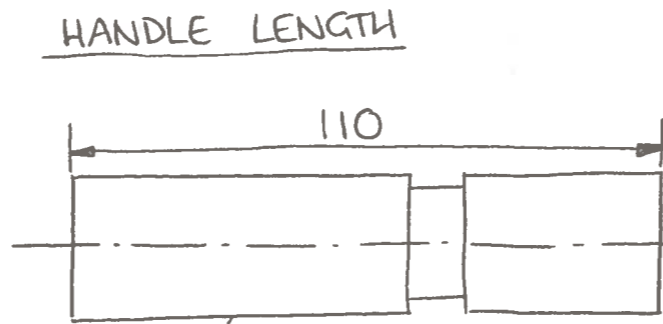
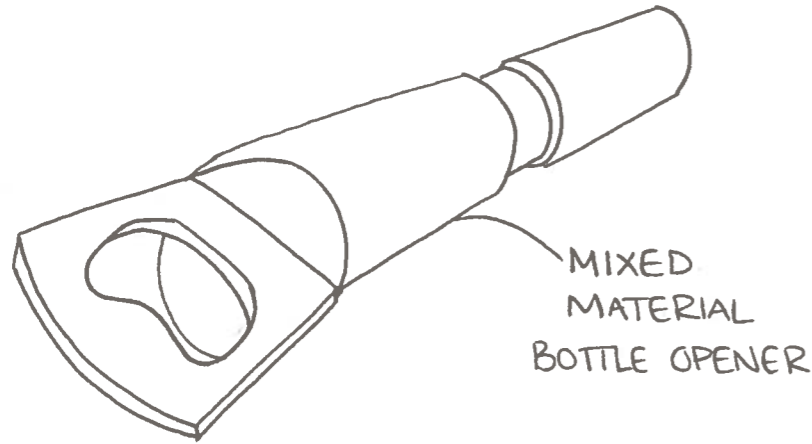
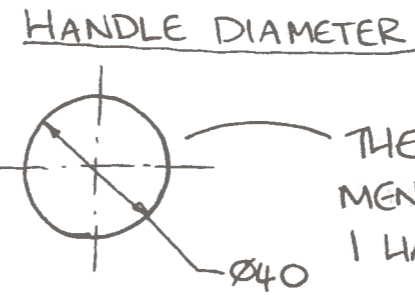


FINAL DESIGN



95TH %ILE MALE HAND BREADTH IS 101mm, I HAVE ROUNDED THIS UP TO 110mm.



MATERIAL OF HANDLE

WOOD OR METAL COULD BE TURNED TO THIS SHAPE.

PINE: LOW COST, EASY TO TURN BUT KNOTTY + FIBEROUS.

ALUMINIUM: MORE EXPENSIVE BUT GIVES A NICER FINISH.

MAPLE: HARDWOOD WITH PALE COLOUR TO CONTRAST ALUMINIUM TOP.

FINISHED WITH DANISH OIL AND WAX TO GIVE SMOOTH, WATER RESISTANT SURFACE.

SIZE/SHAPE OF TOP/OPENER

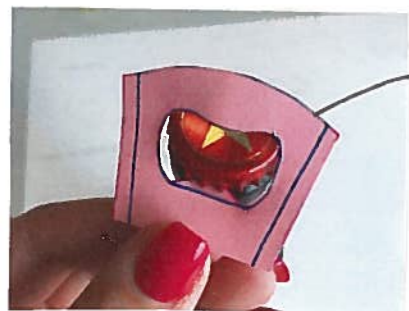


MODEL OF TOP



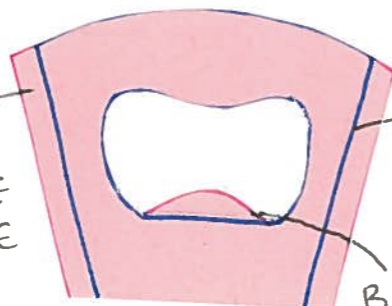
MODEL OF EXISTING SHAPE SLIPS OFF TOP AND WOULD BEND THE SIDES.

ALSO NOTICED THE SIDES ARE A LITTLE TOO THIN AND MAY BE WEAK.



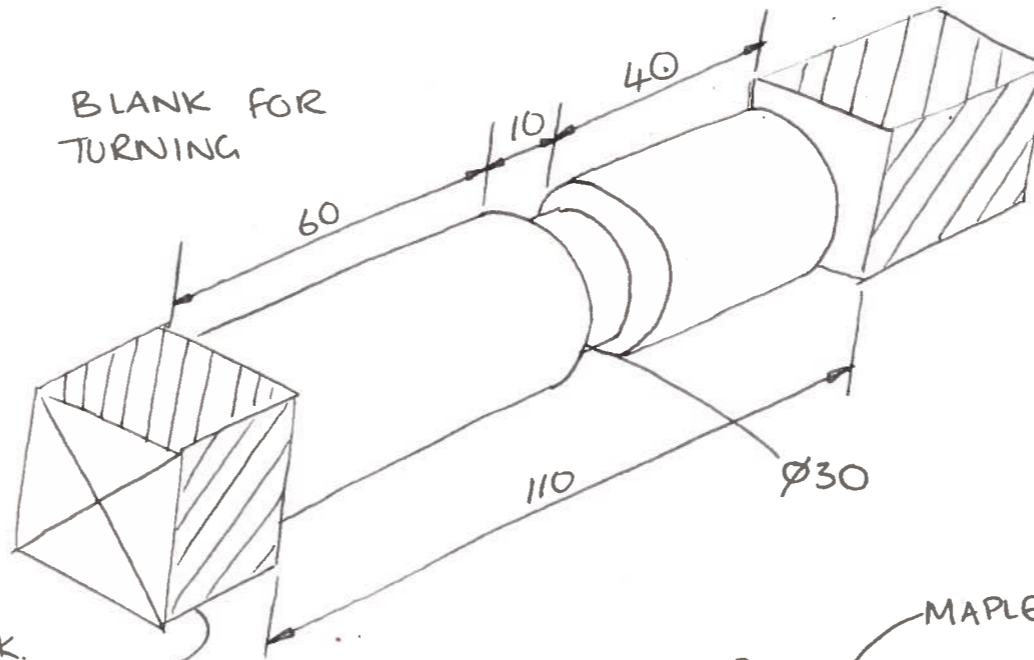
GOOD SHAPE.

TEMPLATE FOR SHAPE OF TOP.



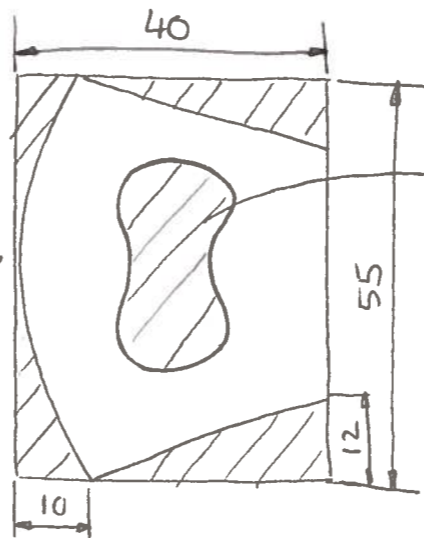
NEW THICKER SIDES

BIGGER LIP TO CATCH ON LID.



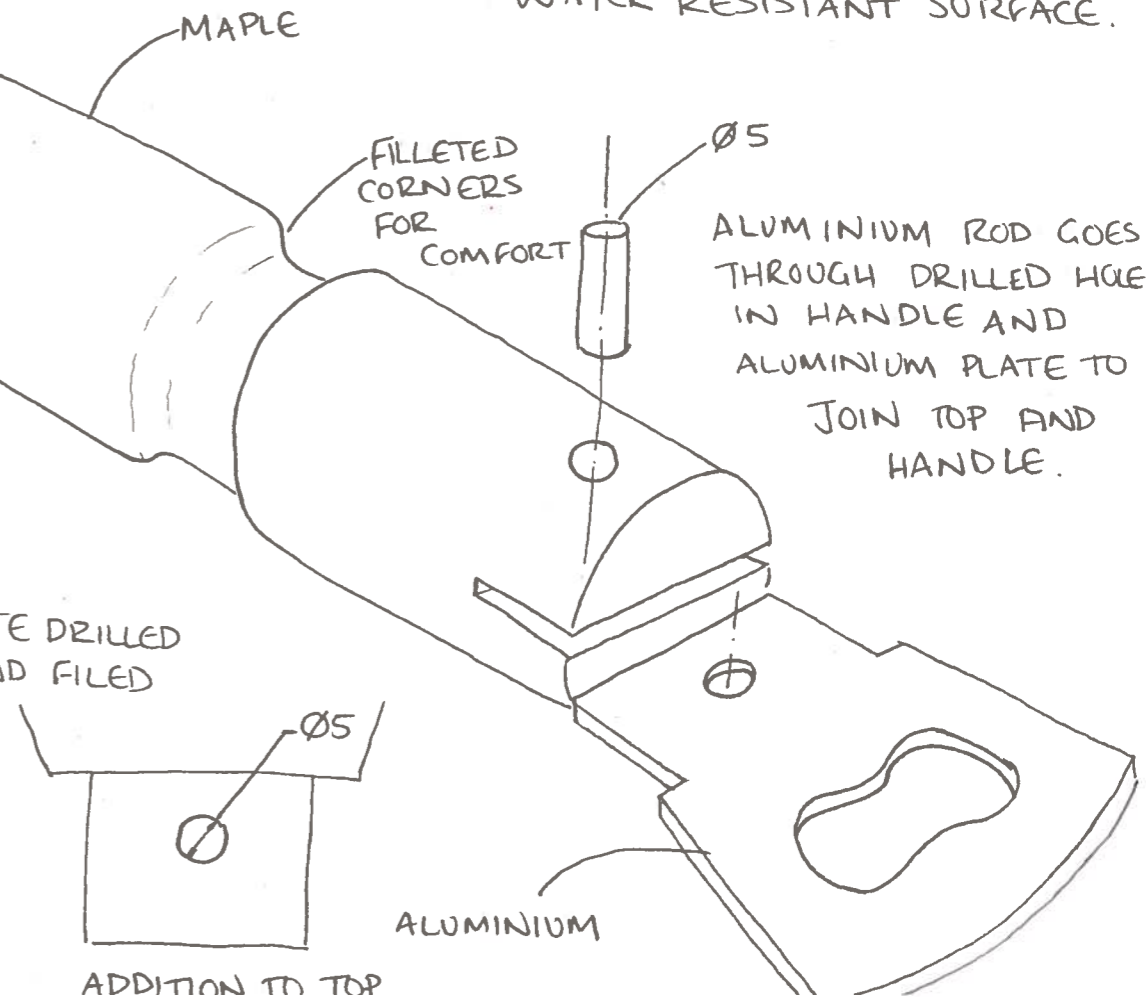
WASTE SECTIONS

WASTE MATERIAL REMOVED USING FLAT FILE



3mm SHEET IN SCHOOL STORE.

WASTE DRILLED OUT AND FILED



FILLETED CORNERS FOR COMFORT

ALUMINIUM ROD GOES THROUGH DRILLED HOLE IN HANDLE AND ALUMINIUM PLATE TO JOIN TOP AND HANDLE.

ALUMINIUM

ADDITION TO TOP

MATERIAL OPTIONS

ALUMINIUM: WON'T RUST WHEN WET FROM DRINK SHEET RELATIVELY LOW COST + EASY TO WORK.

MILD STEEL: NEEDS FINISH APPLIED (COULD ADD TO SHEET AESTHETIC APPEAL), STRONGER THAN ALUMINIUM.