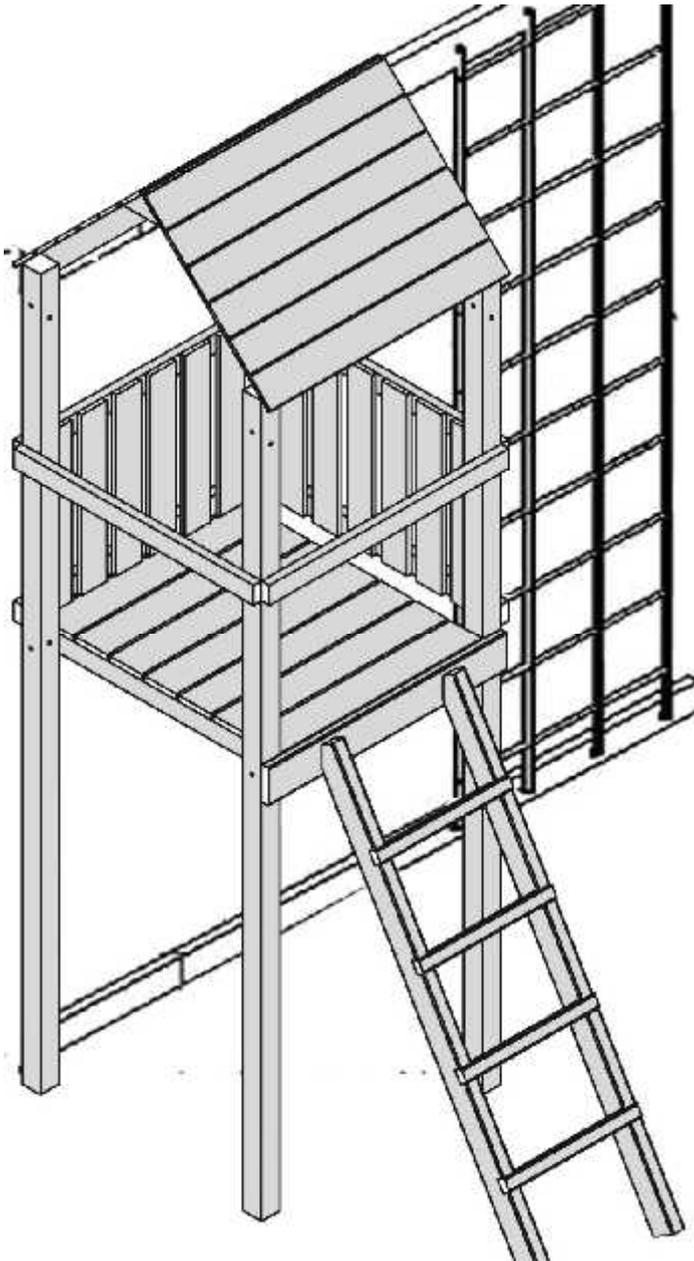
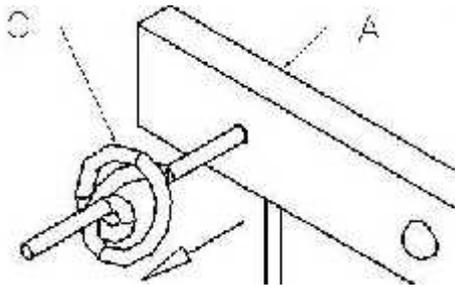


2X M10 nuts



4X 5x60mm screws



**Components & Hardware:**

1 x (A) 45x120/240cm

1 x (B) 34x90/240cm

1 x (C) Net

2 x (1) 10x110mm bolts

2 x (2) M10 Washers

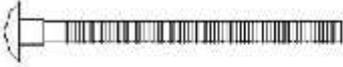
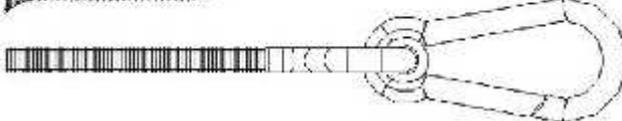
2 x (3) M10 Nuts

4 x (4) 5x60mm Screws

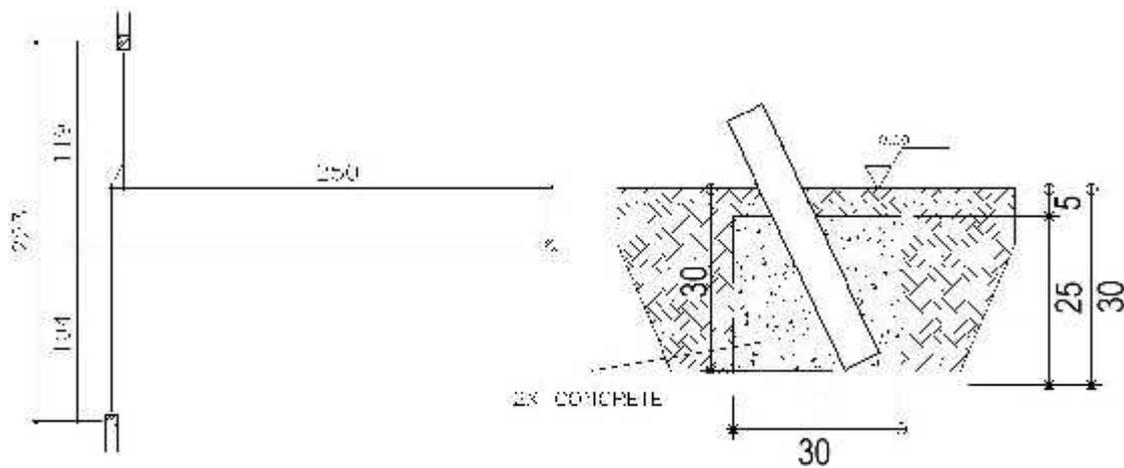
Attaching the Swing Arm:

You will need one bag of post-crete (mentioned earlier) for concreting the bottom of the swing beam supports. You may find it easier to attach the swing hooks while the beam is still on the ground rather than struggling up a ladder.

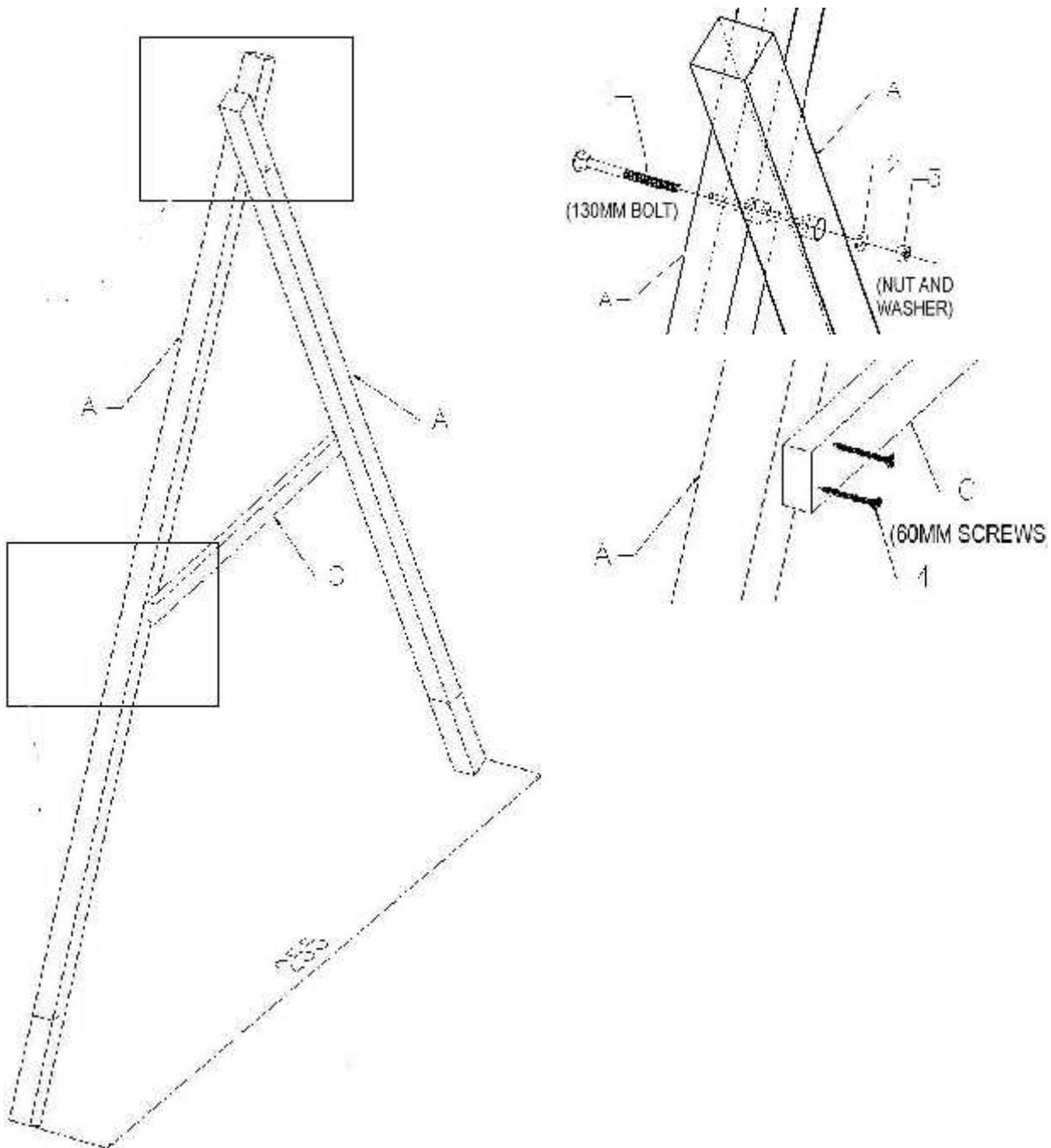
Swing Beam components list:

- | | | |
|----------------------|--|--|
| A) 2x 1x1/50u/cm |  | |
| B) 1x 9x9/350cm |  | |
| C) 1x 30x60/119pc/cm |  | D) 2x 50x80/10cm  |
-
- | | |
|---|----------------------|
|  | 1) 1X 10x130mm bolts |
|  | 2) 7X M10 washers |
|  | 3) 12X M10 nuts |
|  | 4) 10X 5x60mm screws |
|  | 5) 1X 10x150mm bolts |
|  | 6) 2X 6x120mm screws |
|  | 7) 5X hook |

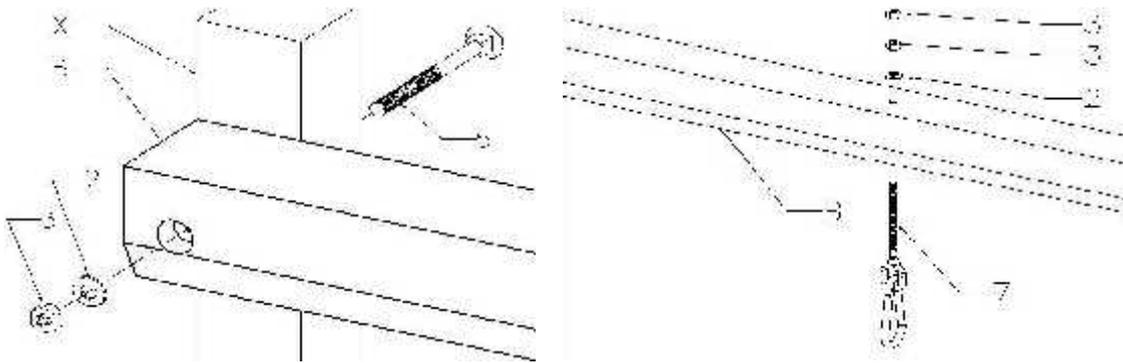
Digging the holes for the Swing Beam:



ATTENTION - Allow a minimum of 2 metres space around the Playcentre and ensure that the area is free from other obstacles such as trees and branches, garden lights and other play equipment.

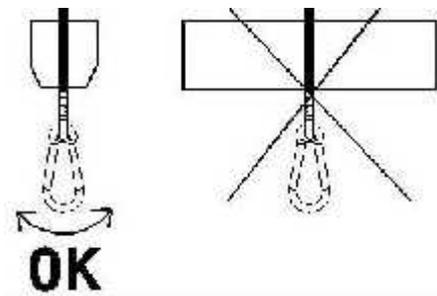


To make the A frame use the 130mm bolt, nut and washer, and push through both part A's. The nut and the washer will sit in the recess around the bolt hole. Then spread the legs out so the measurement from outside to outside of the part A's is 255cm. Then drill two holes at each end of part C approx 30mm in. Fix using 4 x 60mm screws. This rail should be flush with both sides of parts A and the same distance up from the bottom of Part A.



We suggest attaching the swing hooks before lifting the beam up onto the frame. Attach the swing beam (part B) to your desired upright of the tower, using (part 6) nut and washer. The Nut & Washer should sit in the recessed hole.

Two people are needed for this next bit. Lift the A-Frame into the previously dug holes. One person holds this in place whilst the other lifts up the swing beam (part B) above the height of the A frame. Then slowly lower the beam so it sits in between both parts A. Now check that the beam is level and adjust the height by either digging the holes deeper or adding soil to the hole. Make sure the A frame is upright and approximately 100cm in from the end of the beam before continuing.



TIP: When you come to build the swing arm we suggest you first drill a 4mm pilot hole in the two uprights (A) before attaching the swing arm beam B with the two 6x120mm screws.

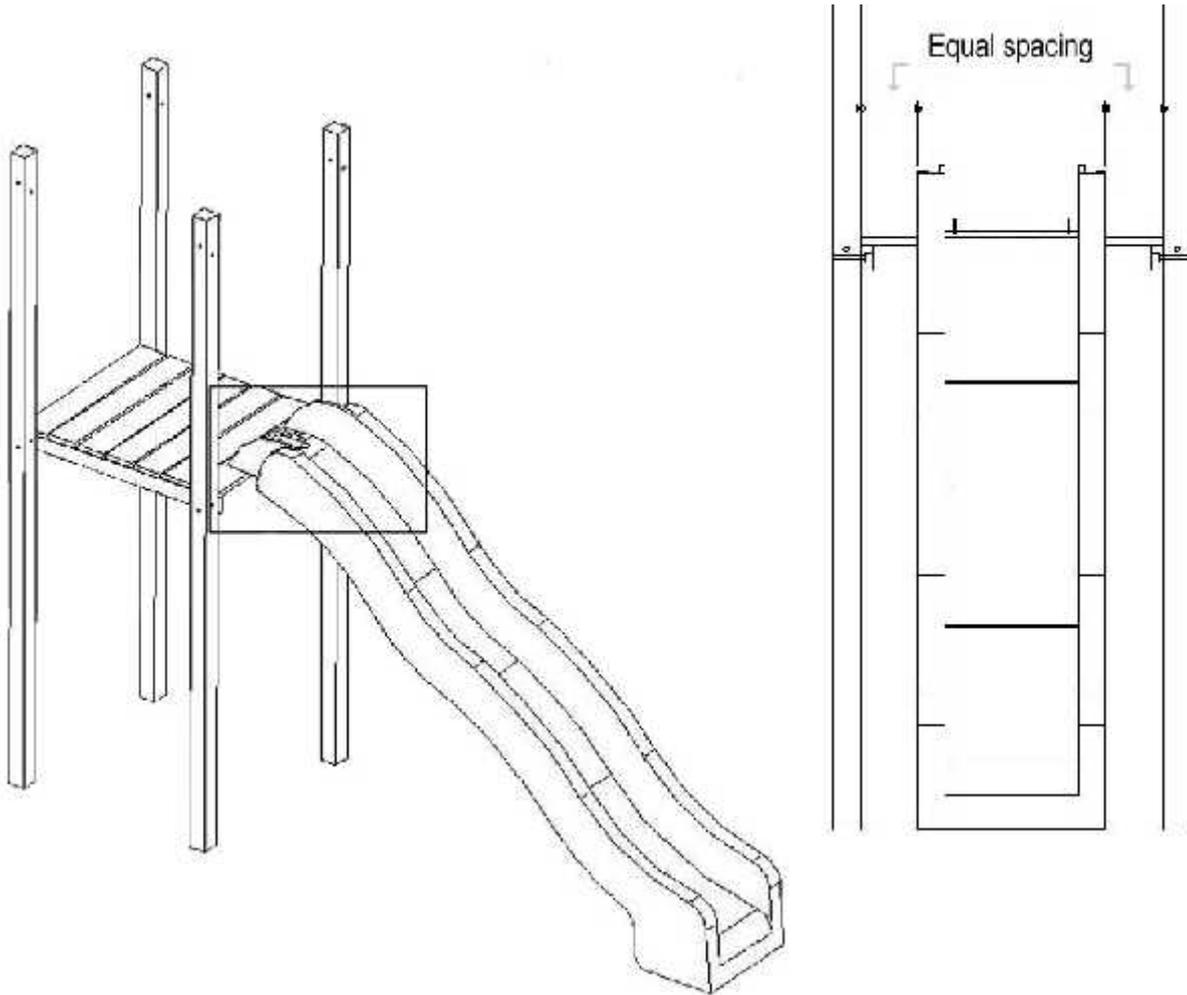
Components & Hardware:

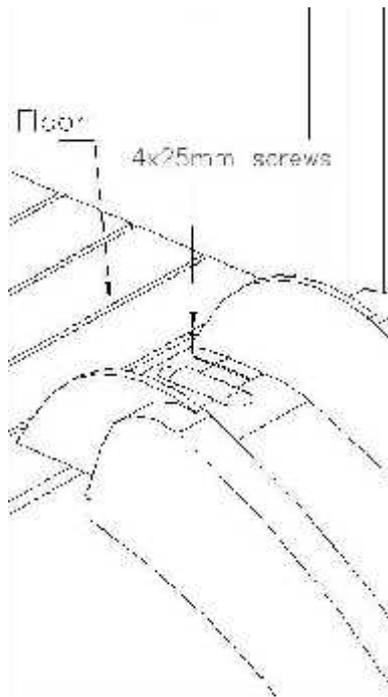
- 1 x (B) 9x9/360cm
- 2 x (D) 30x65/40cm
- 6 x (2) M10 Washers
- 11 x (3) M10 nuts
- 6 x (4) 5x60mm Screws
- 1 x (5) 10x150mm Bolts
- 2 x (6) 6x120mm Screws
- 5 x (7) Swing Hook

To make up the A frame, use the 130mm bolt, nut and washer and push through both part A's. The nut and washer will sit in the recess around the bolt hole. Then spread the legs out so, the measurement from outside to outside of the Part A's is 255cm.

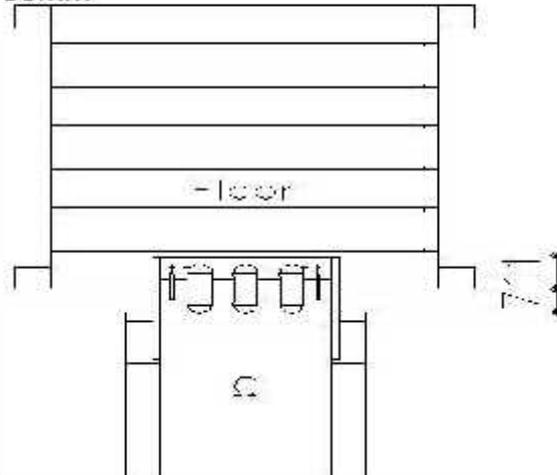
Then drill two holes at each end of part C approx 30mm in. Fix using 4 x 60mm Screws. This rail should be flush with both sides of Parts A and the same distance up from the bottom of part A.

Attaching the Slide:





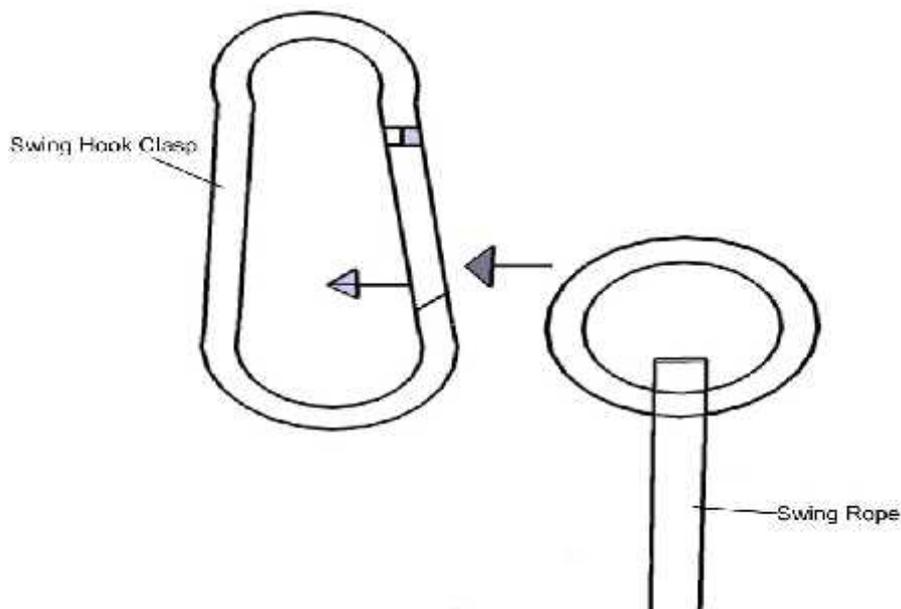
Allow a 7mm gap between the front of the platform & the slide side moulding. This allows the slide to flex in use. To give extra stability dig the base of the slide in to the ground by around 30mm



Attach the slide to the platform using 2 4x25mm screws. Attach the slide to the front of the platform with the platform flooring at right angles to the direction of the slide.

Leave gaps of an equal distance either side of the slide between the slide and the tower uprights.

Attach the Swing Components:



To attach the swing hook, push in the hinged clasp on the swing hook. Then place the centre of the swing attachments, metal ring, into the middle of the clasp. Then ensure the clasp has fully closed before use.

You should now have completed your Arundel Climbing Frame. It is now time to check all screws and bolts to ensure they are fully tightened. Also check that all platforms are level and all posts are upright. Ensure the two towers line up with each other. Once you are fully happy with the above, it is time to concrete (Post-Crete) the uprights, bottom of stairs and the swing frame supports. When the concrete has gone off (set) you can replace the 50mm of grass that was removed at the start of construction. If you use concrete, at least 24 hours must pass before anyone uses the climbing frame. Post-Crete sets faster so you may use the climbing frame in most cases within an hour.

WARNING:

This climbing frame is for family domestic use only. It is designed for outdoor use by children aged 3-12 years. The climbing frame should be sited on level ground at least 2m away from any structure or obstruction such as a fence, house, garage, washing line, tree branches or electrical wires.

The climbing frame should not be sited over a hard surface such as concrete asphalt or similar hard surface. Lawn or bark chippings are perfectly acceptable as suitable play surfaces.

MAINTENANCE:

Your climbing frame is made from wood, which is a natural product. As such it can be affected by changes in the weather and moisture in the air. All main parts (swing beam, tower uprights, tower platform and load bearing timbers) should be checked regularly and maintained to avoid the structure becoming hazardous. We strongly recommend that all fixings (screws, nuts and bolts) are checked regularly and tightened as required and at the end of winter all ropes, nuts and bolts should be checked for tightness, decay and general condition. If in any doubt, replace these items at once. You should view ropes in the same light as a car tyre in that they are subject to wear and tear. They should be replaced when after inspection you believe they have reached the end of their useful life.

This product meets & exceeds British & European Safety & Toy Standards BS5665/EN71

Keep these instructions for future reference.

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