//INTRODUCTION

When the weather is up for it, I love to cook outside. With this outdoor kitchen, I can do my chopping, peeling and cooking outside.

The outdoor kitchen comprises of gas cooking hob, a bucket sink, a chopping board and storage for crockery, utensils and a few food ingredients. Water is connected from the garden hose and waste water is collected in a watering can placed beneath the sink, so grey water can be reused. The product instructions give different options for construction depending on level of skill and access to tools. However you need to be confident in the workshop to embark on the making of this, alternatively you could get a skilled carpenter to make it for you. All the components are sourced from hardware stores. The boxes are constructed from one sheet of ply and the structure with broomsticks and some screws. Surface treatment can be made tailored to suit personal preference and taste, the version shown is treated with Osmo oil.

//MATERIALS REQUIRED

castor (metal rim heavy duty) 125mm
8.5m length of broom handles 28mm dia. meters
gate valve (compression fitting) 15x15
22mm x 1mtr copper pipe
solder ring/fitting reducer 22-15mm
Washer m6 x 25
Washer m6 x 20
cross dowel m6
cross dowel bolts m6 x 80mm
hinges
hose connector
plastic bowl
watering can
Foker Cast iron single gas burner .
Gas flask
2440*1220 6mm ply wood
5m length of 20mm x 20mm batton
Osmo finishing oil
angled sink waste 1.25”

//TOOLS REQUIRED

table saw
router
saw
drill
4mm drill bit
countersink drill bit
28mm forstener drill bit
pinkgrip d4 wood glue
sandpaper
selotape
clamps
vice
tape measure
pencil for marking up
centre punch
chalk
micrometer

01. source all materials required to construct the whole project.

02. decide what type of corners you would like to make the boxes for this project with. there are three options shown on the following pages.

03. mark up and cut out from the plywood sheet all the elements required to make the boxes. this is shown for the mitred corner option.

04. cut all holes and openings in parts for boxes (excluding those for plumbing).

05. glue and clamp boxes until dry. certain joints will need to be selotaped in order that they do not get stuck.

06. cut all broomsticks to length.

07. drill all connections in broomsticks.

08. assemble boxes around broomsticks.

09. tighten up broomstick connections.

10. complete boxes.

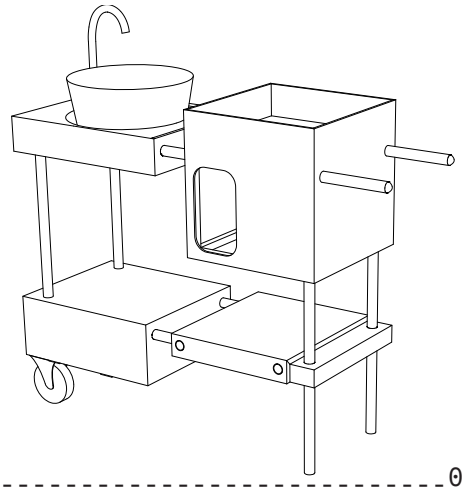
11. fix drawer.

12. fix plumbing.

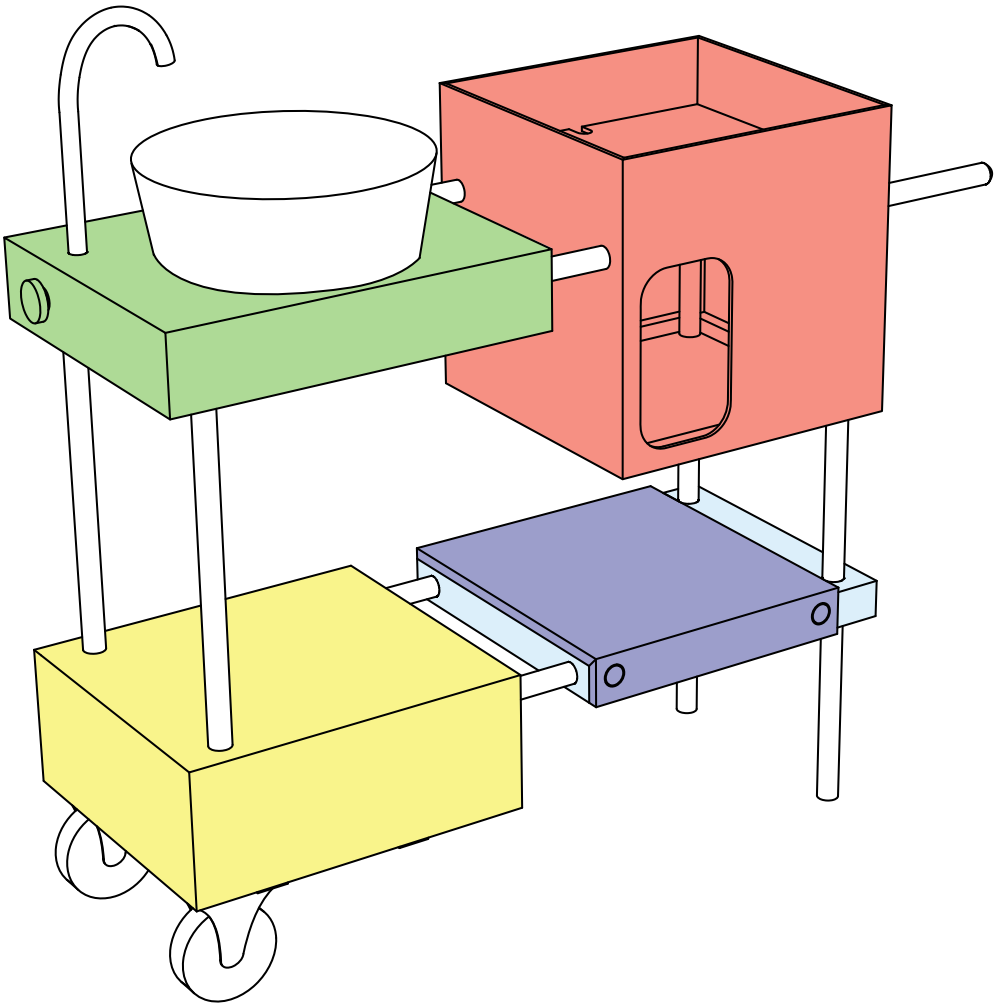
13. make chopping board.

14. attach wheels.

15. wait for a summers day.

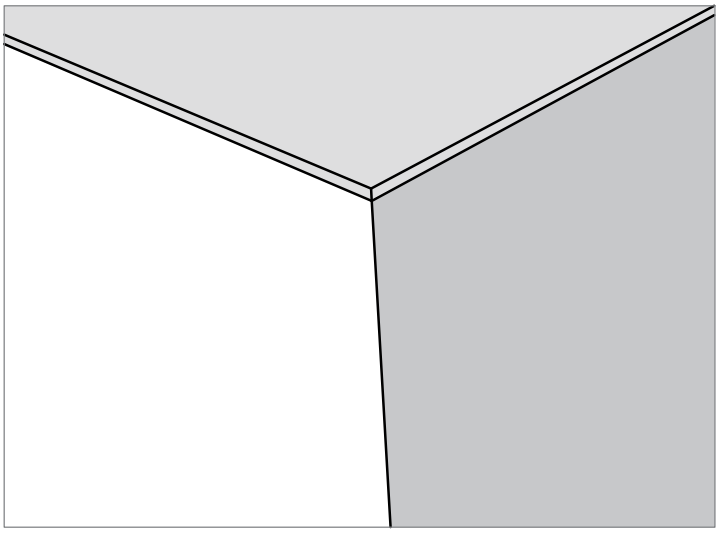


//for convenience the outdoor kitchen has been split up into five elements these being the four boxes and the frame around which the boxes are built.
the colour coded drawing below sets out the names and part numbers for all the elements

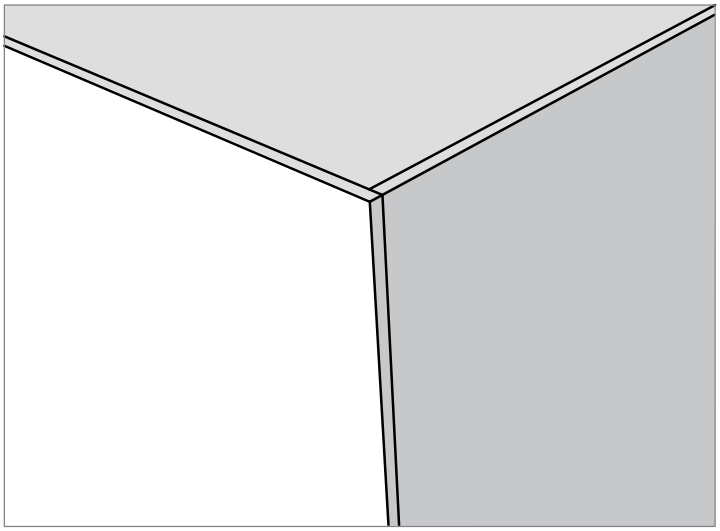


sink box	(SB01-09)
burner box	(BB01-08)
drawer box	(DB01-09)
chopping board box	(CB01-06)
chopping board	(CB07-09)

02 there are a number of ways of constructing the corners of boxes, some are simpler and require less skill and equipment others which require a high degree of experience and equipment.
the instructions below are for the mitred corner box. this gives a very clean corner to the box.



mitred corner

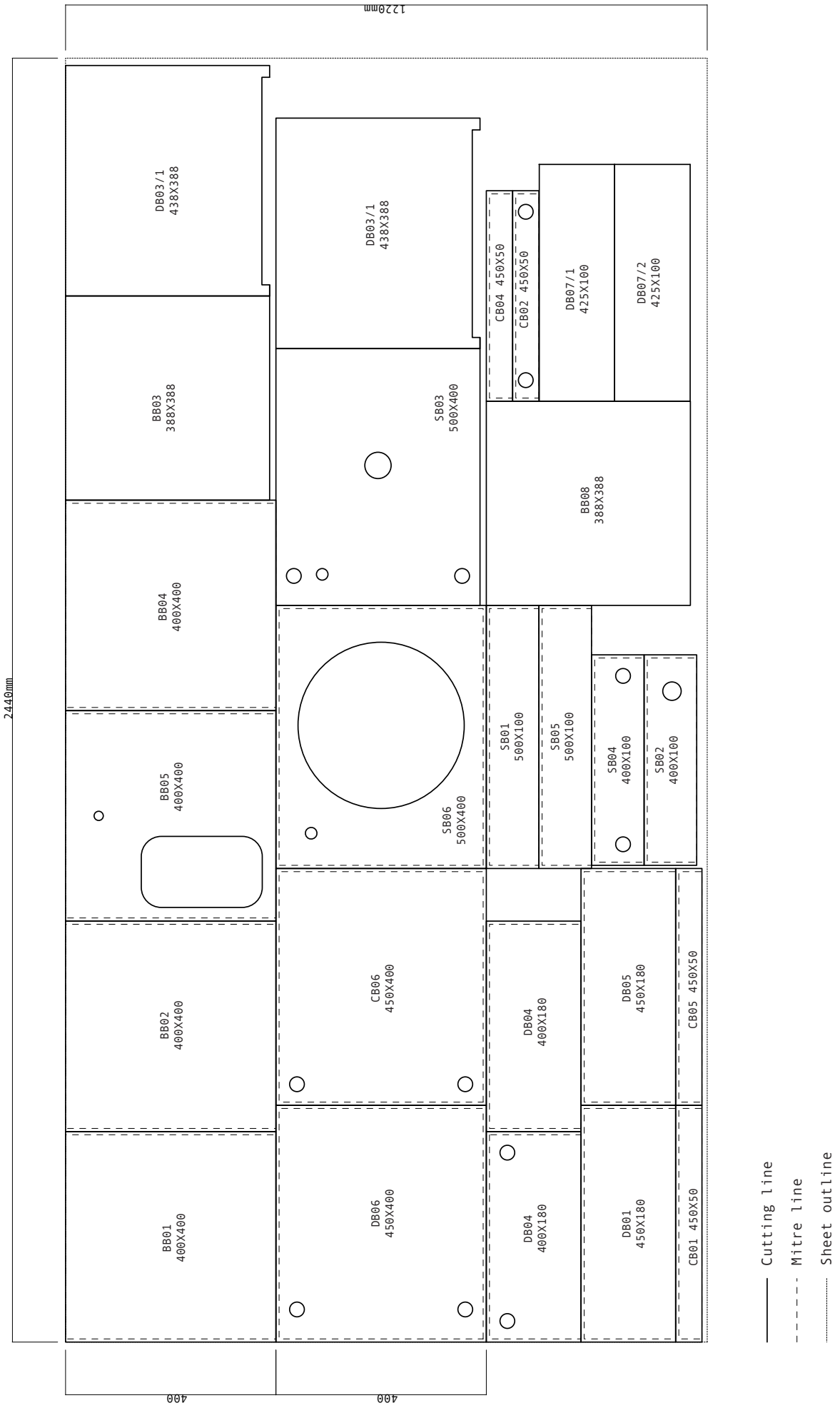


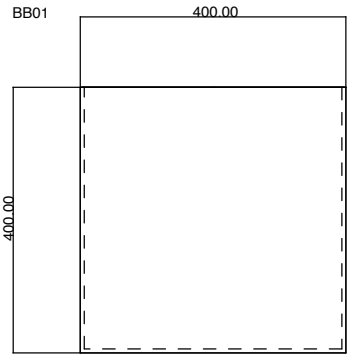
butt jointed corner

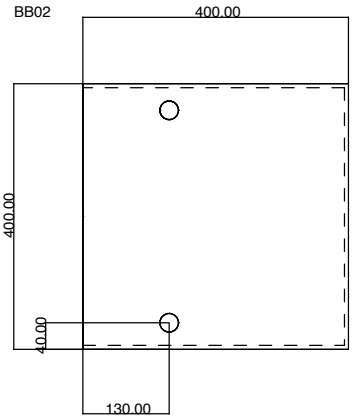
03 start by chalking out on the sheet of plywood the pieces as shown on the next page. using chalk allows for mistakes to be easily changed. it is worth chalking onto the individual pieces both their designation and their dimensions this allows for ease of identification and checking later on the construction process

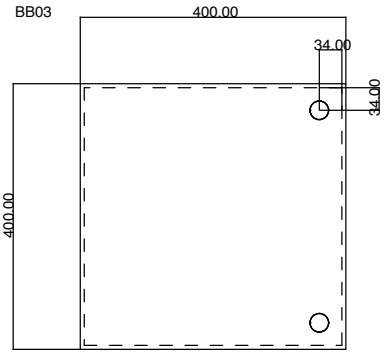
using a bench saw or workbench mounted router, mitre the sides of the boxes as indicated above. both these pieces of equipment are potentially dangerous and care should be taken. if you feel uncomfortable using such equipment please seek the help of a professional or someone more experienced.
alternatively see above as to simpler alternatives as to how the corners of the boxes can be made.

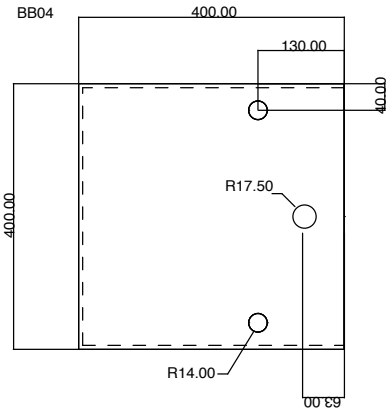
before drilling the holes for the broomstick frame using a micrometer measure the diameter of the broomsticks. broomsticks are not manufactured to a high specification and so a variety of diameters may be found. the dimensions used throughout are for 28mm broomsticks. these should be adjusted accordingly. measuring the broomsticks will allow you to purchase the correct drill bit to cut tight fitting holes for the brooms to pass through.

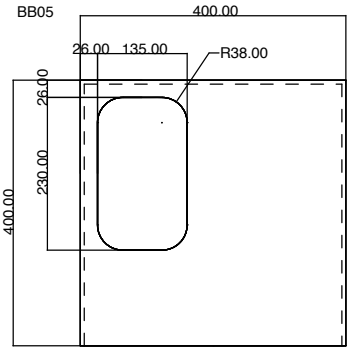

1220mm
2440mm
400
400
DB03/1
438X388
DB03/1
438X388
CB04 450X50
CB02 450X50
DB07/1
425X100
DB07/2
425X100
BB03
388X388
SB03
500X400
BB08
388X388
BB04
400X400
BB05
400X400
SB06
500X400
SB01
500X100
SB05
500X100
SB04
400X100
SB02
400X100
BB02
400X400
CB06
450X400
DB04
400X180
DB05
450X180
CB05 450X50
BB01
400X400
DB06
450X400
DB04
400X180
DB01
450X180
CB01 450X50
Cutting line
Mitre line
Sheet outline







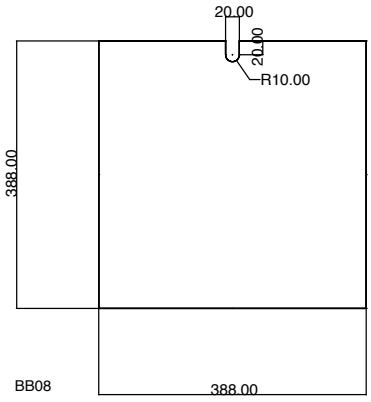


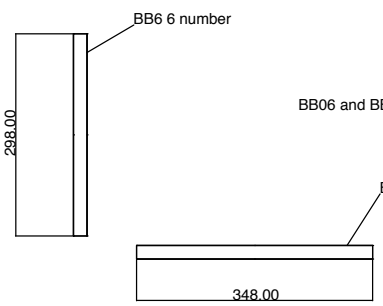


All panels to be made from 6mm Ply

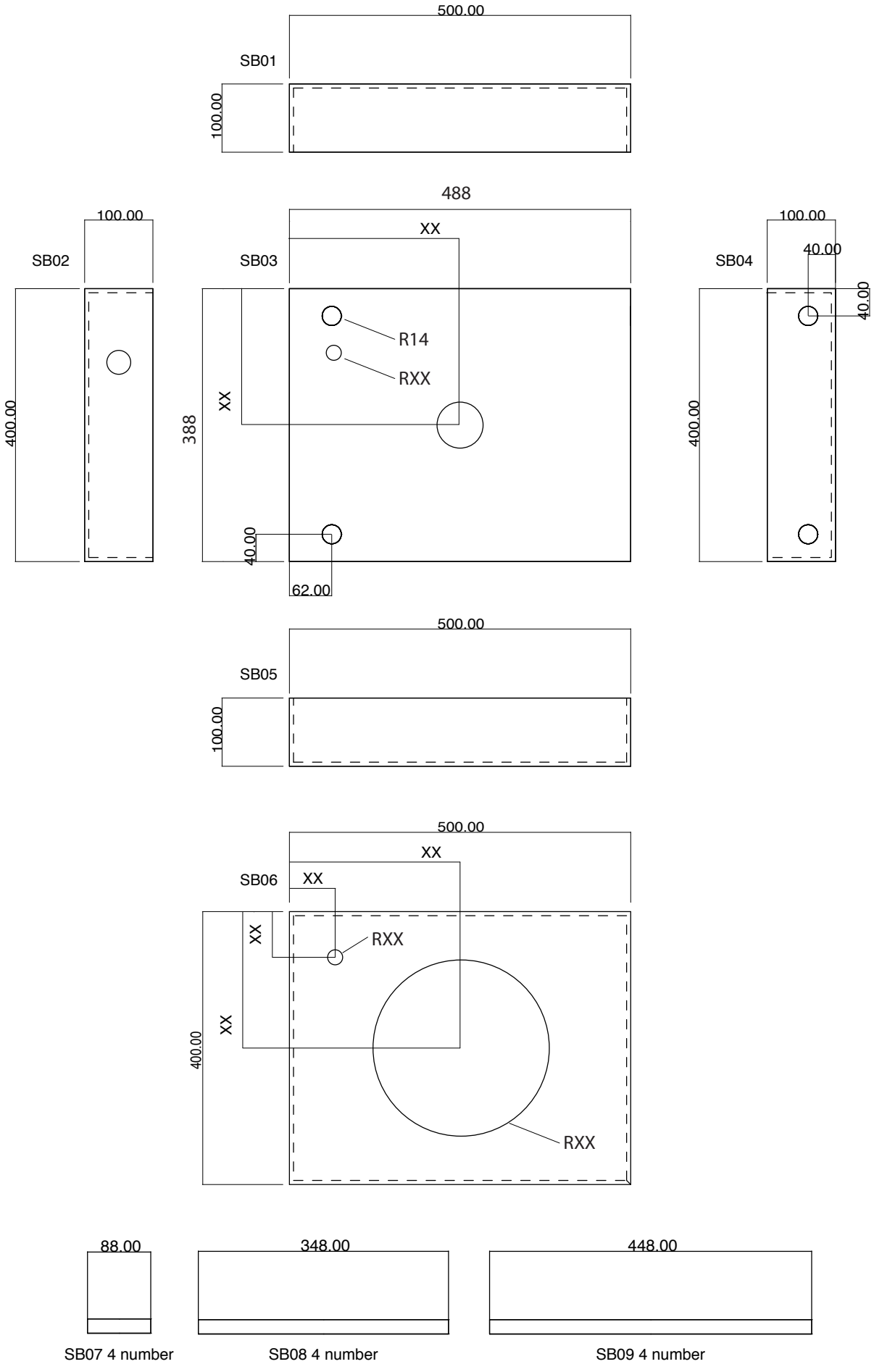
Sides BB1, BB2, BB4 and BB5 to be mitred on both sides and bottom

Side BB3 to be mitred on all sides

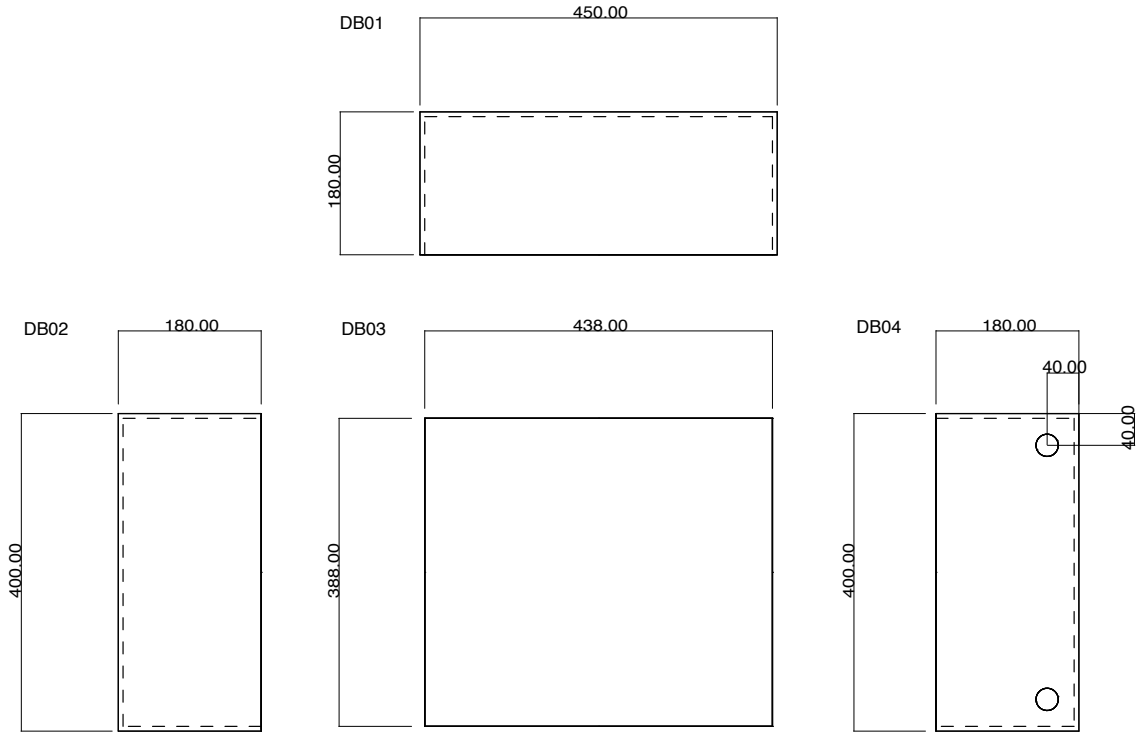




BB06 and BB07 to be made from 20mm by 20mm timber



SB07-SB09 to be made from 20mm by 20mm timber

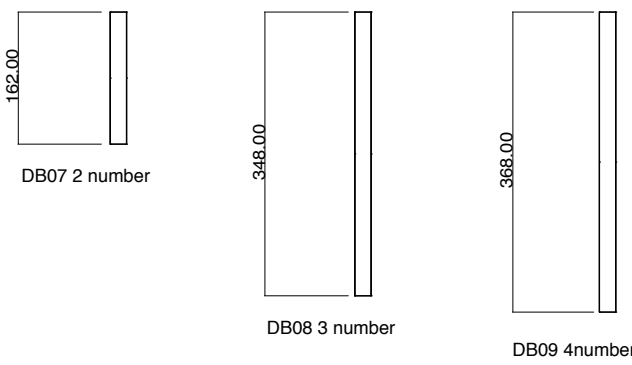


DB01, DB02, DB04, DB05 and DB06 to be made from 6mm Plywood

DB03 to be made from 12mm Plywood

DB01, DB02, DB04 and DB05 to be mitred on top and sides

DB06 to be mitred on all sides

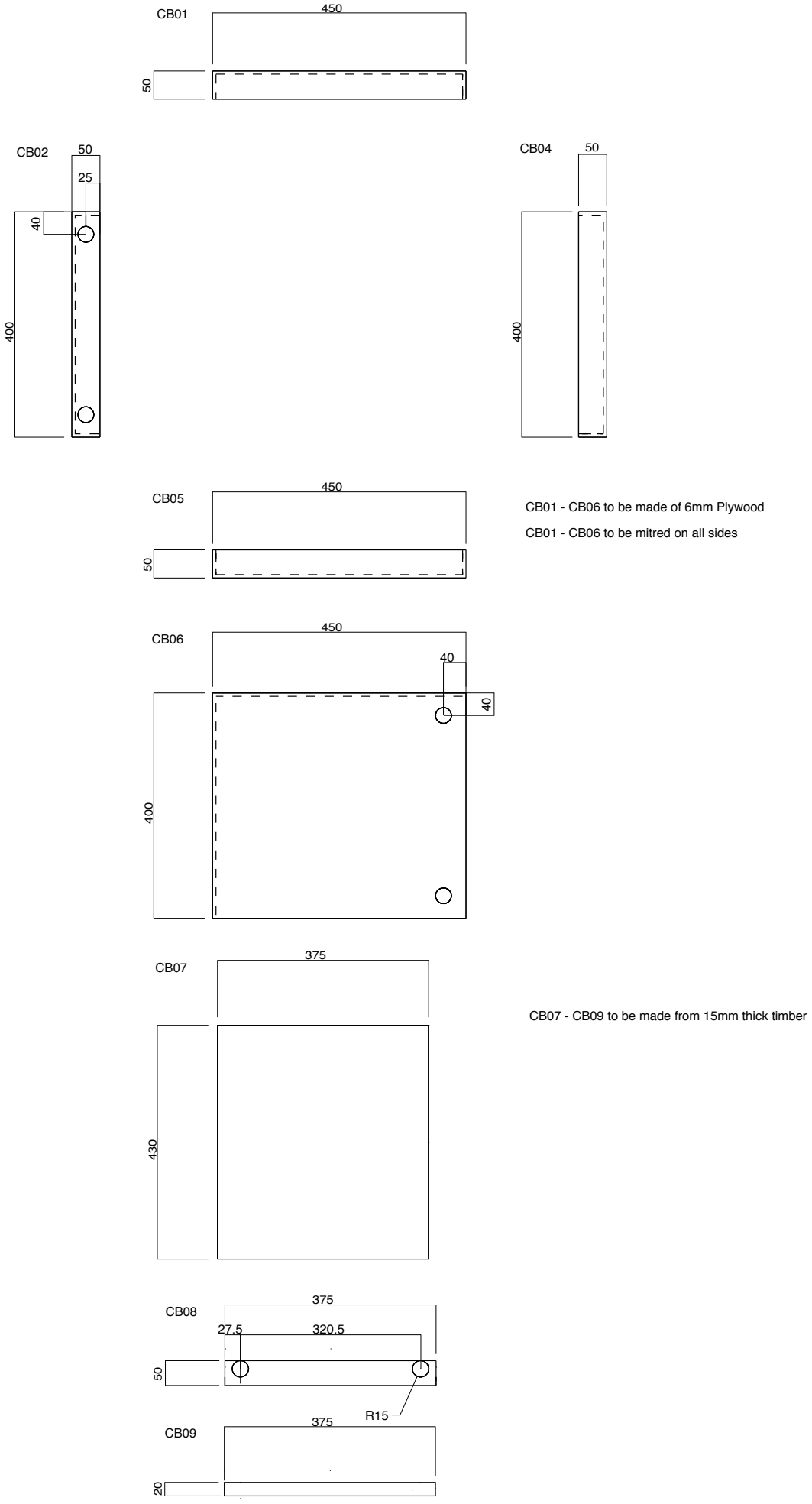


DB07 2 number

DB08 3 number

DB09 4number

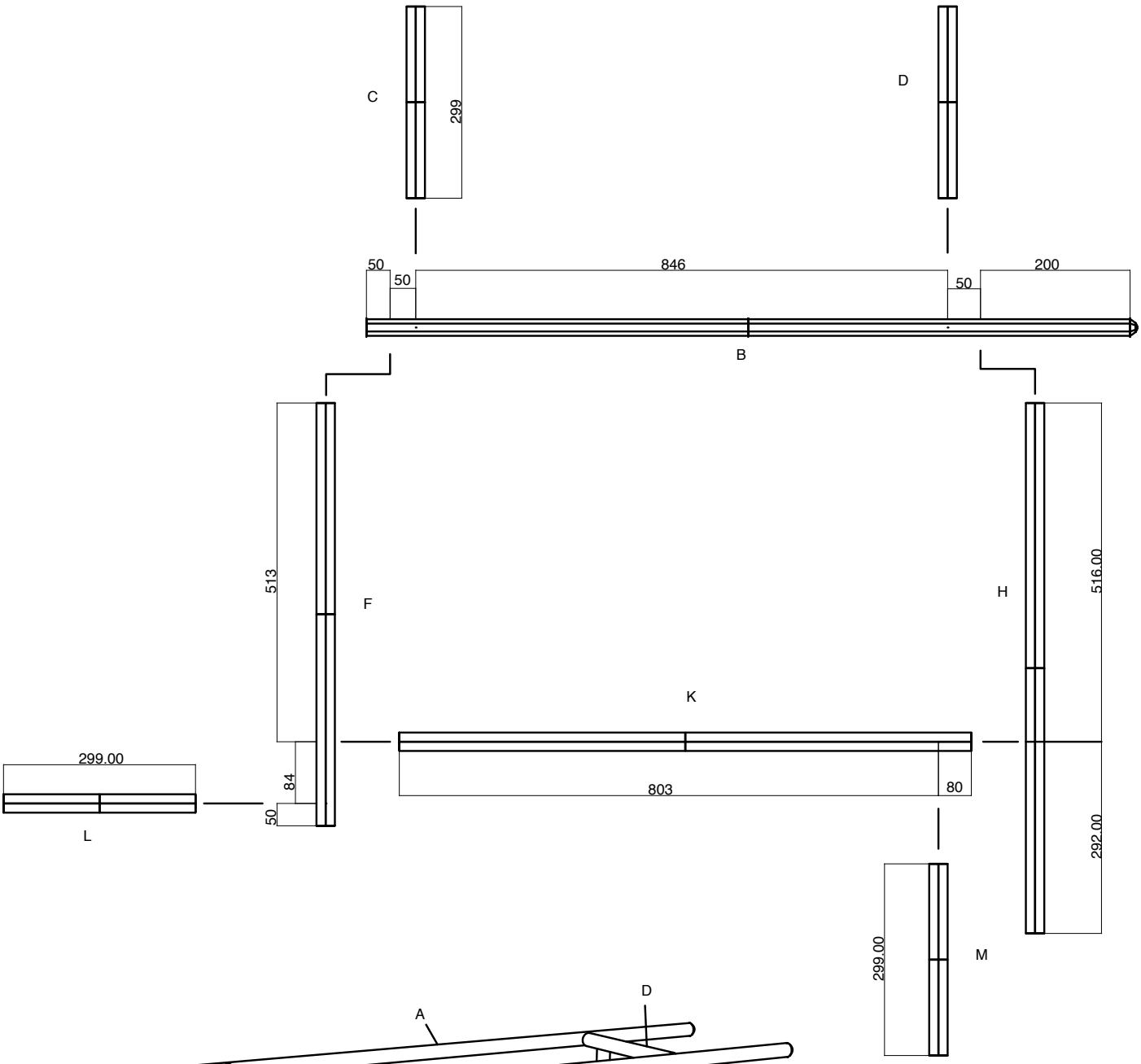
DB07 - DB09 to be made from 20mm by 20mm timber

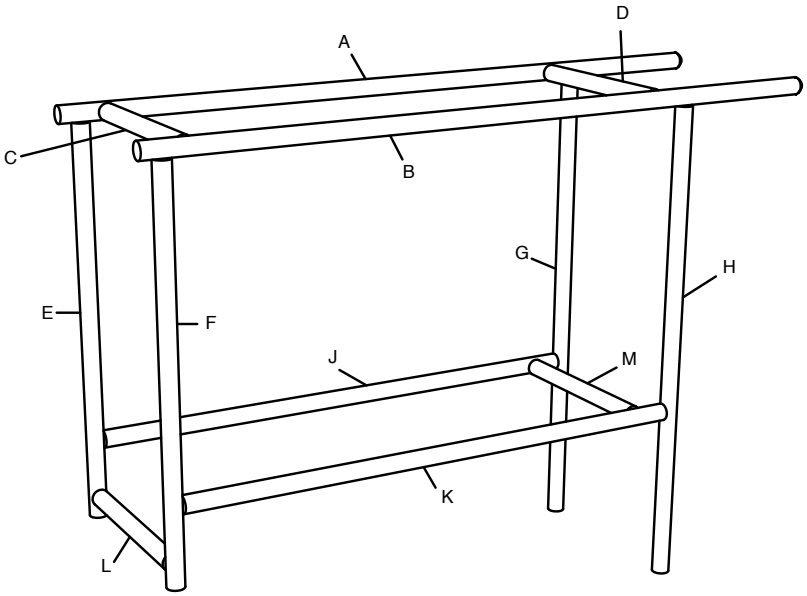


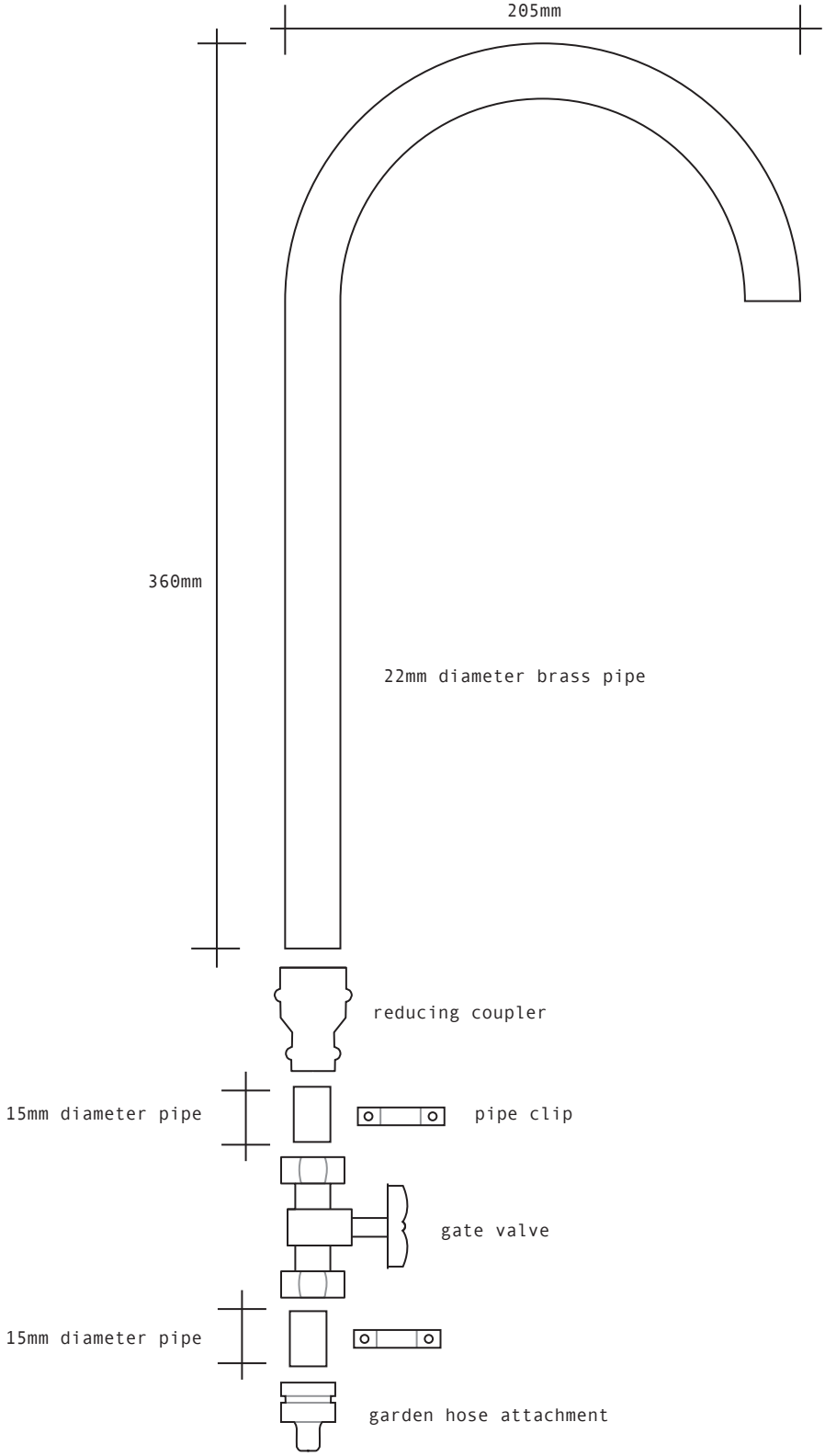
CB01 - CB06 to be made of 6mm Plywood

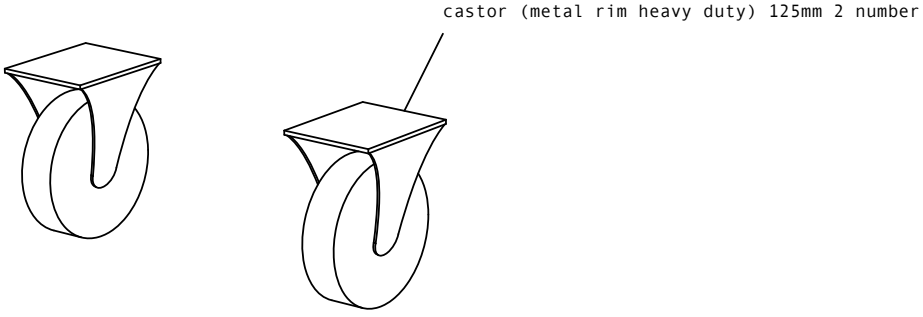
CB01 - CB06 to be mitred on all sides

CB07 - CB09 to be made from 15mm thick timber


C
299
D
50
50
846
50
200
B
513
F
H
516.00
K
299.00
84
50
803
80
292.00
L
299.00
M

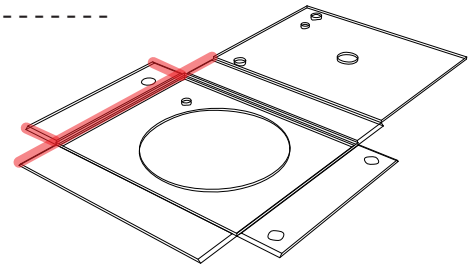

A
D
C
B
G
H
E
F
J
M
K
L


205mm
360mm
22mm diameter brass pipe
reducing coupler
15mm diameter pipe
pipe clip
gate valve
15mm diameter pipe
garden hose attachment

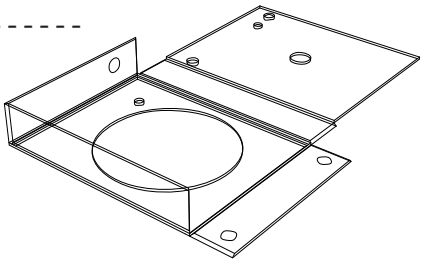

castor (metal rim heavy duty) 125mm 2 number

05 the first stage in making up the boxes is to construct them whilst not attached to the frame. this allows for a neat final construction. as the boxes are first made up, then disassembled before being threaded onto the frame it is important that some of the joints are not glued together. assemble each of the boxes as shown in the indicative sequence shown below. this is for the sink box.

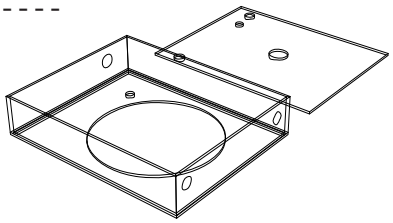
05a lay the box out flat. for sides where there are double battens use selotape to separate the sides that will need to be glued later on in the sequence (indicatively shown in red)



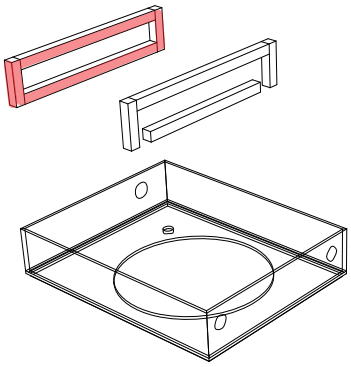
05b fold up the box gluing where required



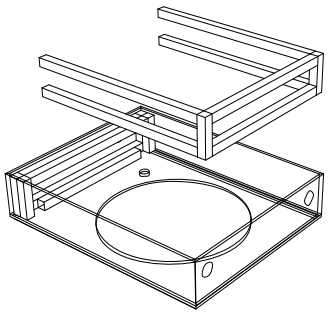
05c test that the bottom of the box fits tightly but do not connect. clamp together and wait till dry



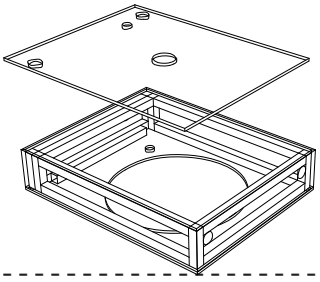
05d fit double battens to end remembering to selotape up where required

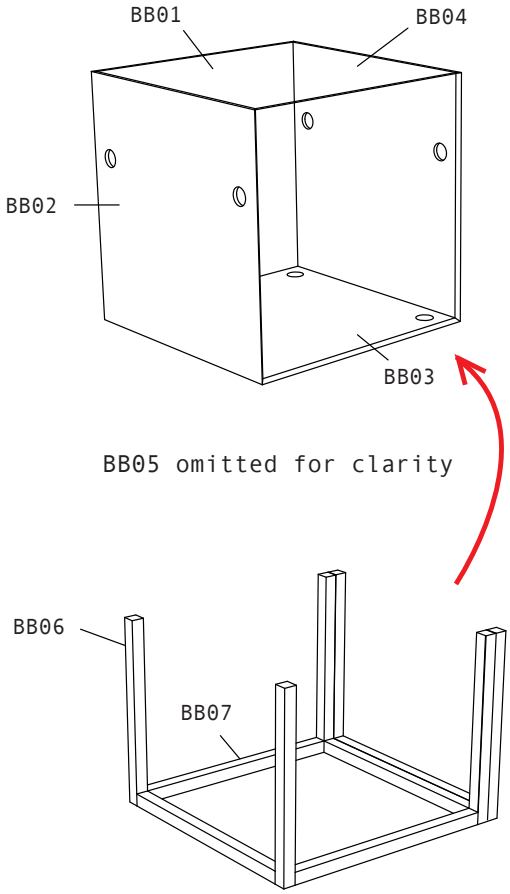


05e fit remaining battens

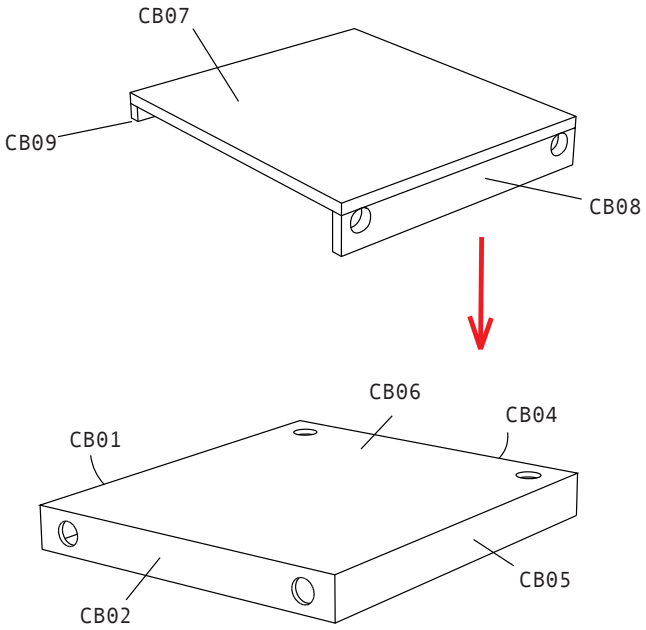


05f for double battons and fixing the bases of the boxes drill the holes in the battons which will later accept the screws.
05f test that the bottom of the box fits tightly but do not connect. clamp together and wait till dry
05g sand all pieces
05h hoover all dust and debris from boxes
05i apply coating of finishing oil/paint as required

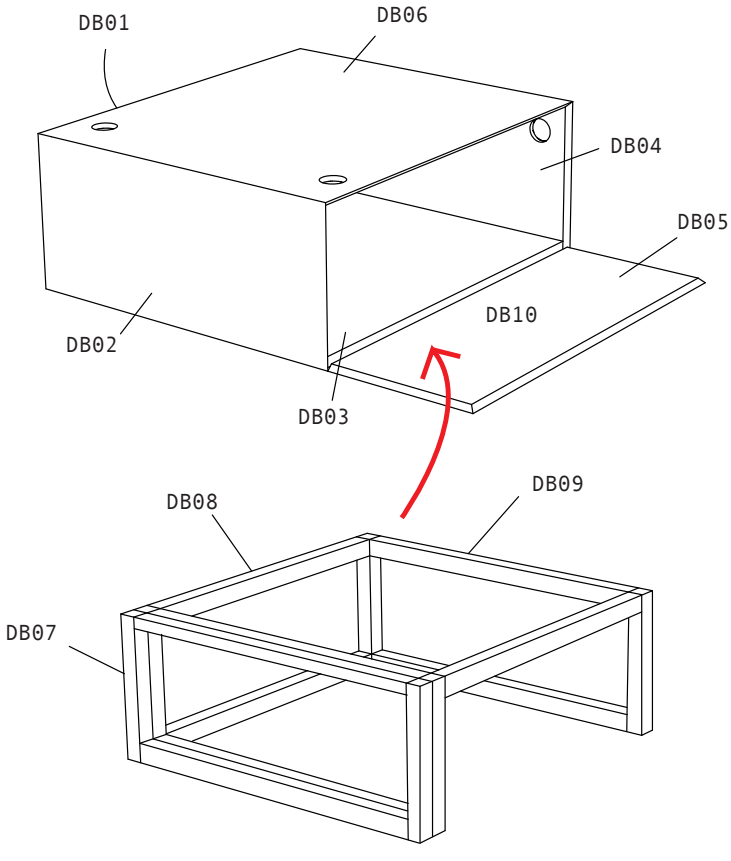




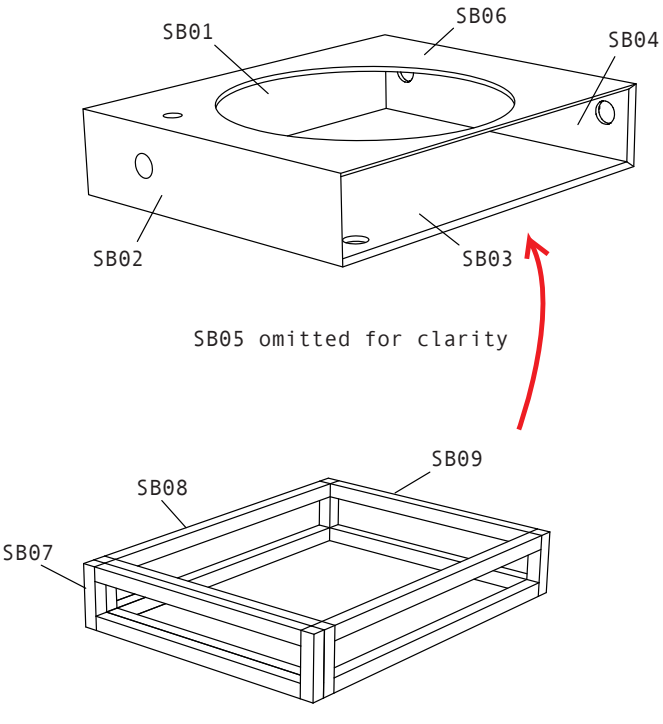
BURNER BOX



CHOPPING BOARD BOX

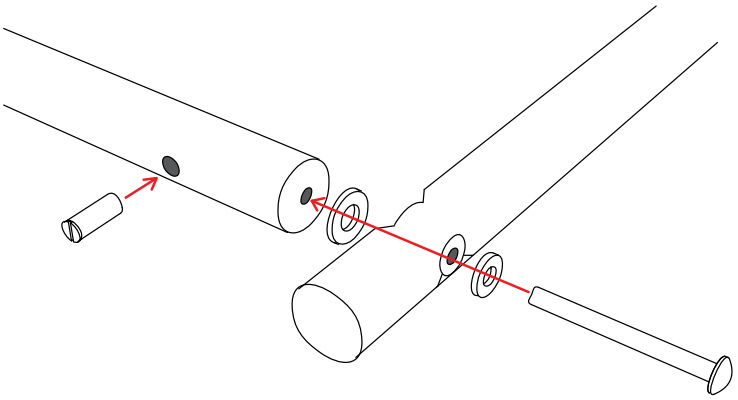


DRAWER BOX

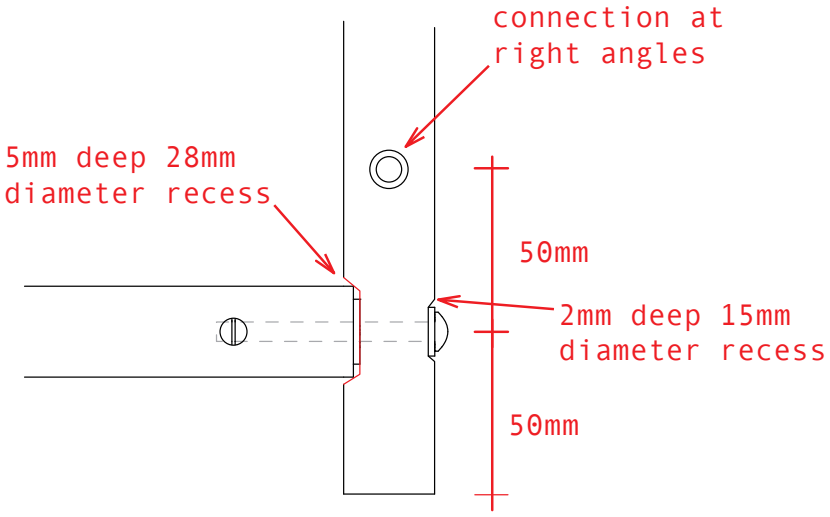


SINK BOX

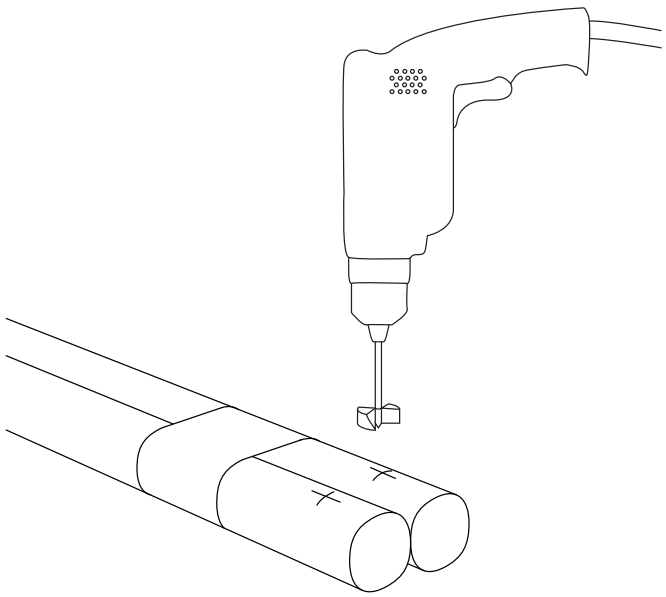
07 making the connections in the frame requires a number of steps. please look at page “frame cutting list” which shows the setting out of the connections in the frame.



07a isometric showing how all the pieces fit together.



07b plan view showing two connections at right angles to one another.

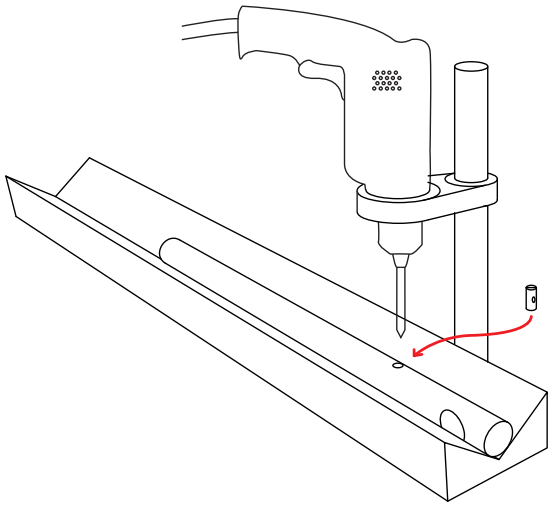


07c mark up where all connections are to be made on all broomsticks. remembering that the connections can on opposite sides of the broomsticks for both sides of the kitchen.

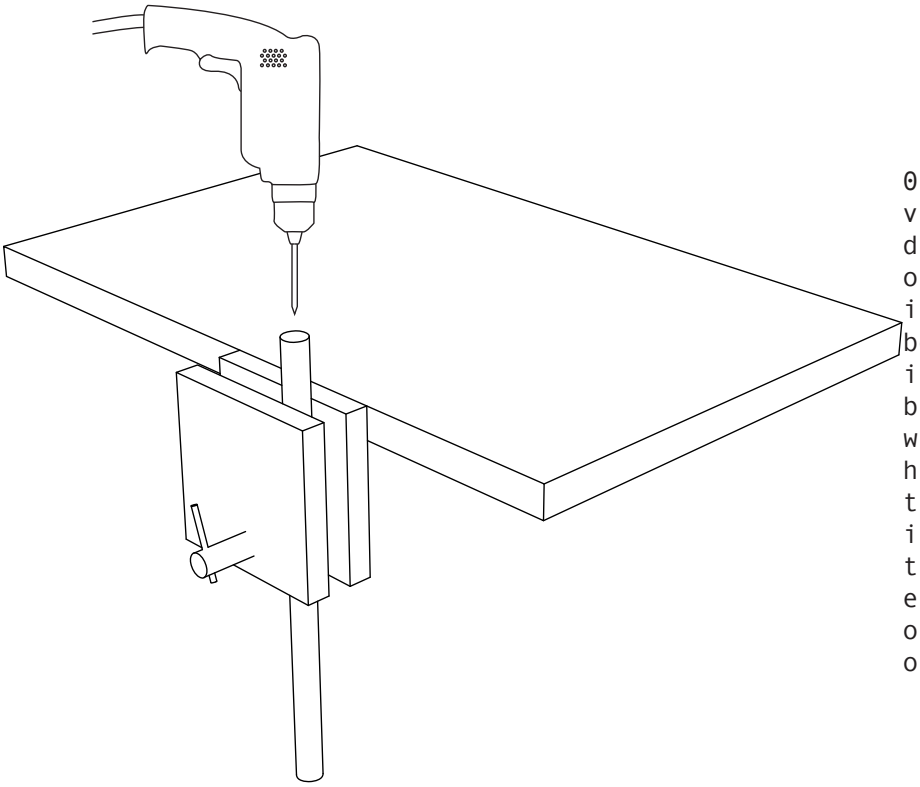
selotape two number broomsticks together to create an element which will not twist during drilling.

drill all large recesses 5mm deep.

07 drilling the holes for the cross dowels and their bolts

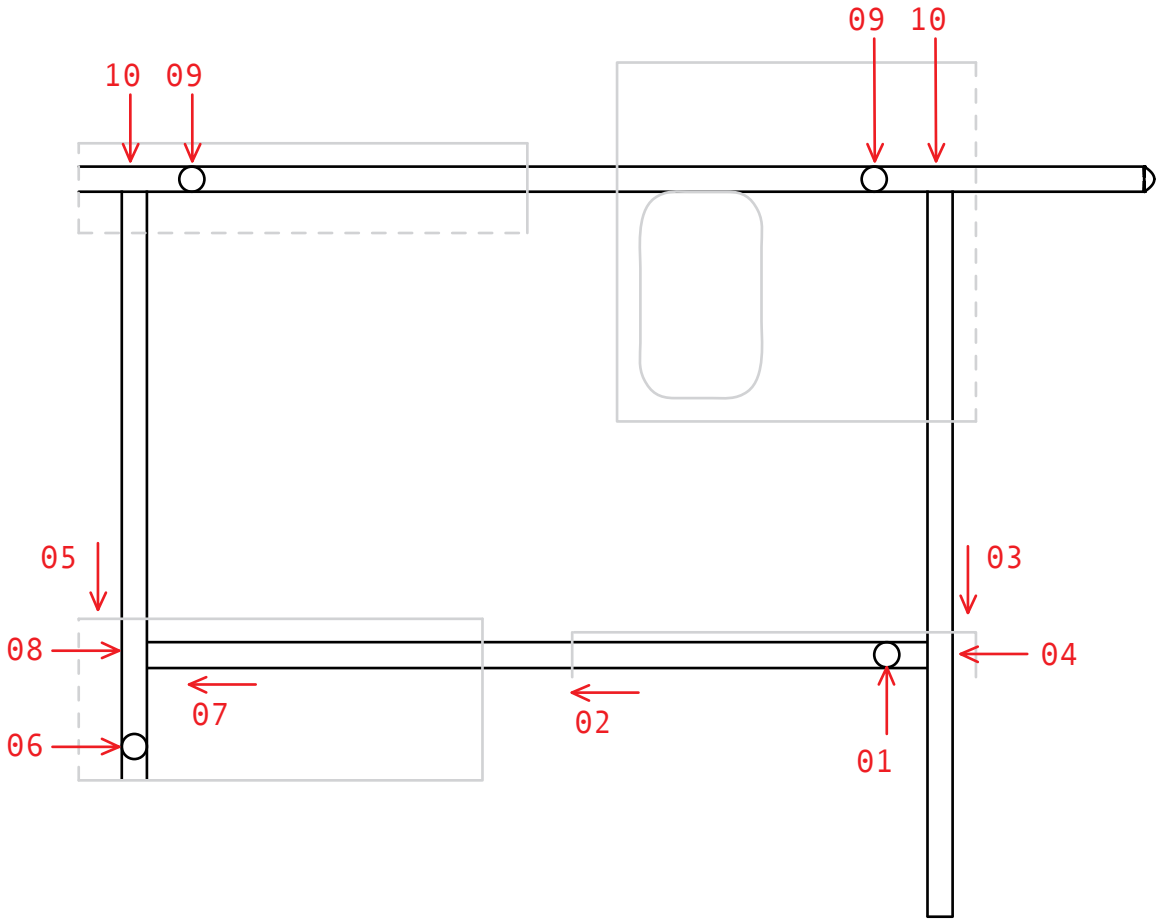


07j using a valley shaped rest to hold the broomstick in place drill the hole for the cross dowel at the correct location.



07k clamp the broomstick vertically in a table vice and drill the hole along the length of the broomstick to allow for insertion of the cross dowel bolt. as you will be drilling into the end grain of the broomstick start each hole with a centre punch. this will help reduce the likelihood of the drill being deflected from its path. great care should be taken whilst drilling into the end of the broomsticks as they or the drill are liable to move or slip during this process.

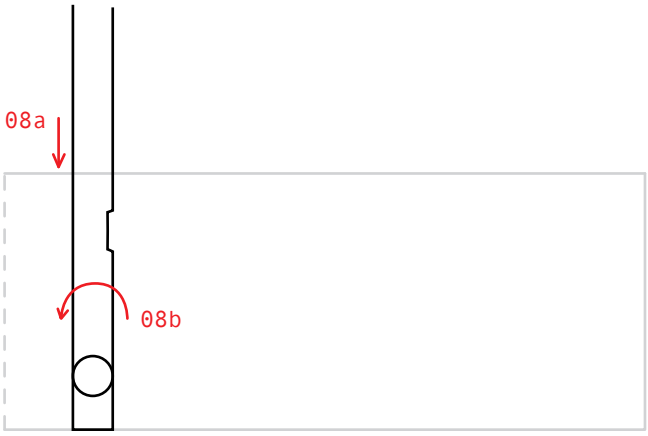
08 - 10 assembling boxes around frame



broom handles
outline of boxes
box sides to be fixed later

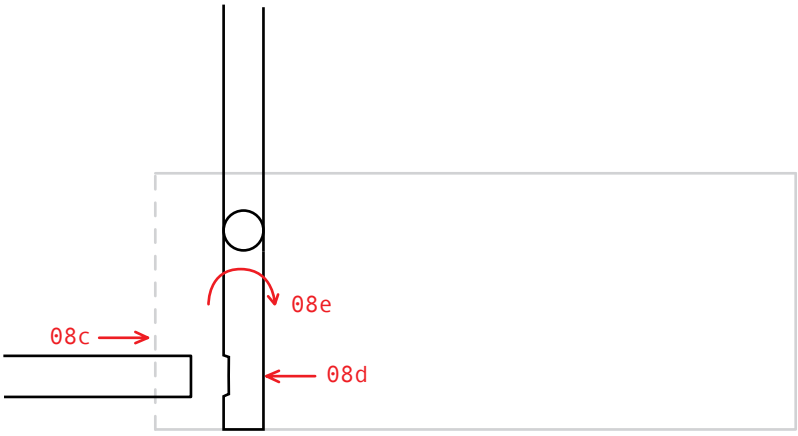
01 connect cross broom m whilst brooms are outside box
02 slide broom construction into box
03 slide brooms h and g into box
04 flex chopping board box up to access connection
05 slide brooms e and f into box
06 connection cross broom l see graphic below
07 slide frame construction into box
08 make connection
09 slide brooms a and b through both burner and sink boxes, shuffle boxes along brooms to access connections
10 shuffle boxes along brooms to access connections
11 using double battons fix sides of boxes remaining

08 - 10 assembling boxes around frame cont.



08a slide broom E into box

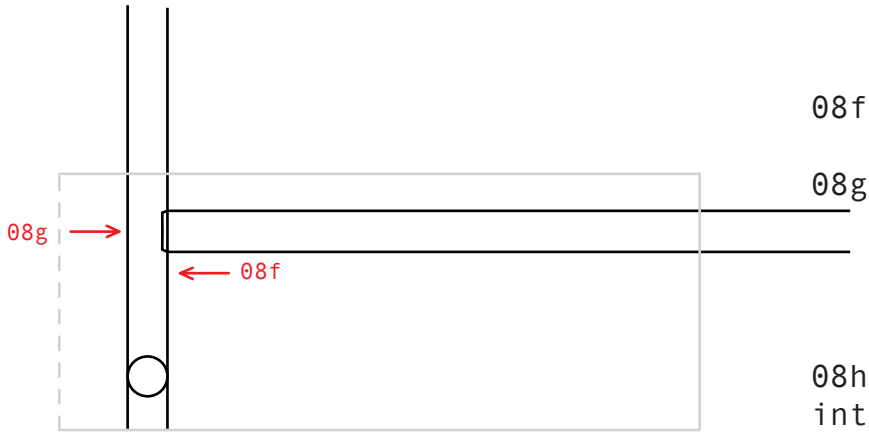
08b rotate so that connection E-L faces outwards



08c position broom L

08d connect brooms E and L

08e rotate through 90 degrees

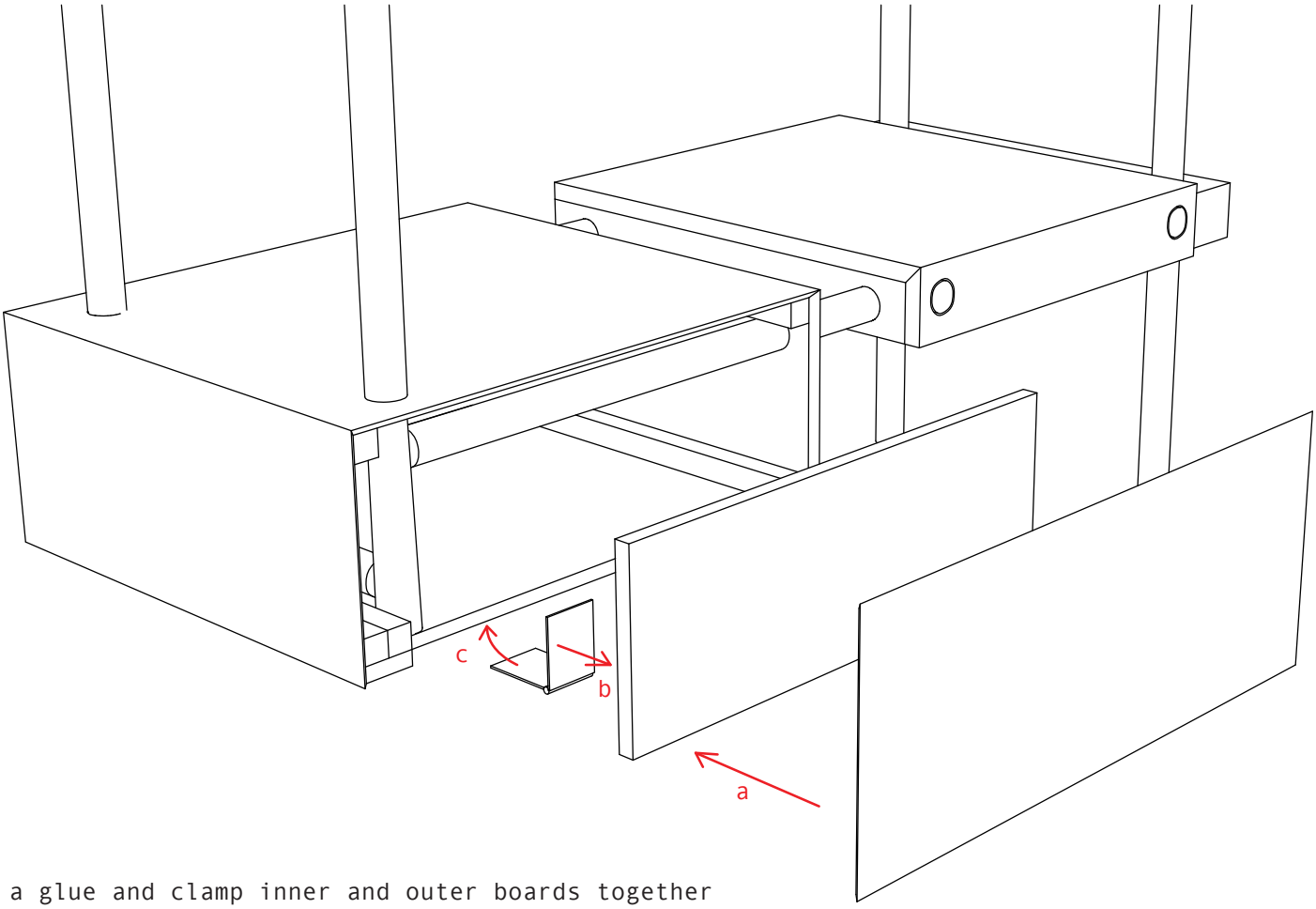


08f slide broom J into box

08g connection brooms E to J

08h slide brooms F and K into box and connect

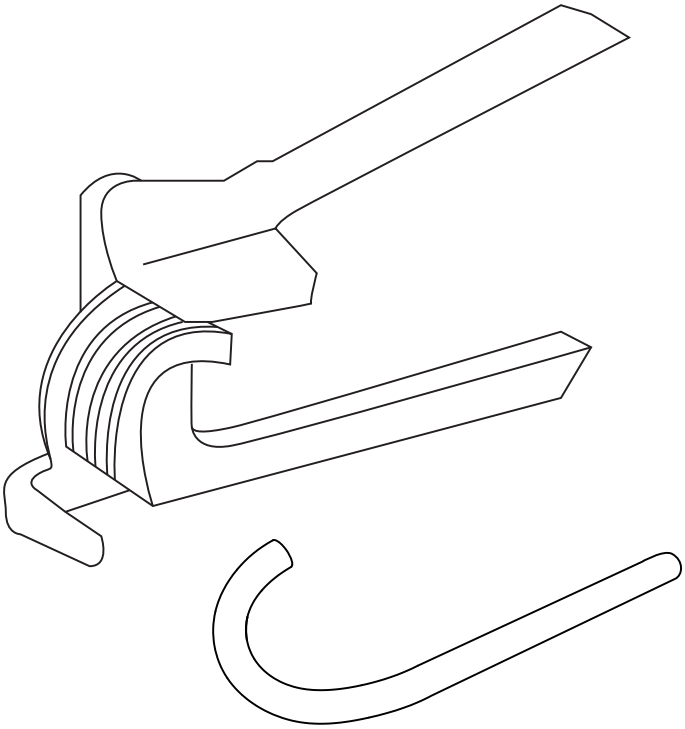
11 fixing the drawer door

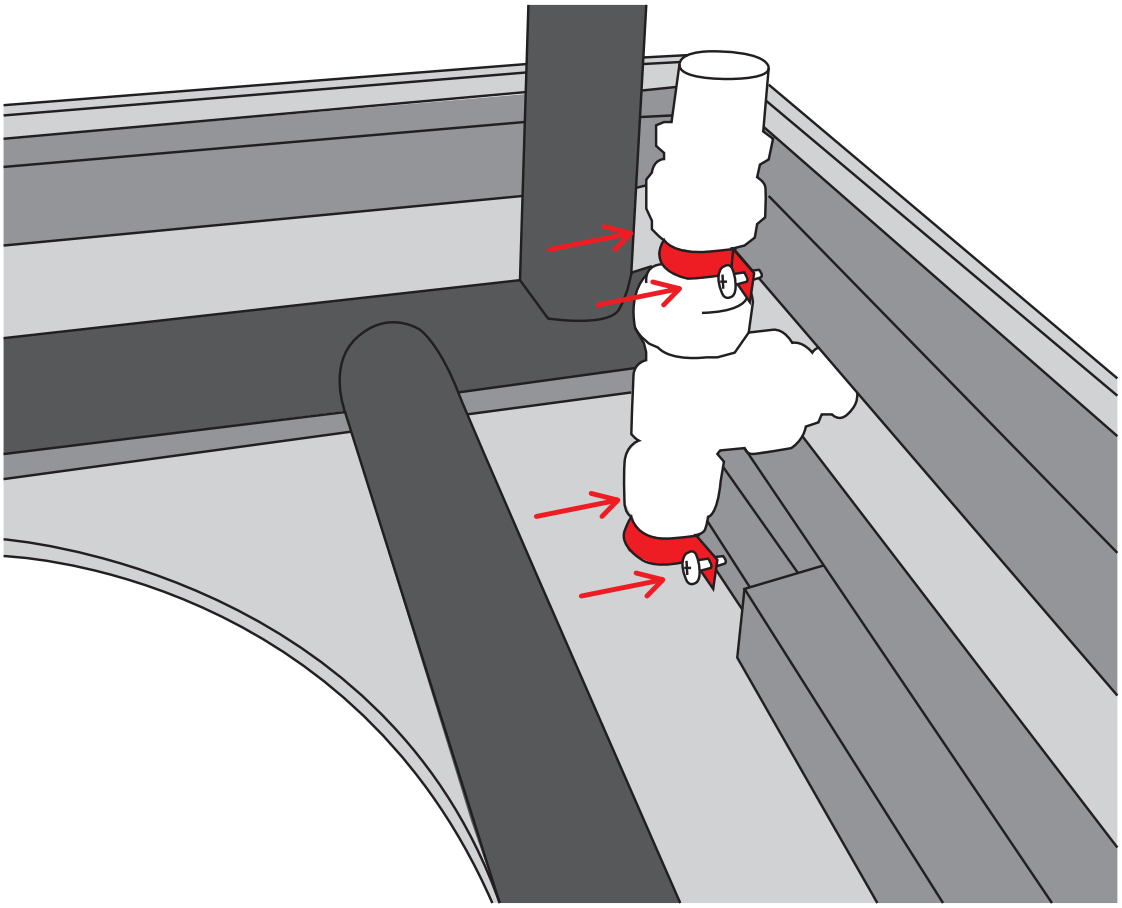


a glue and clamp inner and outer boards together
b screw hinge in upright side of inner board
c screw hinge to underside of base of box

12 plumbing

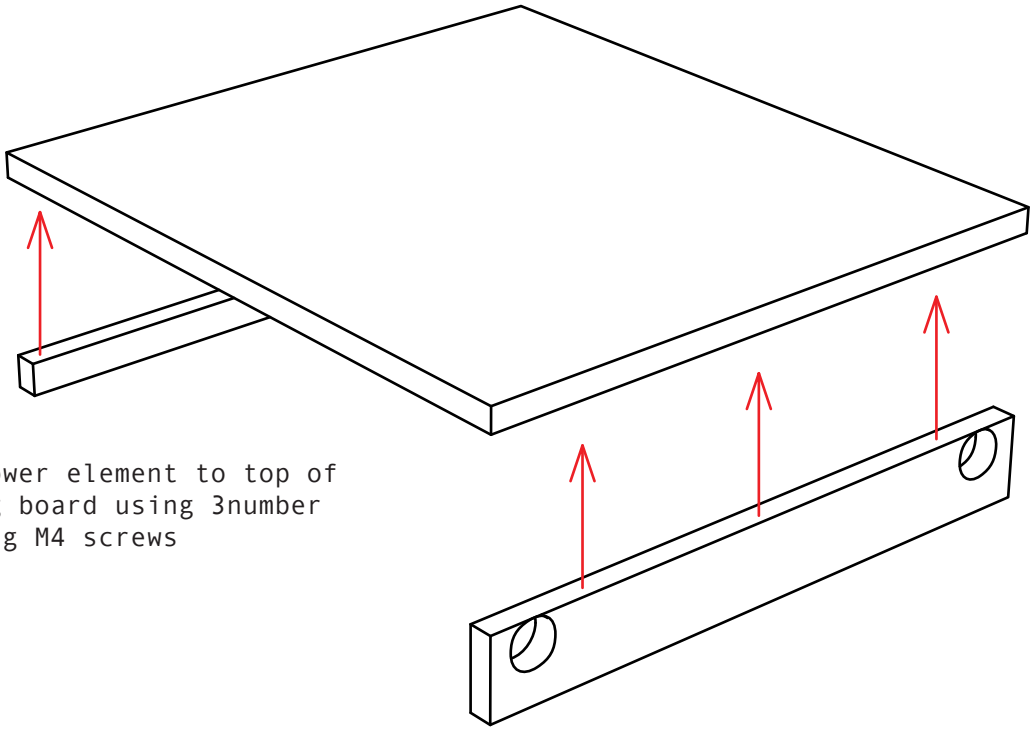
using a pipe bender carefully bend the copper pipe to the required radius. be careful not to crimp the pipe whilst you are bending it.





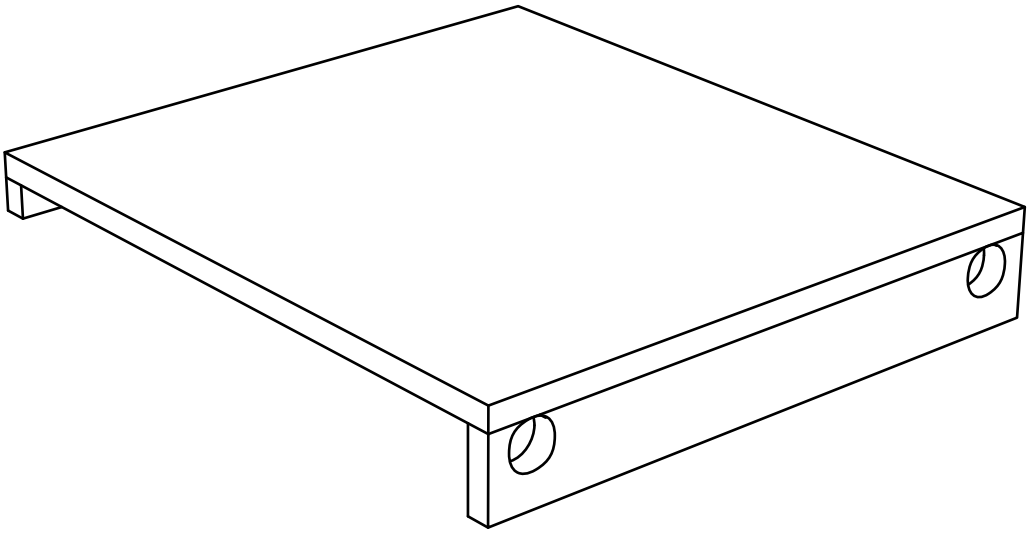
using pipe clips fix the plumbing to the battons with two number screws

13 making the chopping board.

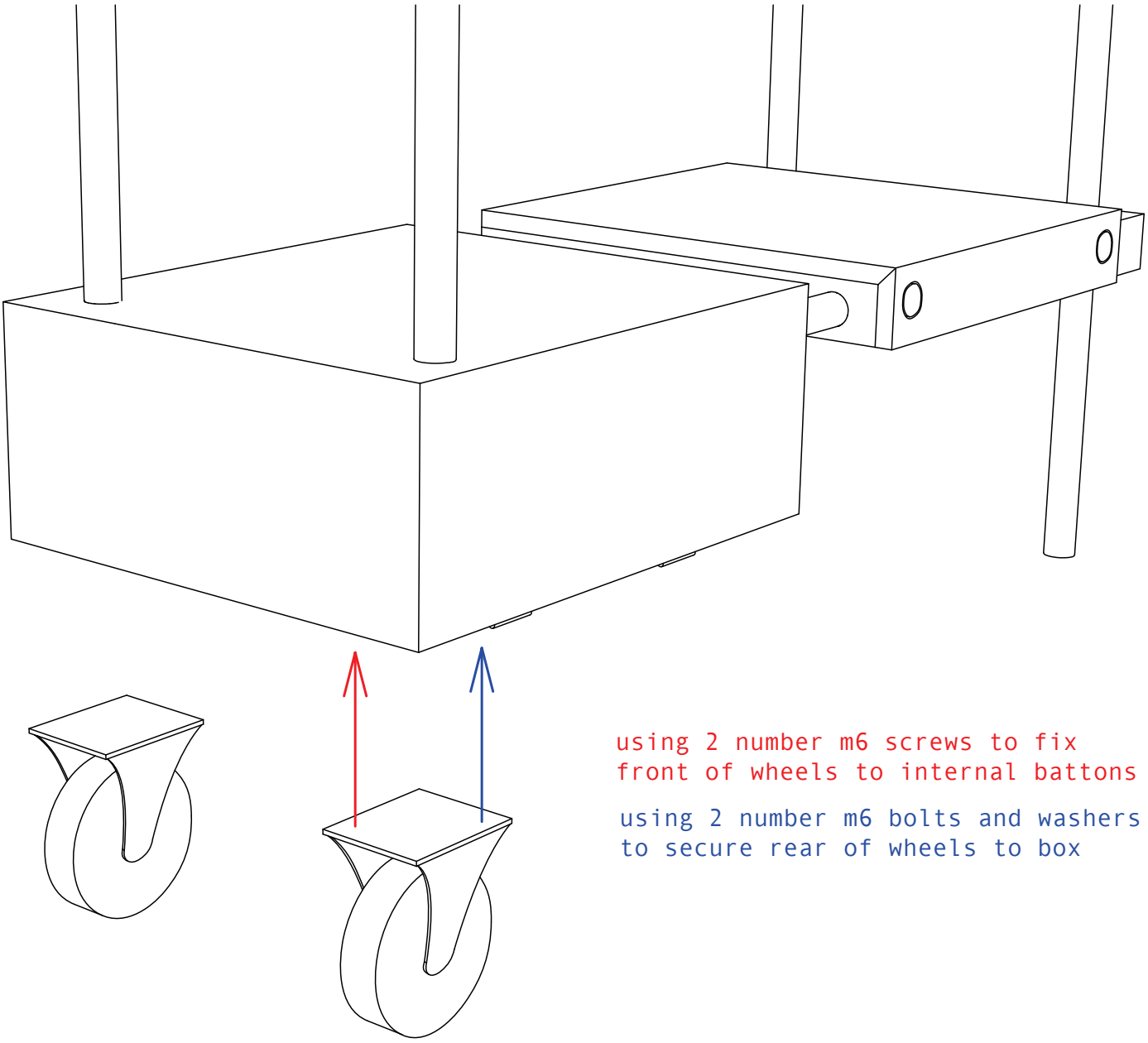


screw lower element to top of chopping board using 3number 25mm long M4 screws

screw lower element to top of chopping board using 4number 55mm long M6 screws



14 attaching the wheels



using 2 number m6 screws to fix
front of wheels to internal battons

using 2 number m6 bolts and washers
to secure rear of wheels to box