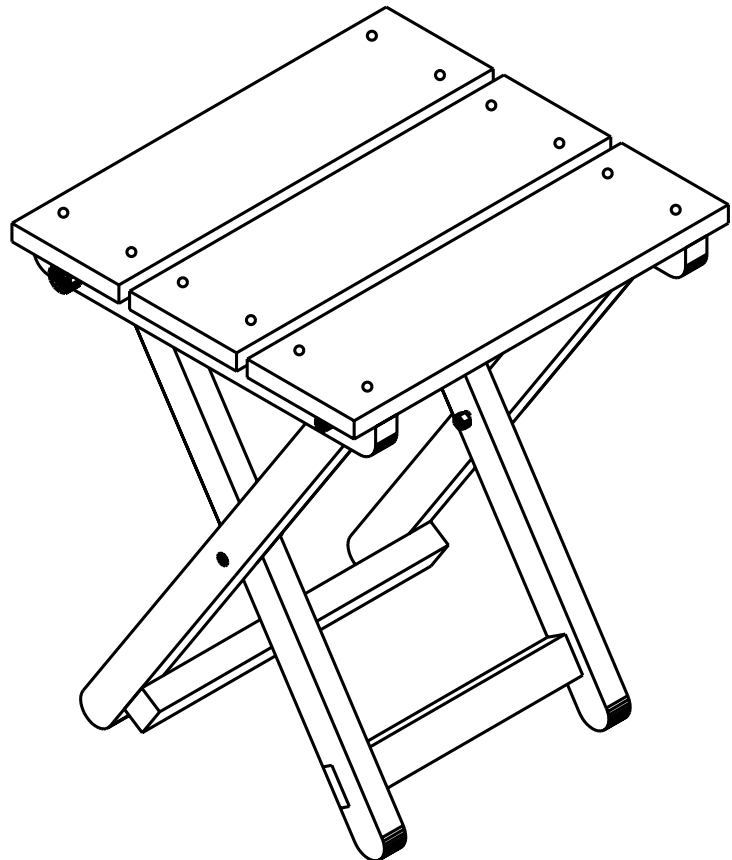


OPITEC

Hobbyfix

1 0 8 . 1 5 7

Folding Stool



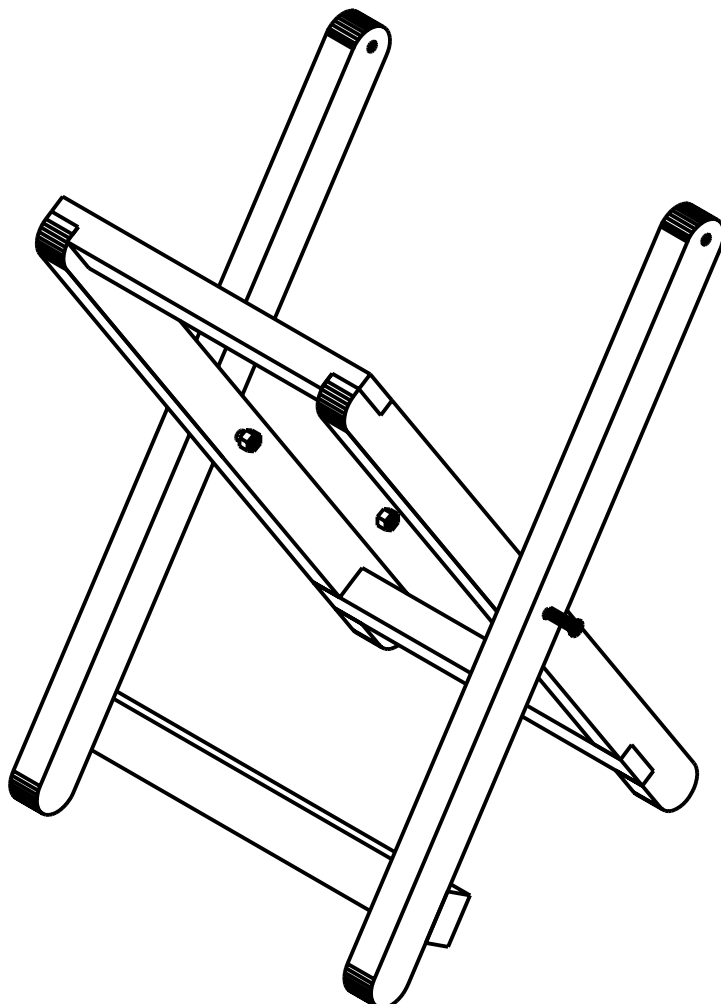
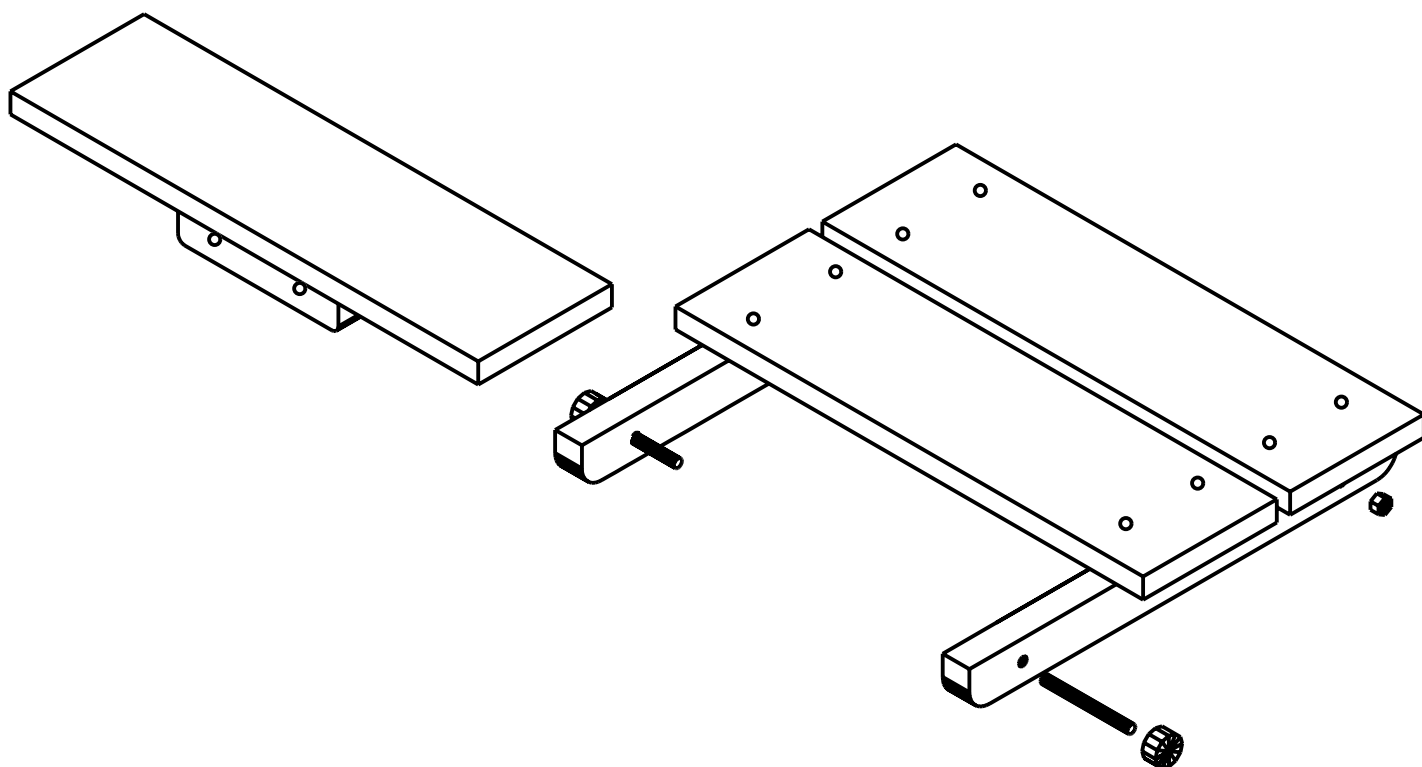
Please Note

The OPITEC range of projects is not intended as play toys for young children. They are teaching aids for young people learning the skills of Craft, Design and Technology. These projects should only be undertaken and tested with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Danger of suffocation!

Contents:

Part No.	Description	Quantity	Size in mm
T1	Inner legs	2	20 x 30 x 500
T2	Inner leg support	2	20 x 30 x 350
T3	Outer legs	2	20 x 30 x 500
T4	Outer leg support	1	20 x 30 x 350
T5	Seat frame	2	20 x 30 x 350
T6	Seat slats	3	15 x 100 x 350
T7	Countersink setscrews with lock nuts	4	M6 x 55
T8	Safety dowel	1	6 dia x 250
T9	Wooden discs	3	dia 20
T10	Dowel	2	6 dia x 250

Construction



Scale1 : 4

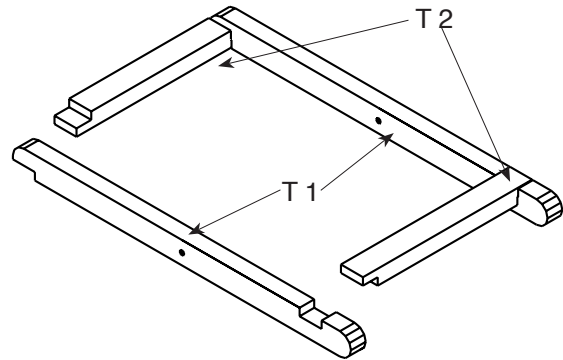
Planning and making

It is advisable to assemble the folding stool step by step as described. Compare your work with the diagrams as you progress.

All the necessary measurements are given in the contents and the diagrams.

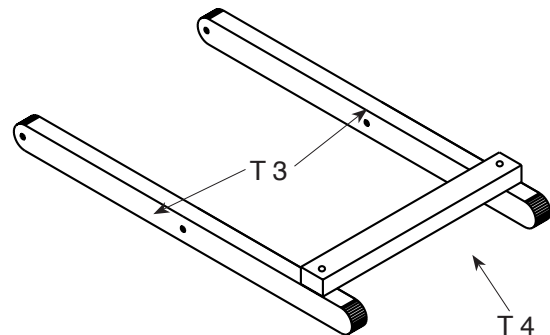
1. Inner Frame.

1. Saw part T1 to a length of 460mm and T2 to a length of 230mm. Sand the edges, saw the lap joints and round off the ends as shown.
Keep the remaining strip (2) for part 11.
2. Mark out and make the lap joints in T2 and insert them in the sides T1
3. Drill the holes in part T1 (6mm dia) and countersink
4. Glue the inner frame together ensuring that it is square (the 6mm holes for the stops will be drilled later).



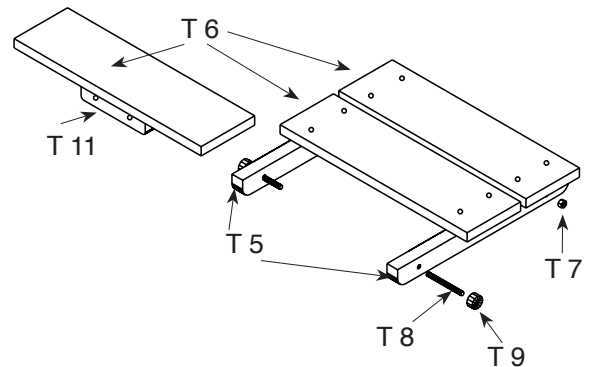
2. Outer Frame

1. Saw part T3 to a length of 460mm and T4 to a length of 270mm, sand the edges, round off the ends as shown.
2. Drill the screw holes in part 3 and countersink on the outside.
3. Cut two dowels each 30mm long from the length of dowel part 10.
4. Drill the holes in part 4 for the dowels.
5. Glue part T4 on to the ends of T3 leaving a distance of 40mm from the end. Drill the dowel holes in part T3 to a depth of 15mm. Join parts T4 and T3 with dowels making sure that everything is square.
6. Join parts T3 to the inner frame using the screw (T7) and stop nut so that the joint can move.



3. Seat

1. Saw parts T5 to a length of 320mm, sand the edges and drill as shown. Sand the edges on parts T6 and drill the holes for the dowels as shown.
2. Parts 11 are made from the remainder of (T2). Glue them to the frame T5 so that the hole (6,5mm dia) for the security dowel lines up with the middle of the block. (part 11)
3. Drill part T11 (remainder from (2) 20 x 30 x 120mm) and glasspaper. Glue part T11 in the middle under the seat as a stop, leave a gap of 10mm from the edge of the seat.
The drill holes in part T11 serve as holders for the stops when the seat is folded.
4. Drill both of the discs (T9) 5mm deep in the middle with a 6mm dia. Insert the dowel (T8) cut to 70mm long, into the discs. These will act as the security stops.
5. Join the seat to the frame using setscrews (T7)
6. When the stool is set up drill a 6.5mm dia hole through T11 and T1 to accept the security stops (T8/9)
7. Insert the stops on both sides left and right.



4. Finishing

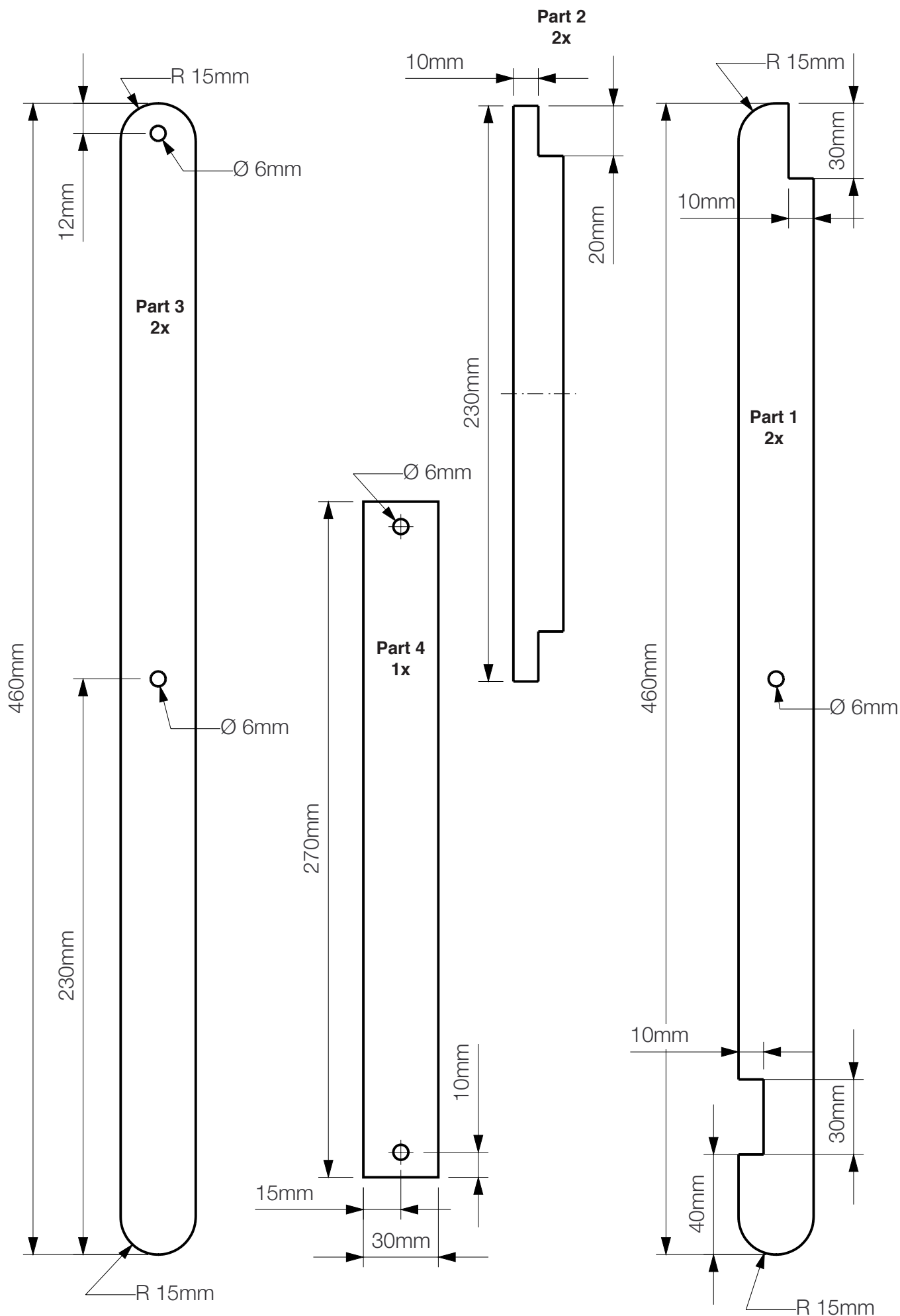
Protect the surfaces of the wood with a clear varnish

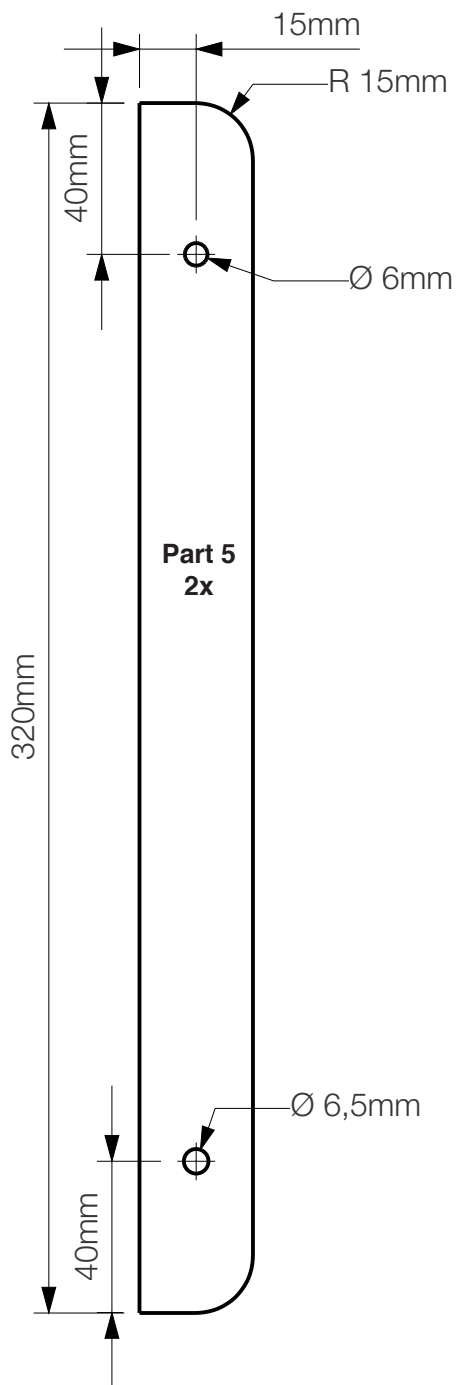
!! IMPORTANT !!

To avoid injury do not use the stool unless the security stops are in the correct holes.

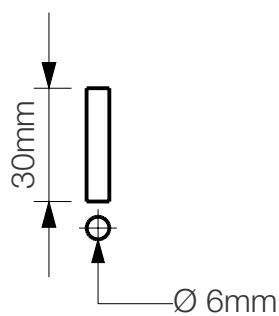
Outer frame

Inner frame

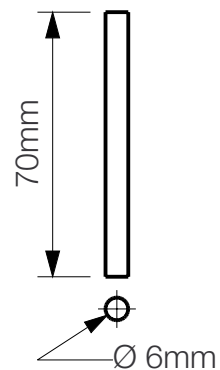




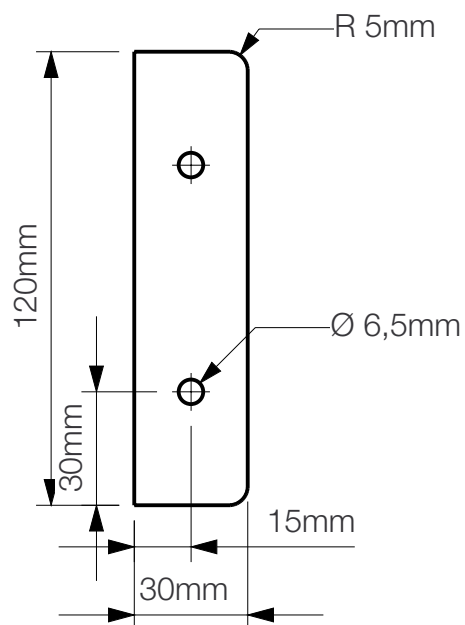
**Dowel
14x**



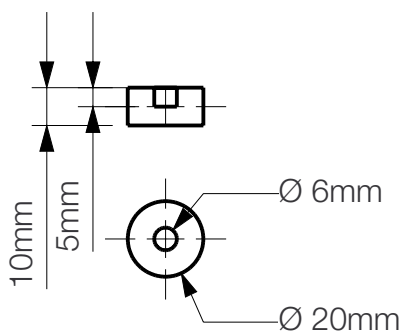
**Part 8
Security stop
2x**



**Part 11
1x**



**Part 9
Disc for the stop
2x**



**Dowel holes for the seat (part T6)
drill left and right**

