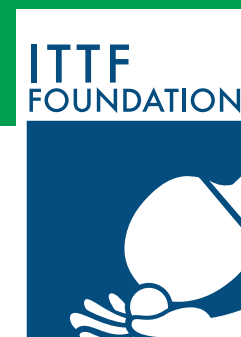


TABLE WITH **RECYCLED MATERIALS** INSTRUCTIONS





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table top support

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Building the
playing surface

Overview



This model suggests to use recycled materials, incl. pallets, and materials are ideal for outdoor use, incl. mortar.

It has been tested in South Africa and Ghana.

ADVANTAGES

- Durable design / outdoor use
- Ecological: recycled wood pallets can be used

DISADVANTAGES

- Not suitable for wheelchair users
- Not transportable
- Material hard to find in rural areas
- Difficult to build

PROFESSIONAL CARPENTER
1-2 days: construction
5+ days: drying.
(approximately 6 hours per day)

2 NON-PROFESSIONAL
CARPENTERS
3 days

175 € in South Africa
168 € in Ghana







Labour included

What you need



For a more visual instruction, check out our video here.

MATERIAL

Description	Picture	Size	Quantity
Pallets		105x4x3cm	10
Mortar		35kg each + water	10 bags
Screws		60mm	200
Nails *		45mm	200
Welded mesh		120x240cm	2
Tarpaulin/oiled cloth/many big old bags		≈ 4.5m ²	1
Paint/coloured powder (optional)			

* Where possible, we recommend using nails for the frame assembly instead of screws to ensure more structural stability.

TOOLS

Additional material you might need:
Strong glue and sandpaper



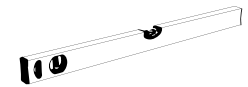
Hammer



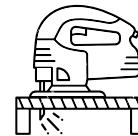
Tape measure



Drill/
Screwdriver



Bubble level



Jigsaw

or



Saw



Protractor



Brush and paint



Bucket



Crowbar



Leveler

SAFETY MEASURES

- Opt for portable tools and machines with reduced weight
- Wear suitable handling gloves
- Organise the flow of goods in the workshop so that unnecessary or avoidable handling is avoided
- Where necessary, wear ear protection
- Have a safety kit at hand at the cutting or assembly workshops
- Keep supply materials as close as possible to the work area
- On site, give preference to handling by several people when no mechanised assistance is possible





1


DISASSEMBLING THE PALLETS



MATERIAL AND TOOLS TO PREPARE FOR STEP 1 TO 6



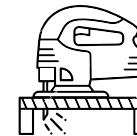
MATERIAL

Description	Picture	Size	Quantity
Pallets		105x4x3cm	5

TOOLS



Hammer



Jigsaw

or



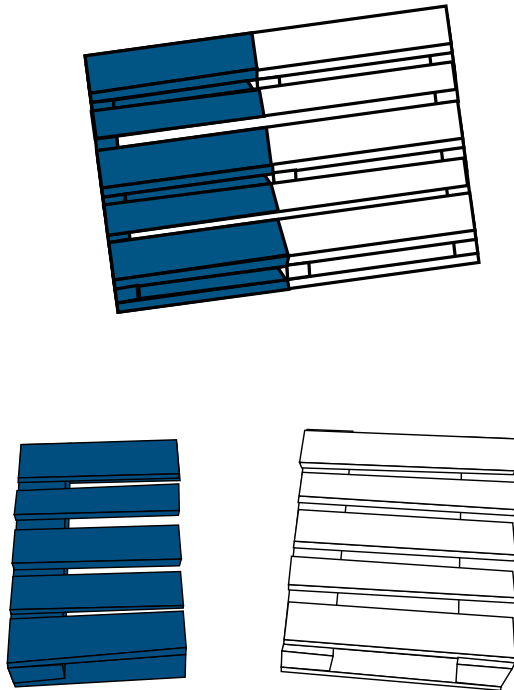
Saw



Crowbar

Prepare all the following pieces using the pallets. Don't throw out the pieces you cut off, they will be used later.

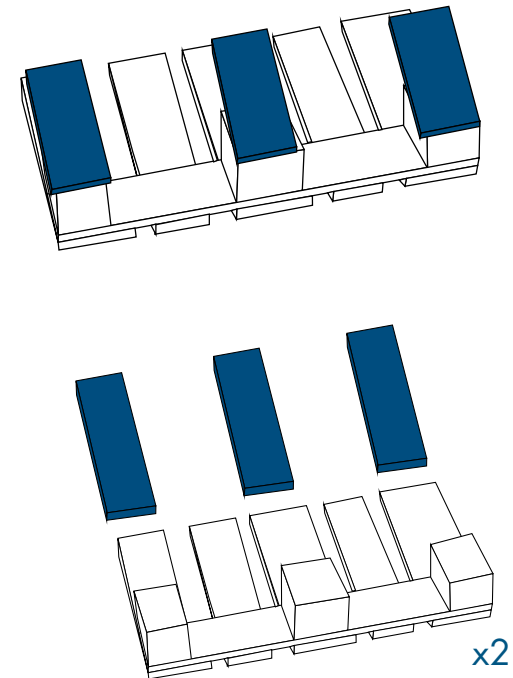
Step 1



Take 4 pallets and cut each of them in half as followed: use a saw to cut off the coloured part of the drawing. One half should still have two cork blocks, the other half should have four cork blocks.

You should now have 4 new pallet-pieces corresponding to the left/blue part of the drawing (p1), and 4 new pallet-pieces corresponding to the right/white part (p2).

Step 2

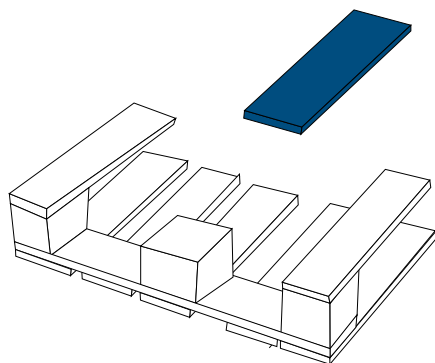
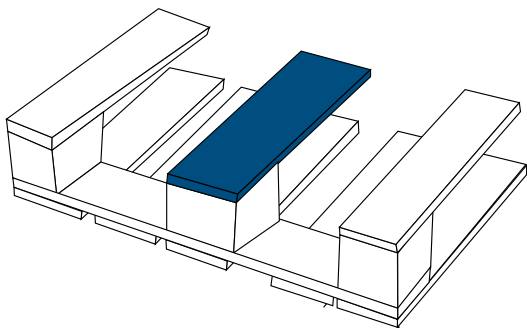


Take 2 of p1 from step 1, turn them on their back side and remove the blue-coloured parts with a crowbar.

Notes:

1. Put all removed blue-coloured parts from steps 2 to step 6 in one safe spot (bulk) to be used at a later stage.
2. Use additionally to the crowbar a hammer to increase the force separating the respective parts.
3. Make sure the cork blocks are preserved, or glue them back together.

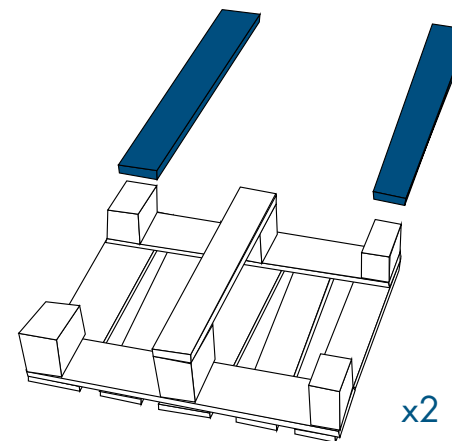
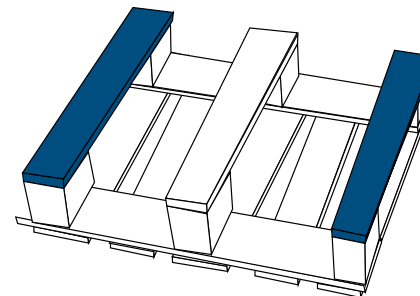
Step 3



x2

Take the other 2 of p1 from step 1, turn them on their back side and remove only the blue-coloured middle part with a crowbar.

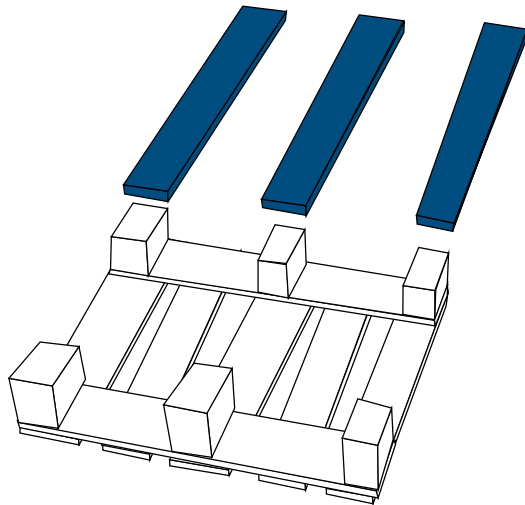
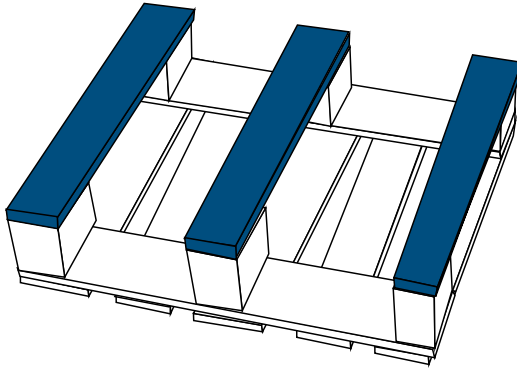
Step 4



x2

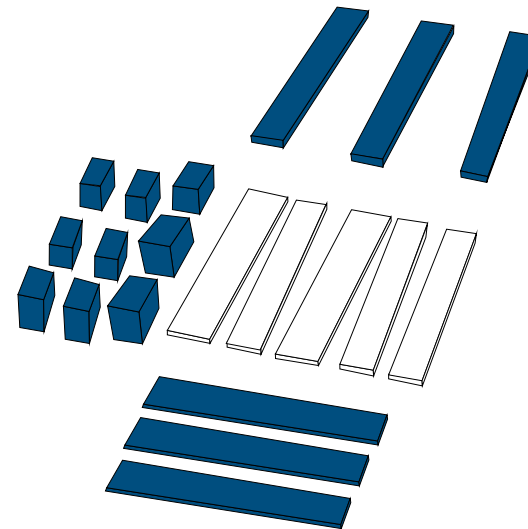
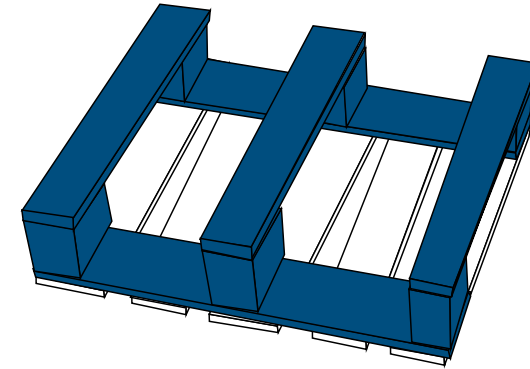
Take 2 of p2 from step 1, turn them on their back side and remove the blue-coloured parts with a crowbar – but keeping the one in the middle.

Step 5



Take the other 2 of p2 from step 1, turn them on their back side and this time removing all the coloured parts with a crowbar.

Step 6



You should have one pallet left that has not yet been used in the first steps. Take it apart completely and keep all blue and white parts for later.



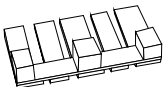
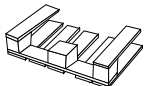
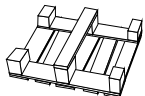
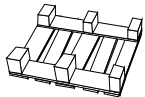
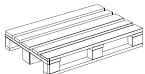



2

ASSEMBLING THE STRUCTURE



MATERIAL AND TOOLS TO PREPARE FOR STEP 7 TO 12

MATERIAL

Description	Picture	Size	Quantity	Reference
Dismantled pallets			2	b1
Dismantled pallets			2	b2
Dismantled pallets			2	b3
Dismantled pallets			2	b4
Pallets			5	
Screws		60mm	200	
Nails		45mm	200	
Bulk			29	

TOOLS



Saw

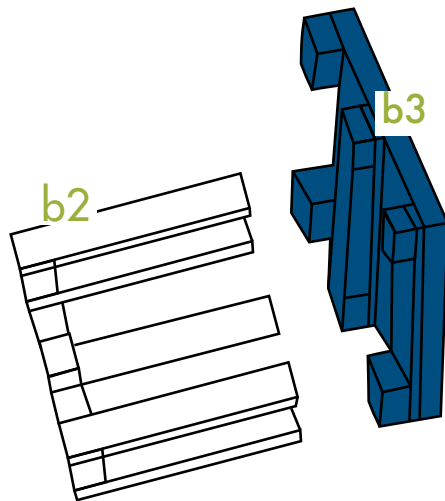


Hammer



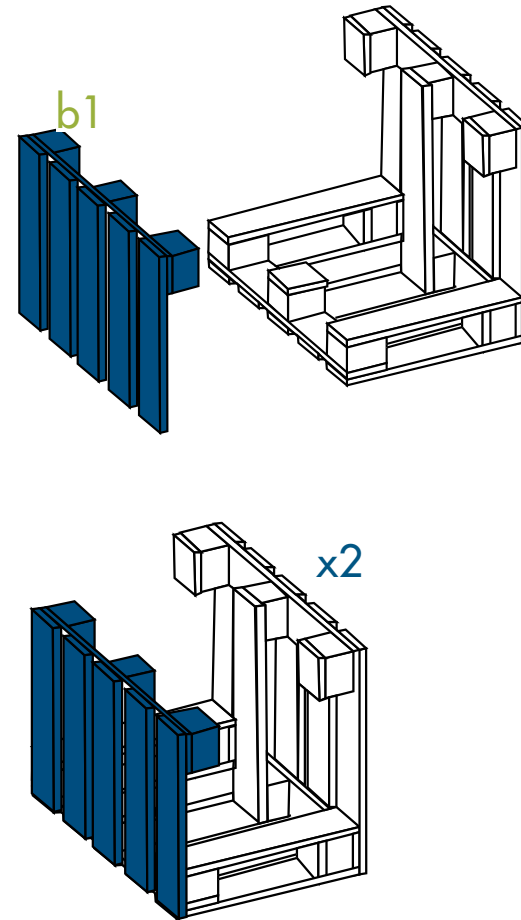
Drill/
Screwdriver

Step 7



Screw **b2** and **b3** together using a screwdriver.
Repeat this step twice to make another one.

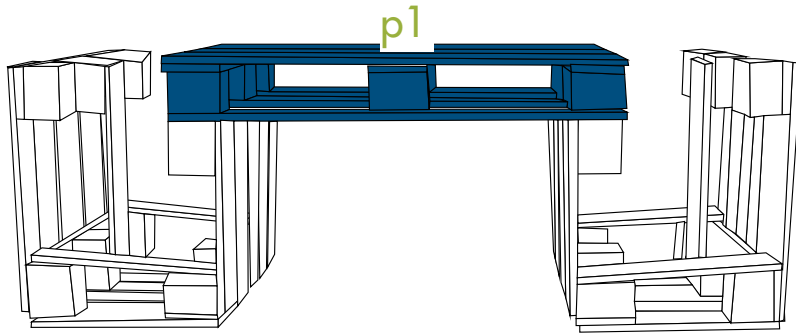
Step 8



Take **b1** and and screw it together with the
piece from step 7 as shown above. Repeat
this step twice to make another piece.

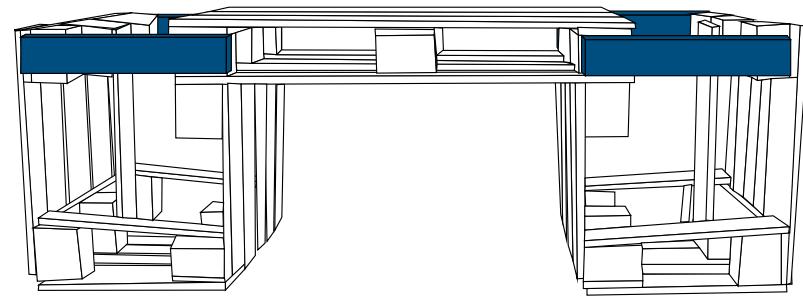


Step 9



Take one pallet, place it on top of the two pieces from step 8 as shown above, and screw them together. Repeat this step twice to make another piece.

Step 10

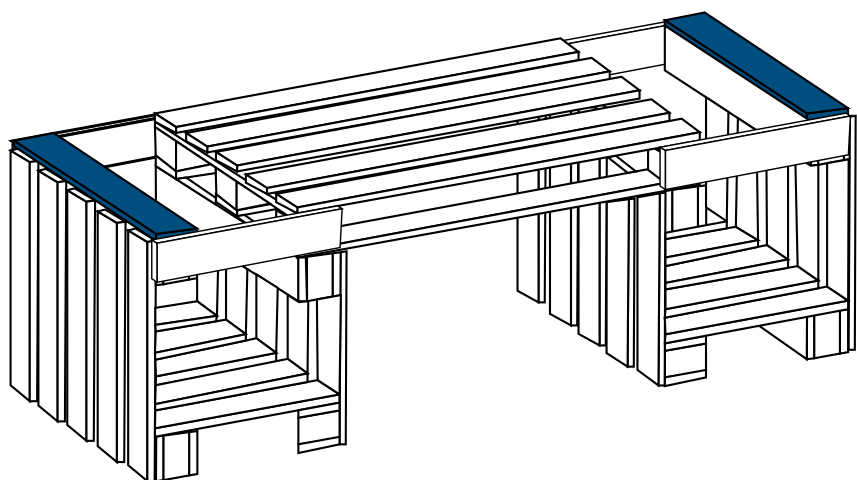


Take 4 pieces from the bulk of ca. 67 x 10 cm, place them as shown above, and screw them together.

Note: The measurements of the leftover from the bulk might vary depending on the specific pallets, or where they were retrieved.

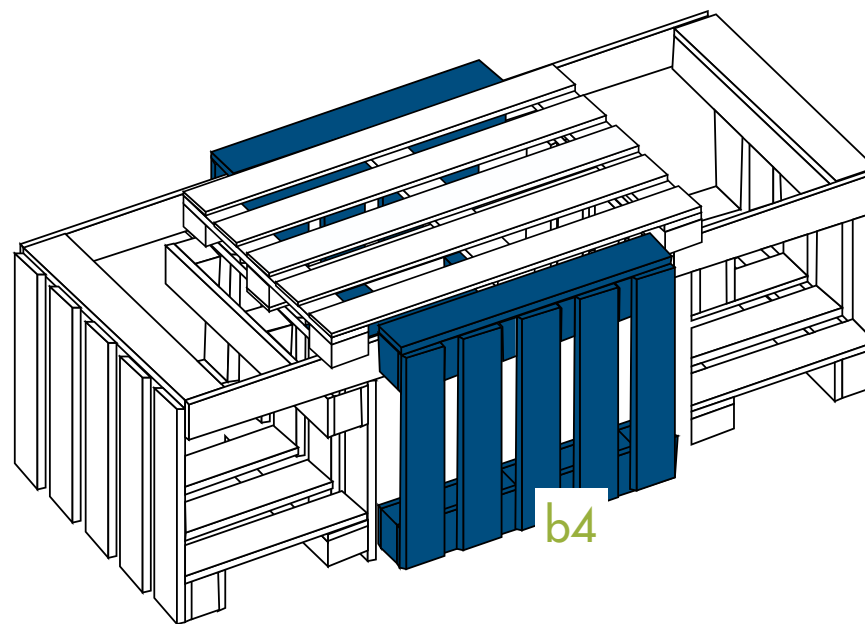


Step 11



Take 2 pieces from the bulk of ca. 67 x 14.5 cm, place them as shown above, and screw them together.

Step 12



Take both **b4**, place them as shown above and screw them together.

Note: You can also dismantle b4 and only use the wooden strips to close the space as shown in the picture below.



3

BUILDING THE TABLE TOP SUPPORT





1



2







3

ATTENTION: Before you build the table top support, check the ground and evenness where the table's final place will be and where you should put it before building the playing surface. One possibility is to build a levelled basement (g1) is shown in the three pictures. In case you like the idea, make sure the basement will be dry before you put the table on it.

MATERIAL AND TOOLS TO PREPARE FOR STEP 13 TO 18

MATERIAL

Description	Picture	Size	Quantity
Pallets		105x4x3cm	4
Screws		60mm	200
Nails		45mm	200
Bulk			23

TOOLS



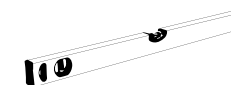
Hammer



Tape
measure



Drill/
Screwdriver



Bubble level



Jigsaw

or



Saw

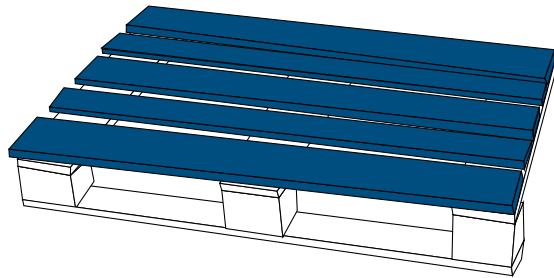


Protractor



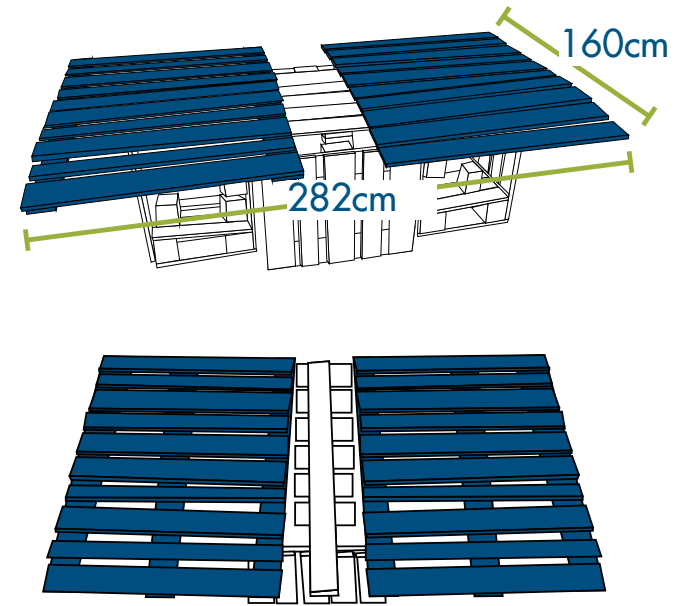
Crowbar

Step 13



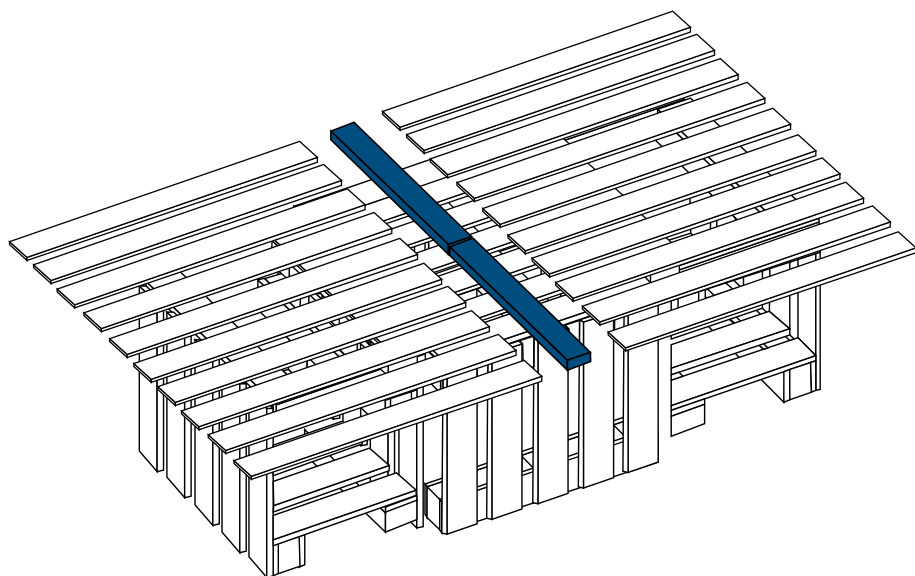
Take 4 pallets and remove the blue parts with a crowbar. Repeat this step 3 more times. Put the lower/white parts aside, they will be used at a later stage.

Step 14



Take the blue parts from step 13 on top of the table created in step 12 – two parts per table-side – and screw them together for the surface of 282 x 160 cm.

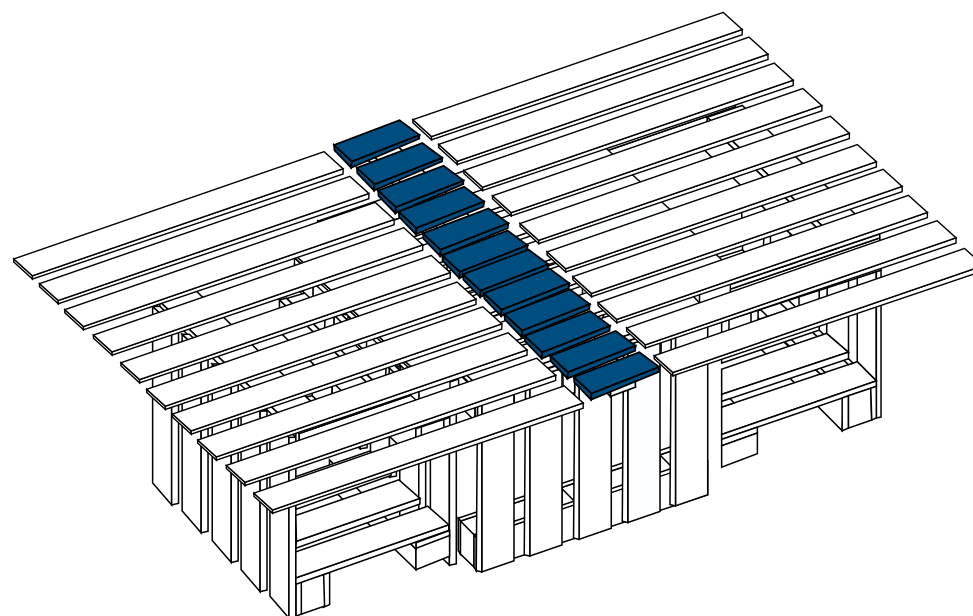
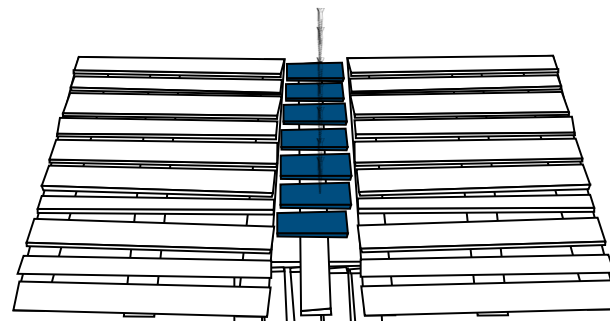
Step 15



Take 2 bulks of ca. 61 x 14.5 cm each, put them on the table centre as shown above, and screw them together.

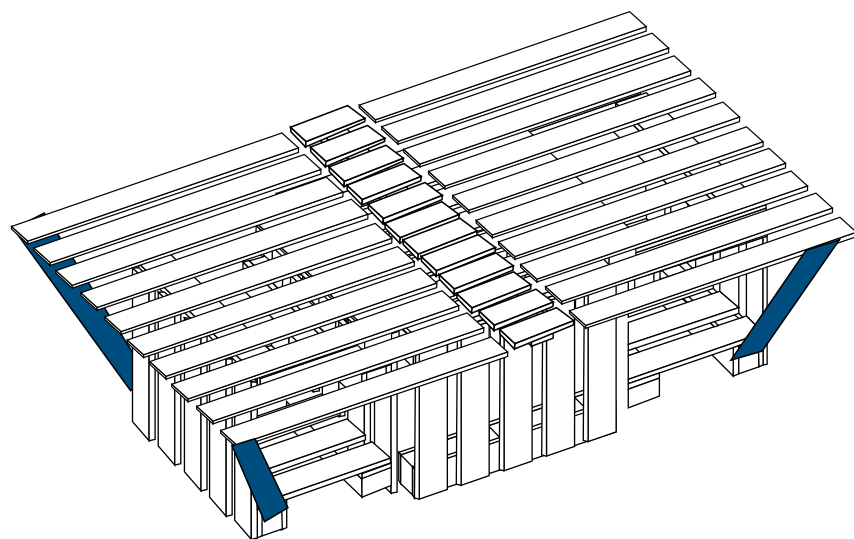
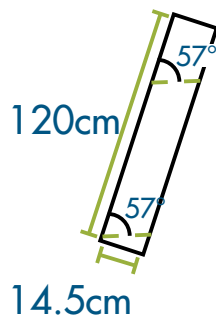
Note: Screw the bulks only in the middle of the table. If you screw them together on the outer side, the playing surface might be uneven at a later stage.

Step 16



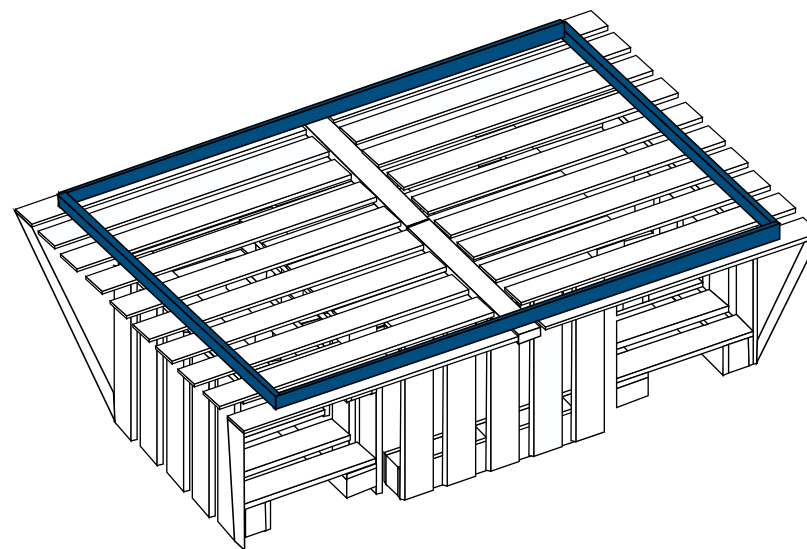
Take 12 bulks and cut between 35 and 37 cm depending on the space available. Then, place them on top of the bulk placed in step 15. Fix them with screws and a screwdriver.

Step 17



Cut 4 pieces from the bulk of 120 x 14.5 cm each. Then, measure 57° and cut as indicated above. Use the bubble level to place it correctly between the structure of the table and the table top support. Fix them with screws.

Step 18



Add bulks to make a rectangle of 274 x 152 cm. Make sure to measure the inside of the rectangle and then fix them with nails and a hammer.

Note: This is the latest point where you should place the table on the basement (g1). Double-check with the bubble level that the table is on even ground.








4

BUILDING THE PLAYING SURFACE



MATERIAL AND TOOLS TO PREPARE FOR STEP 19 TO 22

MATERIAL

Description	Picture	Size	Quantity
Mortar		35kg each + water	10 bags
Screws		60mm	200
Nails		45mm	200
Welded mesh		120x240cm	2
Tarpaulin/oiled cloth/many big old bags		≈ 4.5m ²	1
Paint/coloured powder (optional)			

TOOLS



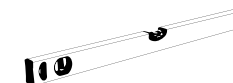
Hammer



Tape
measure



Drill/
Screwdriver



Bubble level



Jigsaw

or



Saw



Brush and
paint



Bucket



Leveler

Step 19

Place the tarpaulin, the oiled cloth or many big old bags inside the frame created in step 18, put the welded mesh on top of it and fix it with nails or use small stones so either fabric doesn't shift too much. Make sure the welded mesh is raised up to 3 cm from the formwork; it can also be raised with nails or stones.

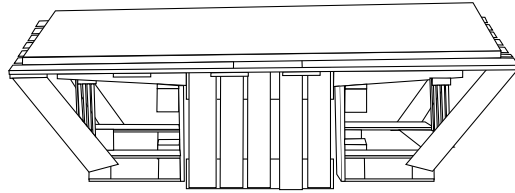


Step 20



Prepare the mortar following the instructions on the bag. There should be a minimum of 4 cm for the playing surface. Smoothen it and carefully check if it is even. Shape the cement into the structure by tapping with a hammer from underneath of the table to avoid any air bubbles.

Step 21



Step 22



Let the surface dry for 3-5 days. Remove the frame by removing the nails and bulks prepared in steps 17 and 18.

Notes:

- 1. In case you want to colour the playing surface with coloured powder, make sure to do it before the drying process. If you want to use paint, do it after the drying process.*
- 2. In case you used tarpaulin, cut off the edges.*

If possible, sand the surface and double check the level.

You can now install the net.



**YOUR TABLE IS READY,
ENJOY!**



ITTF
FOUNDATION



For more information, please get in touch with us via: info@foundation.ittf.com.