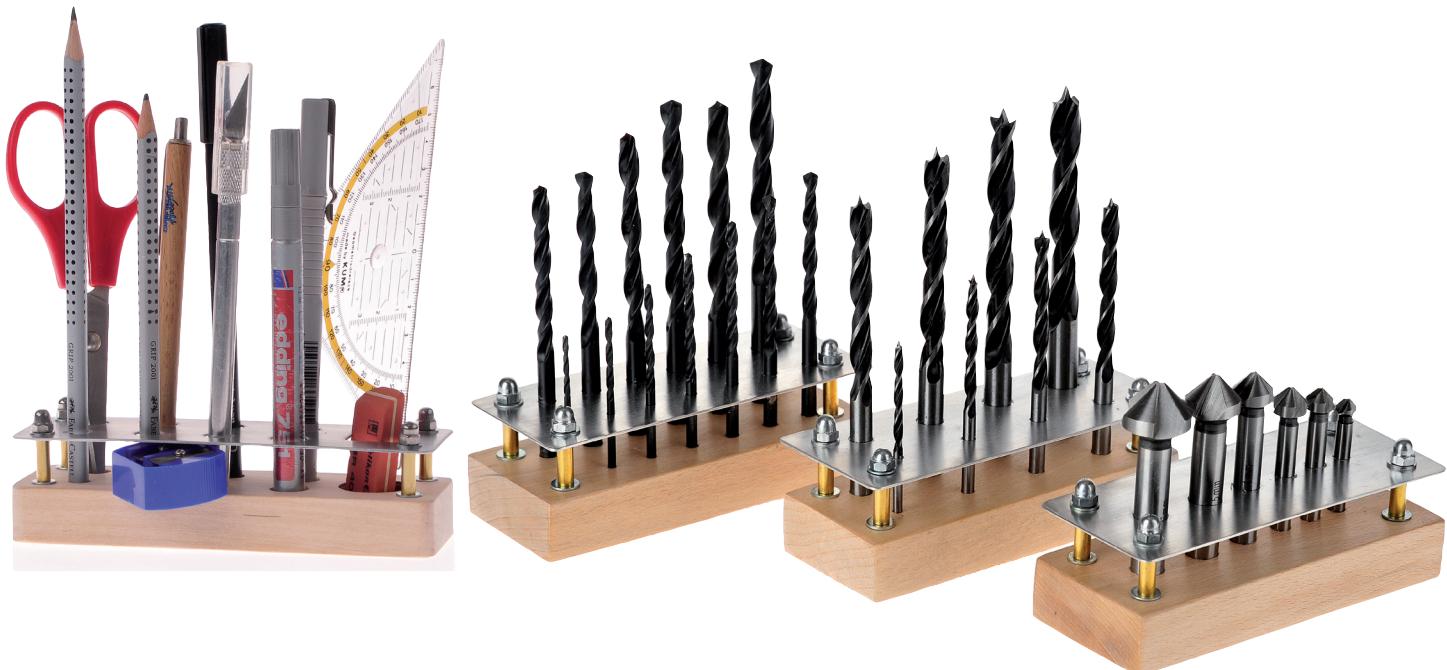


# OPITEC

## Hobbyfix

110.648

### MULTI-STORAGE



#### 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!

#### Necessary tools:

Files, sandpaper  
 Range of drills  
 Slotted screwdriver  
 Spanner 7mm  
 Chisel  
 Machine vice  
 Hammer + punch  
 Hacksaw  
 Countersink

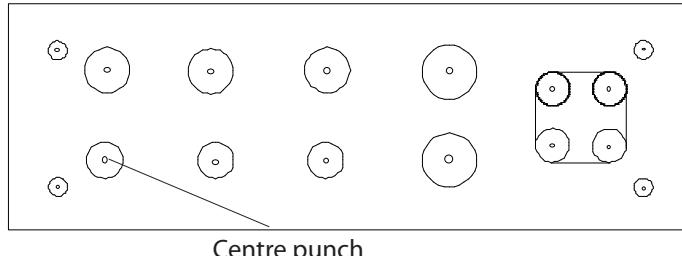
PARTS LIST			Description	Part-no
Wood strip	1	150x50x20	Base	1
Alu-sheet	1	150x50x1	Covering plate	2
Set screws	4	40x4	Spacer	3
Domed nut	4	M4	Fixing	4
Washer	12	4,3/9	Material protection	5
Brass tube	4	15	Spacer	6

# INSTRUCTIONS

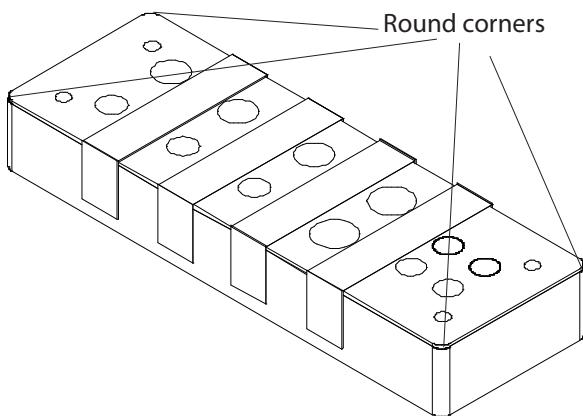
## General:

The instructions show a drill holder but it can be re-designed for many other purposes.

1. Trace the stencil (see page 5) on the aluminium (2). Centre punch the markings see diagram



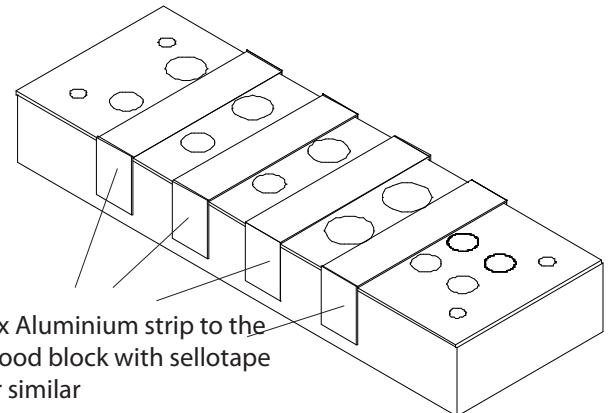
3. Round the corners



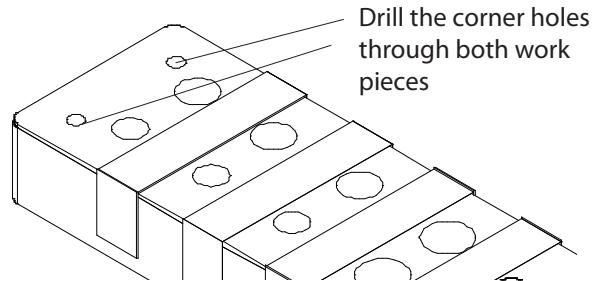
5. Remove the aluminium sheet from the wood.

6. Countersink the holes .

2. Fit the Aluminium strip (2) over the wood block (1) and fix with double sided sellotape.



4. Place the work piece (2+1) in a machine vice. Drill the 4 corner holes in the corner. The remaining holes according to the pattern. 8mm deep through the aluminium into the wood.

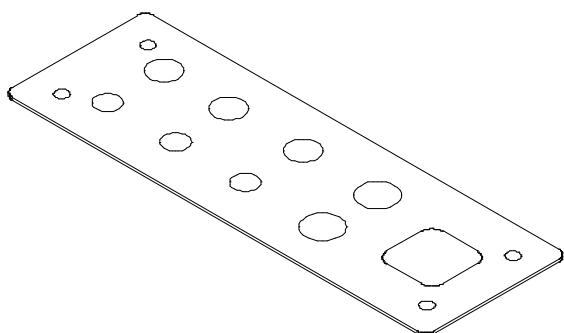


7. Lightly countersink the holes in the wood.

## Note:

Due to the manufacture of drills it is possible that there shanks are larger than drilled. In this case you can drill the holes out slightly larger or use a round file to ease the hole.

8. The quadrat hole in the aluminium can be cut out with a metal working saw and cleaned up with a file.



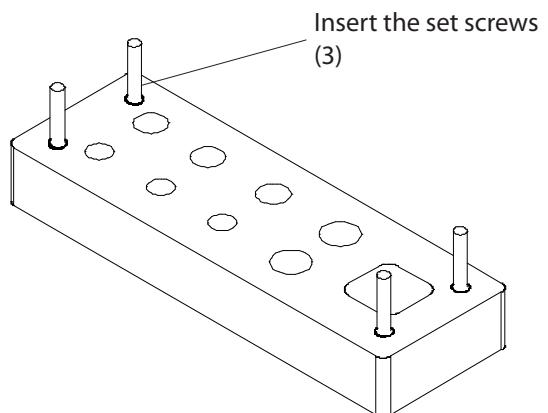
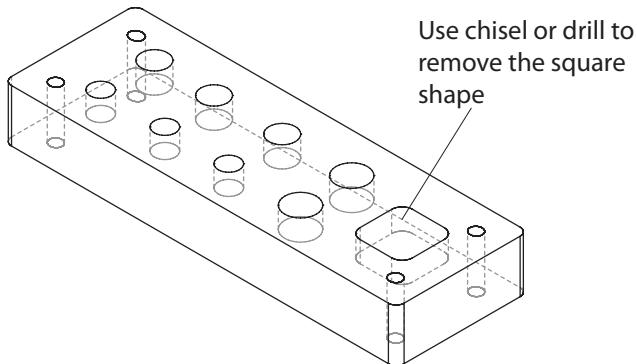
# INSTRUCTIONS

9. Cut out the square hole in the wood block with a chisel .

10. Insert the set screws(3) up through the wooden blocks

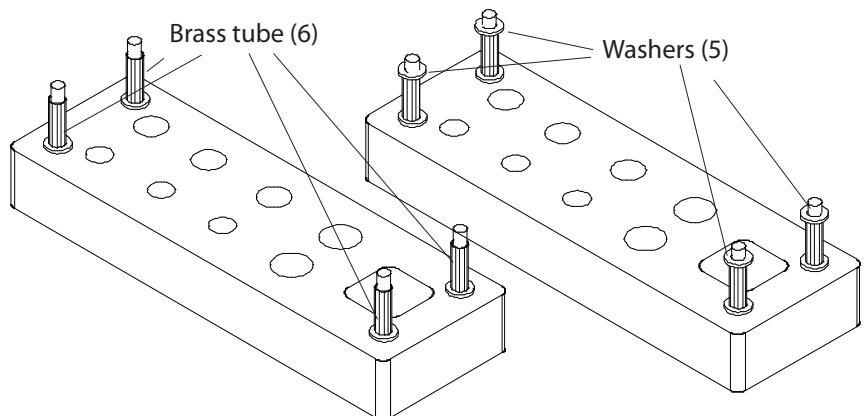
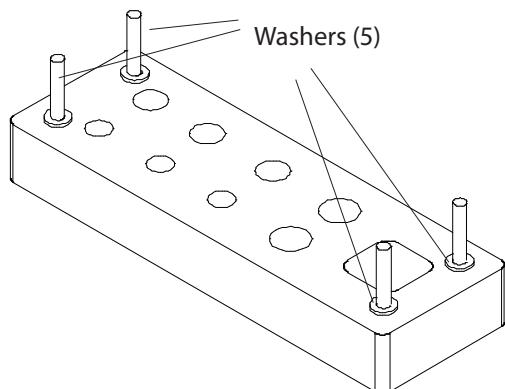
**Note :**

You can also use a Forstner bit  $\varnothing$  20mm x 8 mm deep, removing the remainder with a chisel .



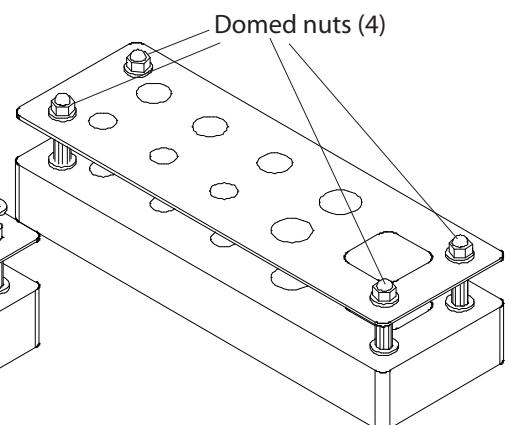
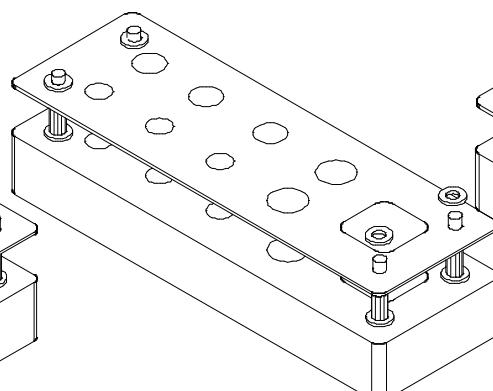
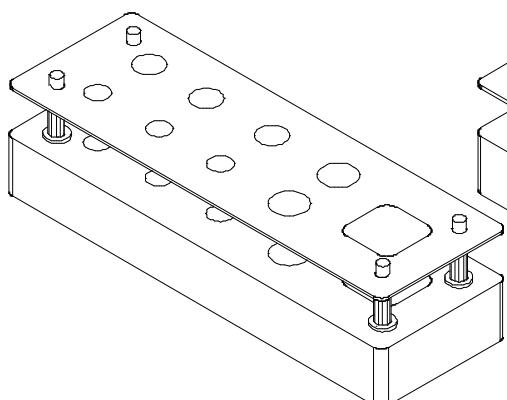
11. Place a washer (5) on each set screw.

12. Place a brass tube spacer (6) on each of the set screws on to the washer (5)



13. Place the aluminium sheet on the 4 set screws (3) see diagram .

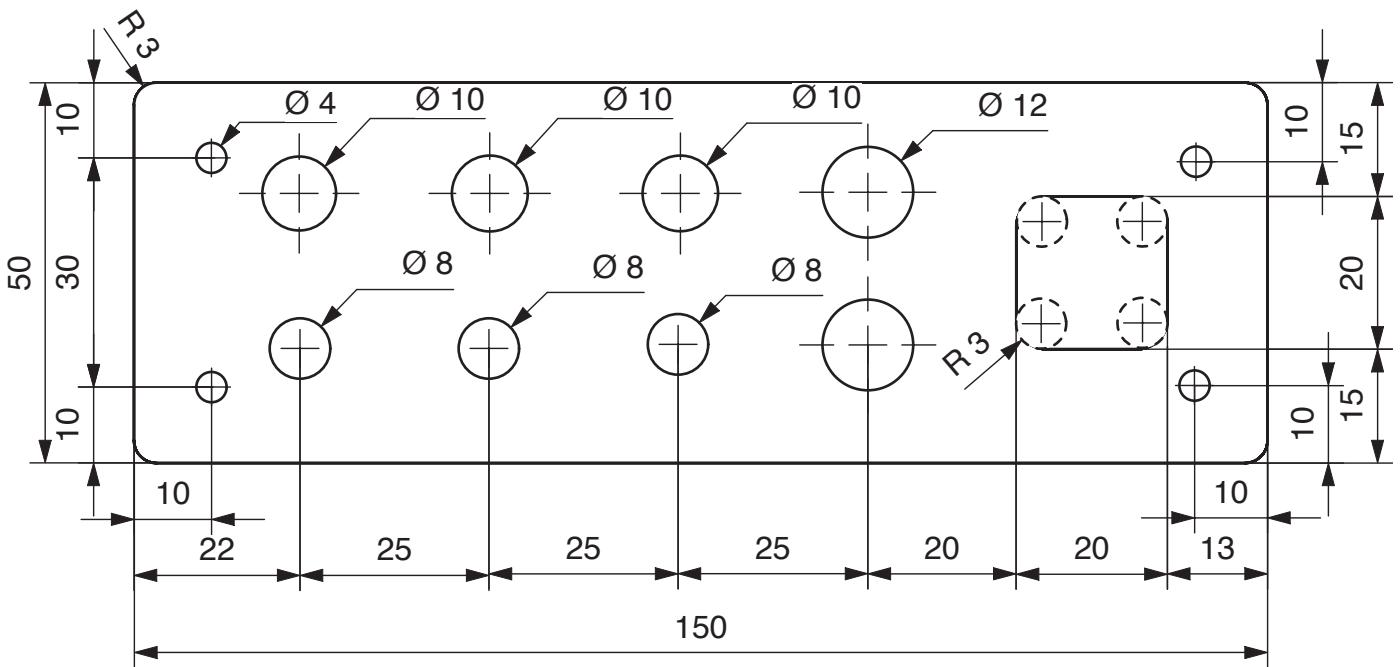
14. Place a washer on top and then screw on the domed nuts (4)





# INSTRUCTIONS

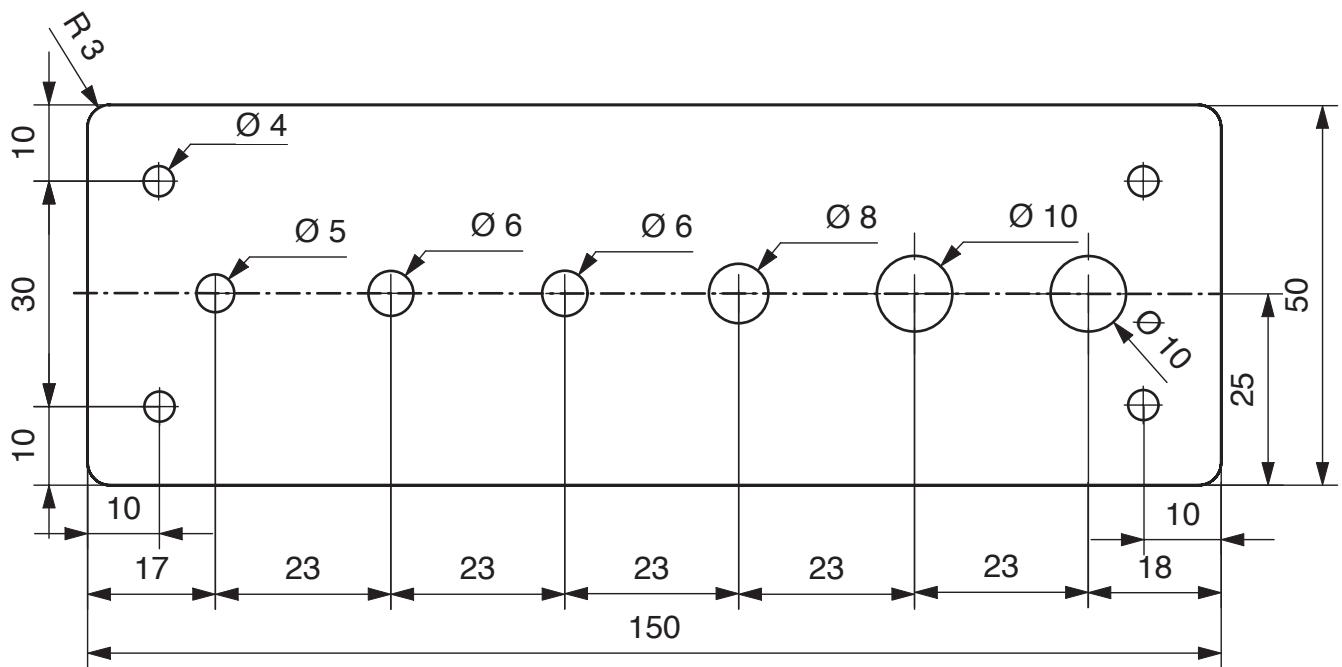
**Drilling pattern**  
E 1:1



**Pattern for countersink**  
E 1:1

General:

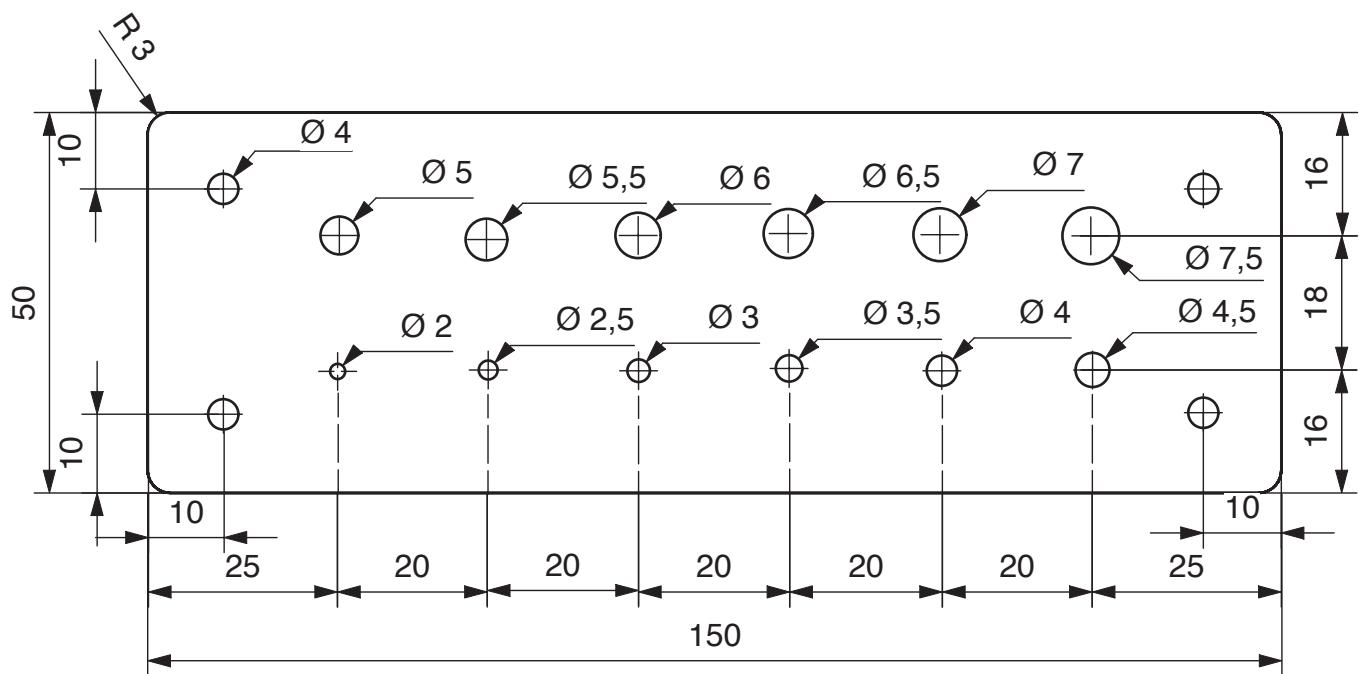
If the shanks of the drills do not fit easily in the holes you can either drill them out a little larger, or use a round file to make them larger!



# INSTRUCTIONS

Pattern for metal drills

E 1:1



Drilling pattern for wood drills

E 1:1

