

**alor**

**x**

**BEL WILLIAMS**  
ASSEMBLY INSTRUCTIONS

# **DO IT OURSELVES**

## **THE DESIGN BRIEF**

Each 'Do It Ourselves' project has been crafted by local designers using materials sourced entirely from their local hardware store, often from Bunnings. These designs serve as a challenge to inspire the public to get hands-on and create their own furniture pieces.

Each project has been designed to require only basic hand tools, making them accessible for anyone with a basic skill level. Additionally, all projects have been developed with a cost cap of \$150, ensuring they remain affordable and achievable for everyone

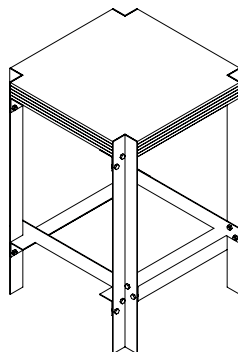


## **ABOUT THE DESIGNER**

Bel Williams is a furniture and object designer from Aotearoa, based in Naarm/Melbourne. With a background in industrial design, Bel launched her studio practice in 2022. An ongoing exploration that moves freely between materials and grounds itself in the playful manipulation of balance, weight and form.

## **ABOUT THE DESIGN**

Approaching the hardware shop like a giant Lego store, I've used the most fundamental construction techniques, expressing the joins and fixings as design elements with a piece that nods toward its more exclusive counterparts. Stacked cork floor tiles stand in for a seat cushion substrate, propped up with butt joined aluminium extrusions to make a stool that looks fancy if you squint your eyes.



## COMPONENTS

1X Metal Mate 30 x 30 x 1.5mm 3m Aluminium Angle - Silver

2X Metal Mate 32 x 3mm 1m Aluminium Flat Bar

305 x 305 x 6mm Natural Cork Tile - 6 Pack

X5 packets of M5 x 10mm Stainless Steel Hex Head Bolts And Nuts - 8 Pack

Total Purchase price \$122.65

## TOOLS NEEDED

Stanley knife

8-11mm Hole Punch (8mm Drill bit will work but will create a rough frayed edge)

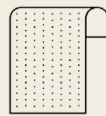
Cut Off Saw - Hack Saw

Drill

8mm and 5mm Drill Bits

Sandpaper

Ruler



## CUT LIST

1 X 3M LENGTH OF 30X30 ALUMINIUM EQUAL LENGTH;

440MM X4

305MM X4

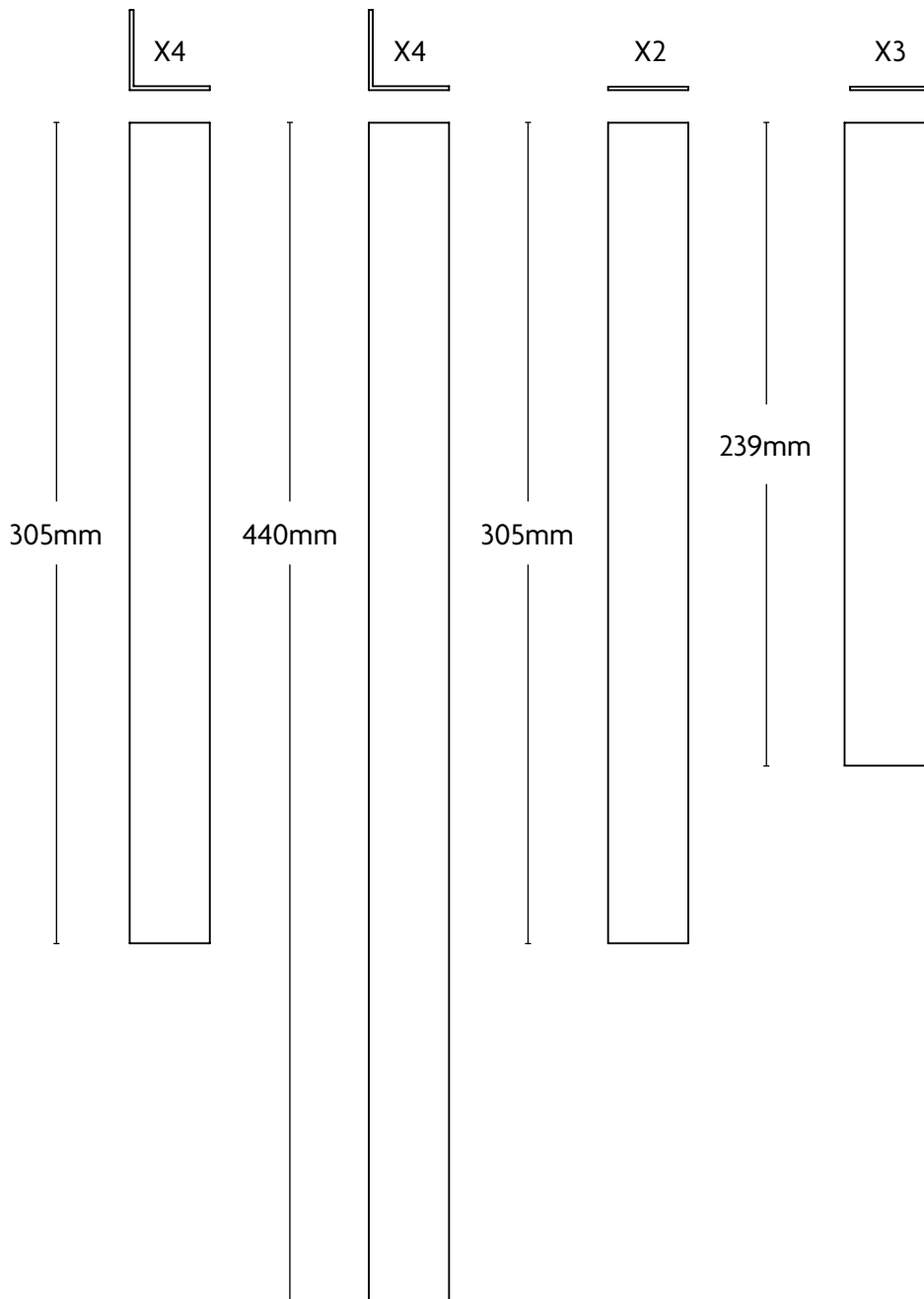
*= 2980 used + 20mm tolerance for cutting, my blade was 2.5mm wide, if using a wider blade will need to reduce chair height slightly as it's down to the wire on offcut!*

2 X 1M LENGTHS OF 32MM ALUMINIUM FLAT BAR;

239MM X3

305MM X2

*= 1327mmL, 673mm offcut to use for cut tolerance, practising and drilling templates*

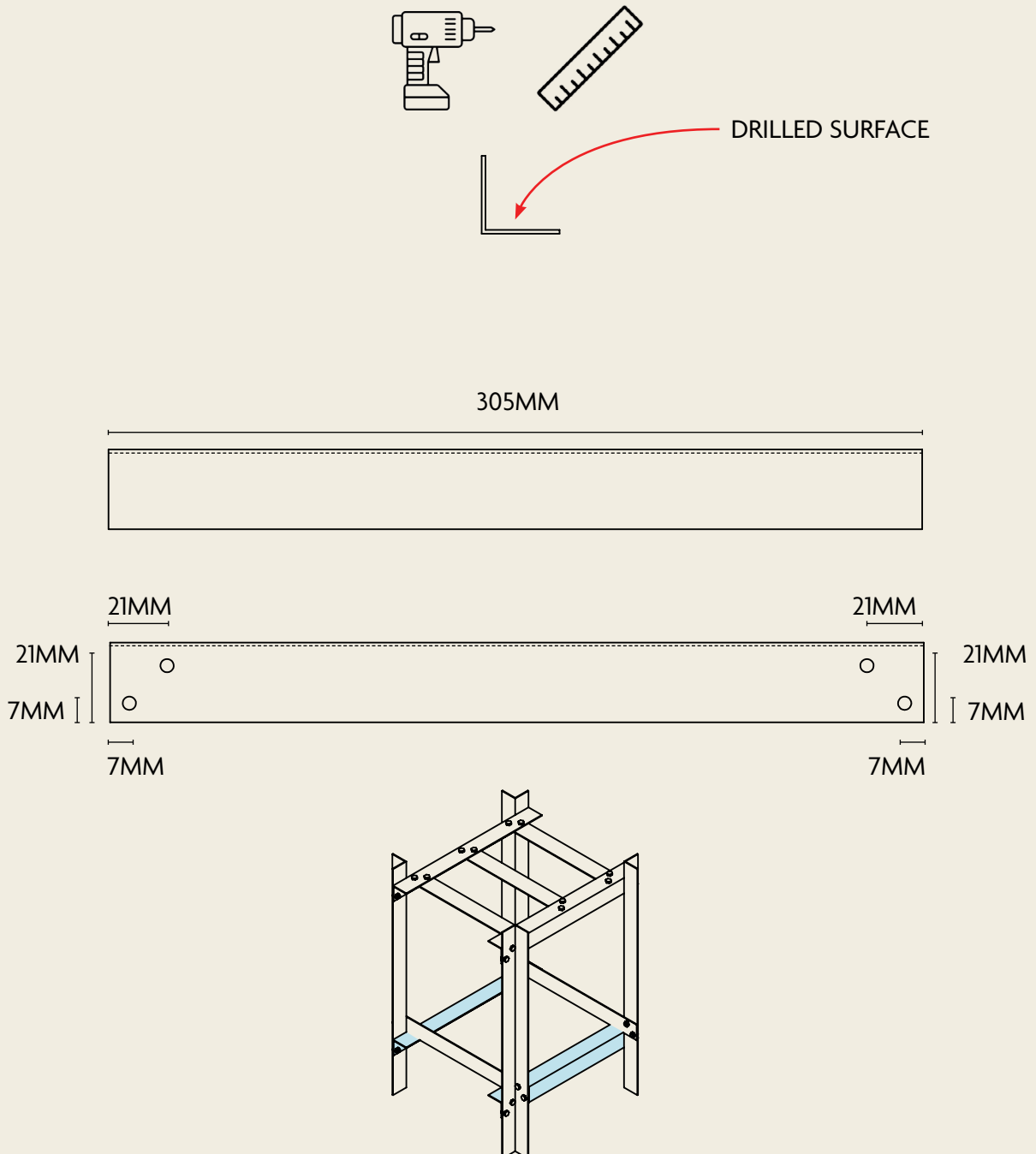


## STEP 1

(A) ONCE ALL THE LENGTHS ARE CUT TO THE SPECIFIED DIMENSIONS, WE NEED TO DRILL ALL THE HOLE LOCATIONS TO ALLOW THESE COMPONENTS TO SCREW TOGETHER.

USING A PENCIL AND THE BELOW DRAWINGS MARK OUT EACH DRILL LOCATION ON THE **TWO** HIGHLIGHTED RAILS IN BLUE AND DRILL OUT EACH HOLE.

TIP: FOR GREATER ACCURACY, OVERLAP THE CORRESPONDING SHEET OF ALUMINUM AND CLAMP THESE TOGETHER. THIS WAY YOU CAN DRILL TWO HOLES AT ONCE AND THEY WILL ALIGN PERFECTLY.

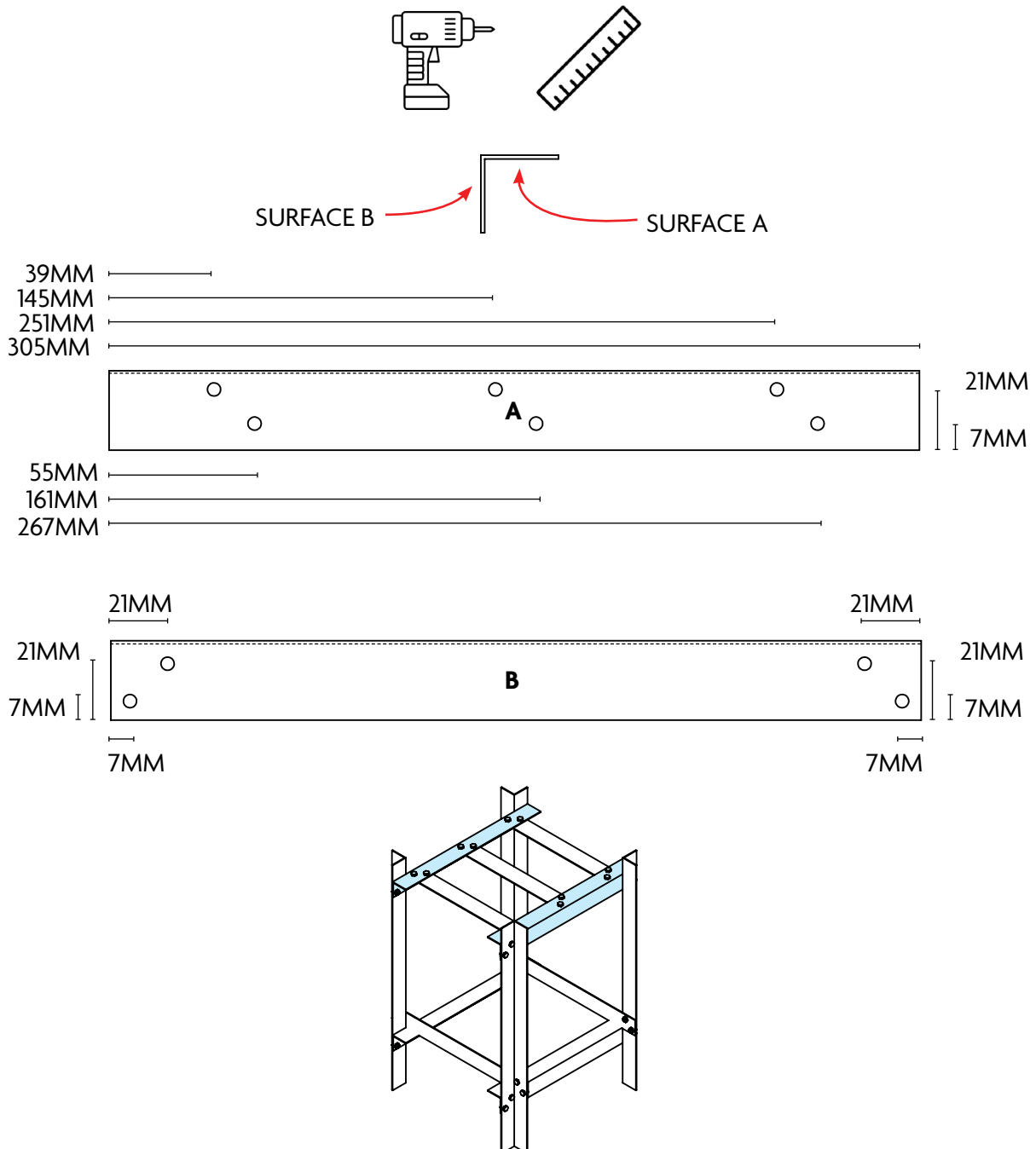


## STEP 2

(B) ONCE ALL THE LENGTHS ARE CUT TO THE SPECIFIED DIMENSIONS, WE NEED TO DRILL ALL THE HOLE LOCATIONS TO ALLOW THESE COMPONENTS TO SCREW TOGETHER.

USING A PENCIL AND THE BELOW DRAWINGS MARK OUT EACH DRILL LOCATION ON THE **TWO** HIGHLIGHTED RAILS IN BLUE AND DRILL OUT EACH HOLE.

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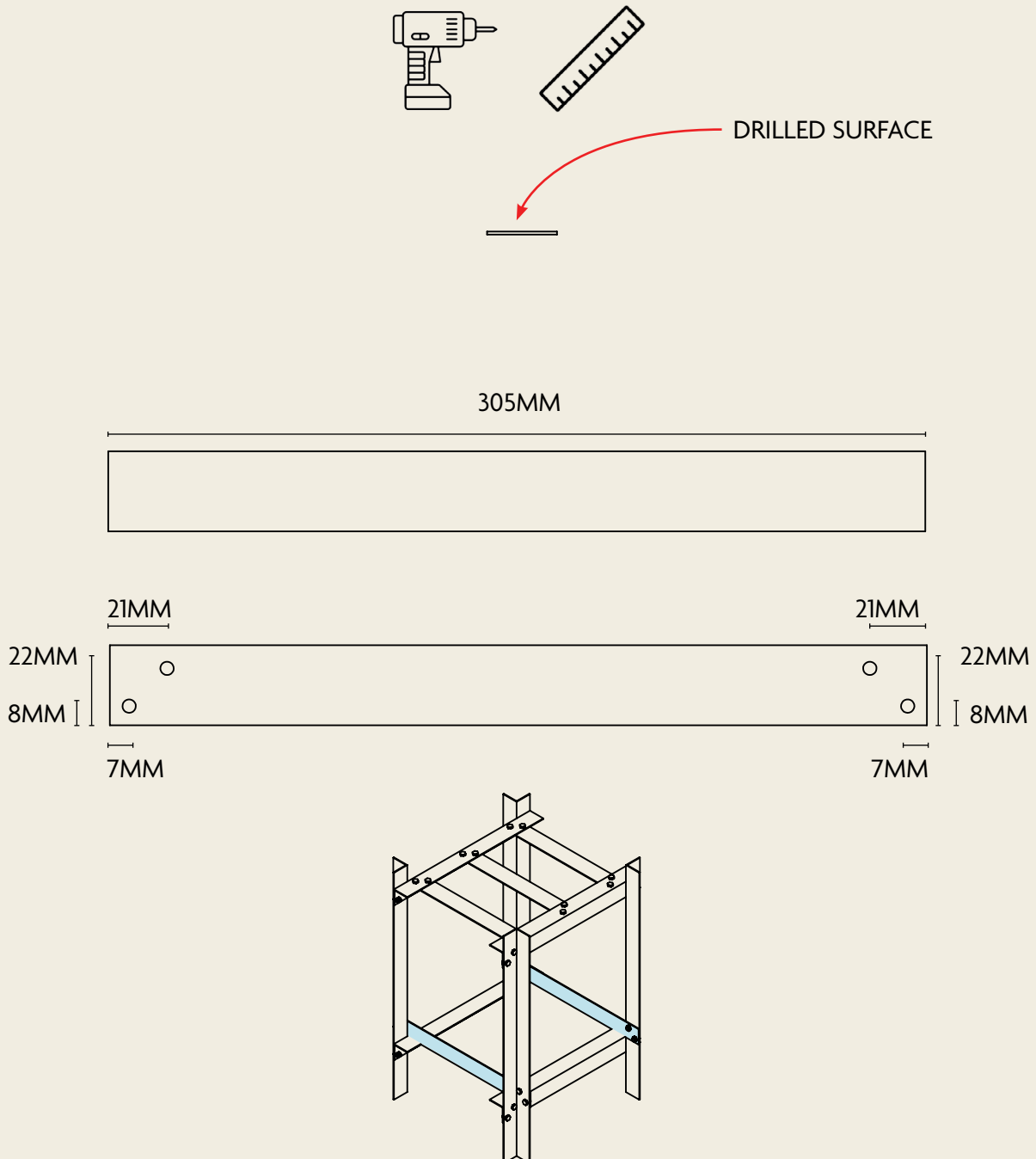


### STEP 3

(C) ONCE ALL THE LENGTHS ARE CUT TO THE SPECIFIED DIMENSIONS, WE NEED TO DRILL ALL THE HOLE LOCATIONS TO ALLOW THESE COMPONENTS TO SCREW TOGETHER.

USING A PENCIL AND THE BELOW DRAWINGS MARK OUT EACH DRILL LOCATION ON THE **TWO** HIGHLIGHTED RAILS IN BLUE AND DRILL OUT EACH HOLE.

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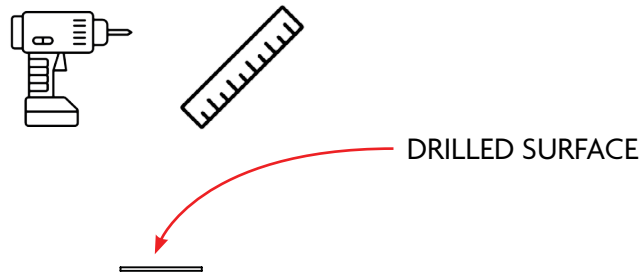


## STEP 4

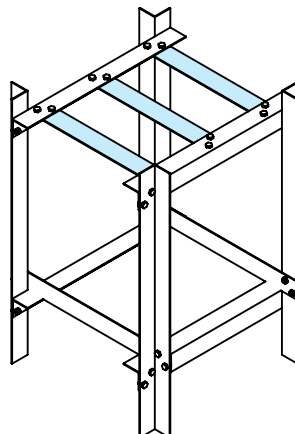
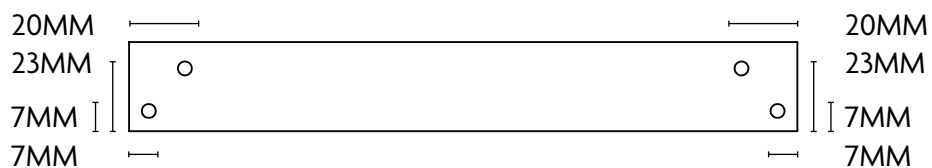
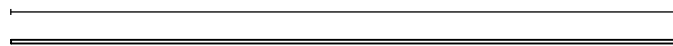
(D) ONCE ALL THE LENGTHS ARE CUT TO THE SPECIFIED DIMENSIONS, WE NEED TO DRILL ALL THE HOLE LOCATIONS TO ALLOW THESE COMPONENTS TO SCREW TOGETHER.

USING A PENCIL AND THE BELOW DRAWINGS MARK OUT EACH DRILL LOCATION ON THE **THREE** HIGHLIGHTED RAILS IN BLUE AND DRILL OUT EACH HOLE.

TIP: FOR GREATER ACCURACY, OVERLAP THE CORRESPONDING SHEET OF ALUMINUM AND CLAMP THESE TOGETHER. THIS WAY YOU CAN DRILL TWO HOLES AT ONCE AND THEY WILL ALSO ALIGN PERFECTLY.



239MM

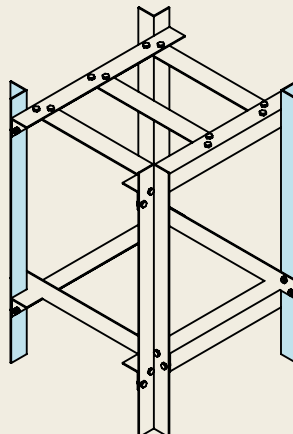
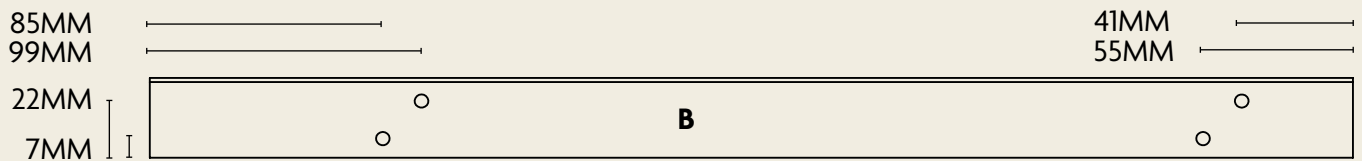
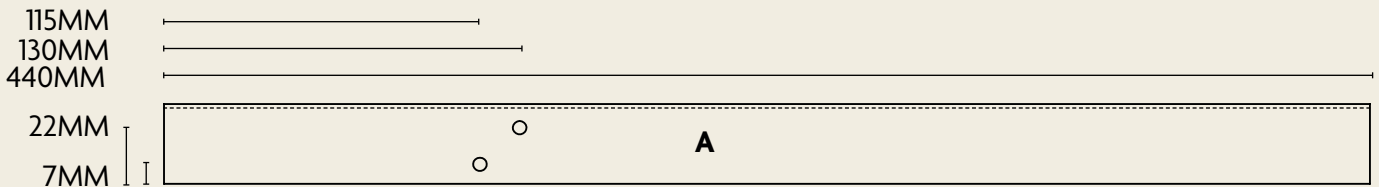
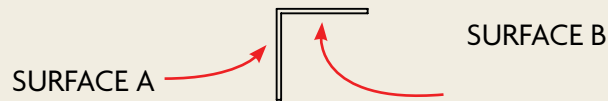
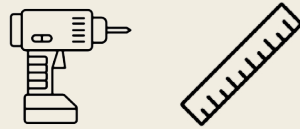


## STEP 5

(E) ONCE ALL THE LENGTHS ARE CUT TO THE SPECIFIED DIMENSIONS, WE NEED TO DRILL ALL THE HOLE LOCATIONS TO ALLOW THESE COMPONENTS TO SCREW TOGETHER.

USING A PENCIL AND THE BELOW DRAWINGS MARK OUT EACH DRILL LOCATION ON THE **TWO** HIGHLIGHTED RAILS IN BLUE AND DRILL OUT EACH HOLE.

TIP: FOR GREATER ACCURACY, OVERLAP THE CORRESPONDING SHEET OF ALUMINUM AND CLAMP THESE TOGETHER. THIS WAY YOU CAN DRILL TWO HOLES AT ONCE AND THEY WILL ALSO ALIGN PERFECTLY.

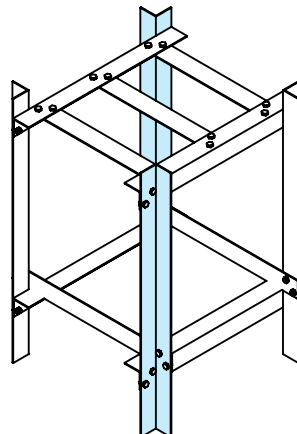
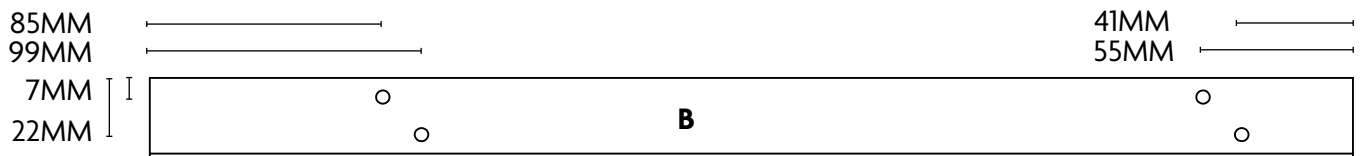
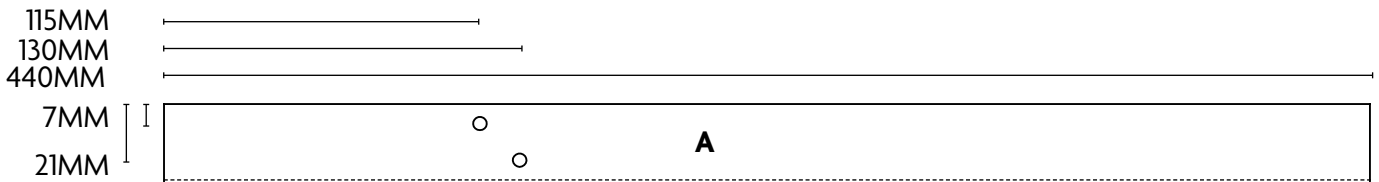
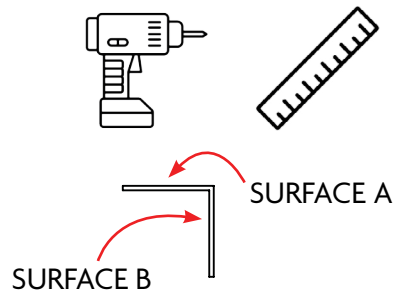


## STEP 6

(F) ONCE ALL THE LENGTHS ARE CUT TO THE SPECIFIED DIMENSIONS, WE NEED TO DRILL ALL THE HOLE LOCATIONS TO ALLOW THESE COMPONENTS TO SCREW TOGETHER.

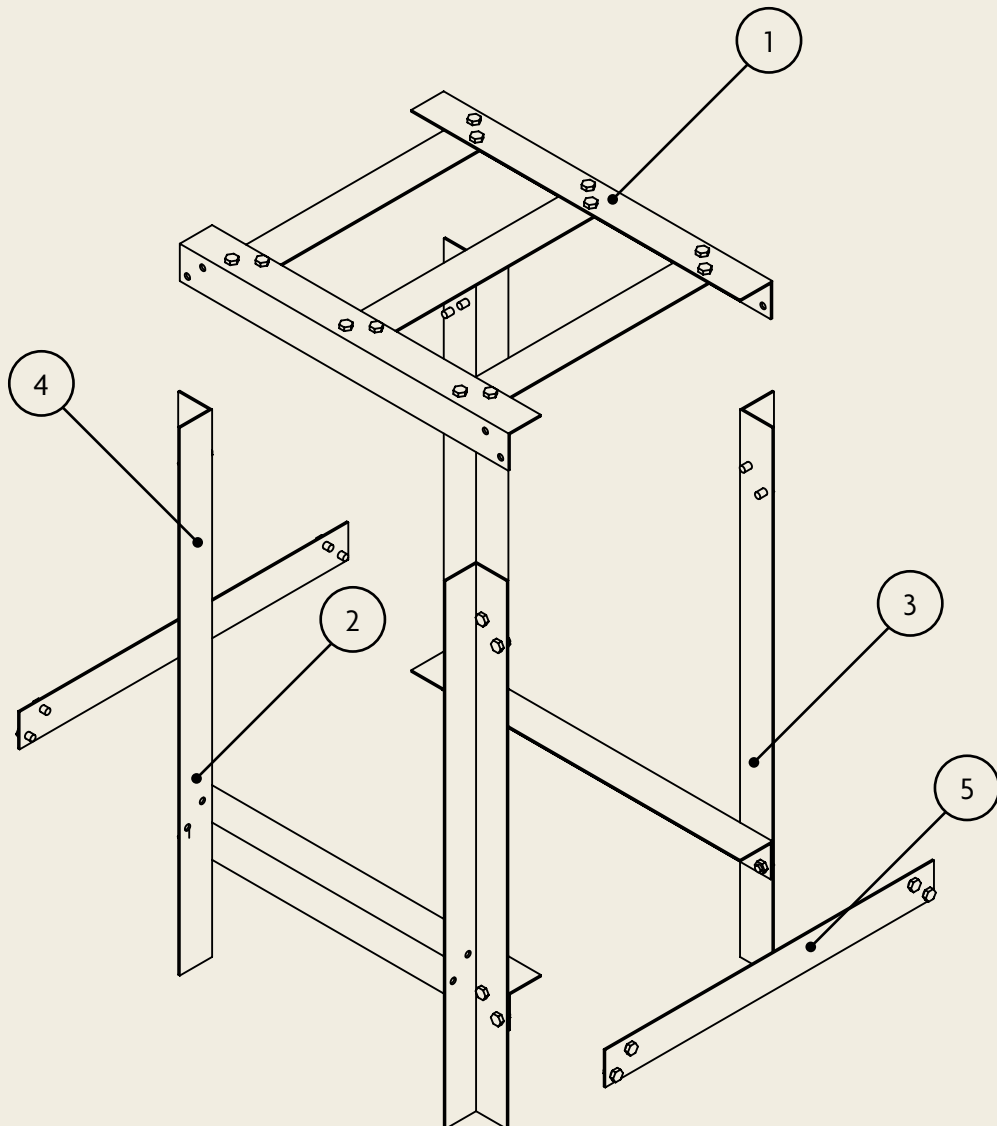
USING A PENCIL AND THE BELOW DRAWINGS MARK OUT EACH DRILL LOCATION ON THE **TWO** HIGHLIGHTED RAILS IN BLUE AND DRILL OUT EACH HOLE.

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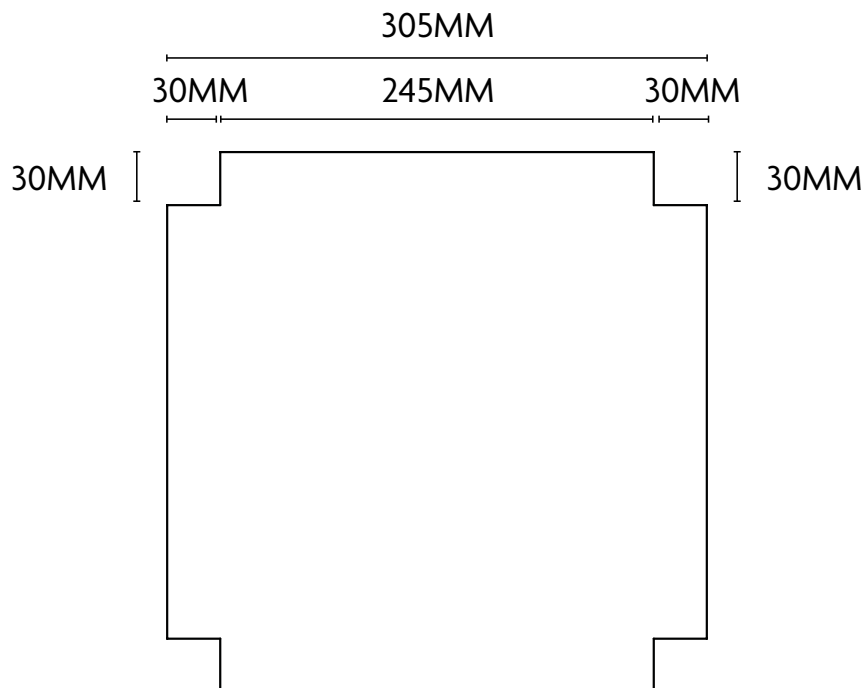
## STEP 7

(G) WITH THE PRE-DRILLED LENGTHS OF ALUMINIUM AND THE M5 NUTS AND BOLTS BEGIN TO ASSEMBLE THE FRAME IN THE BELOW ORDER



## STEP8

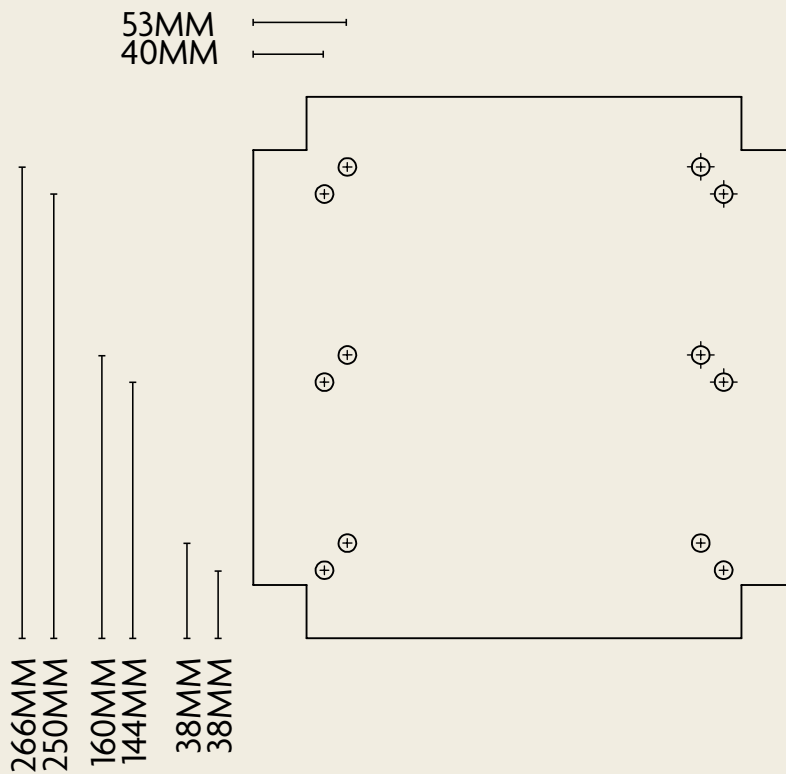
(H) FOR EACH OF THE 6MM CORK TILES TAKE A STANLEY KNIFE AND A RULLER AND CUT 30MM X 30MM SQUARES OUT FROM EACH CORNER. THIS WILL SIT HARD UP AGAINST THE ALUMINIUM LEGS SO MAKE SURE THE CUTS ARE PRECISE.



## STEP 9

(I) FOR THE BOTTOM [CORK TILE](#) WE WILL NEED TO USE OUR 10MM HOLE PUNCH TO REMOVE HOLES SO THAT THE NUTS FROM THE ASSEMBLY OF THE FRAMEWORK CAN SIT WITHIN THE CORK AND ALLOW THE CORK TO SIT FLAT.

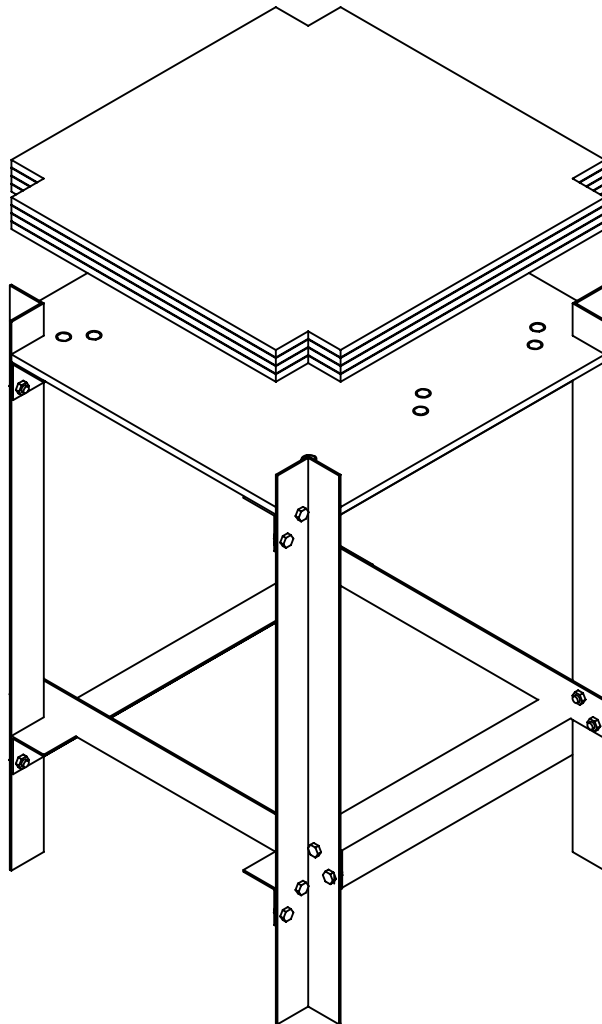
FOLLOWING THE BELOW DIMENSIONS MARK WITH A PEN THE LOCATIONS OF EACH HOLE AND REMOVE THE MATERIAL WITH YOUR HOLE PUNCH.



## STEP 10

(J) LASTLY PLACE THE LAST CORK TILE AND ALIGN EACH PUNCHED HOLE TO THE NUTS OF THE FRAME AND PROCEED TO POSITION THE REMAINING FIVE CORK TILES INTO POSITION.

ENJOY!



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