CODEAVOUR 8.0
INTERNATIONAL

Track 3 - Robo Soccer League

Arena Setup Guide



Score with Skills, Win with Code

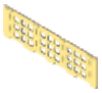
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VERSION 1.0.1
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Component List

Sr. no.	Item Code	Part name / Sub-assembly Name	Reference Image	Qty/Set
1	T3-RSA-A1	Puzzle Base Corner Sub-assembly 1		2
2	T3-RSA-A2	Puzzle Base Corner Sub-assembly 2		2
3	T3-RSA-A3	Puzzle Base Middle Sub-assembly 1		2
4	T3-RSA-A4	Puzzle Base Middle Sub-assembly 2		2
5	T3-RSA-A5	Puzzle Base Middle Sub-assembly 3		2
6	T3-RSA-14	Puzzle Base Middle		2
7	T3-RSA-15	Wall 1		2
8	T3-RSA-16	Wall 2A		2
9	T3-RSA-17	Wall 2B		2
10	T3-RSA-22	Wall 6		2
11	T3-RSA-25	Goal Arch		4
12	T3-RSA-27	Goal Arch Connector		16

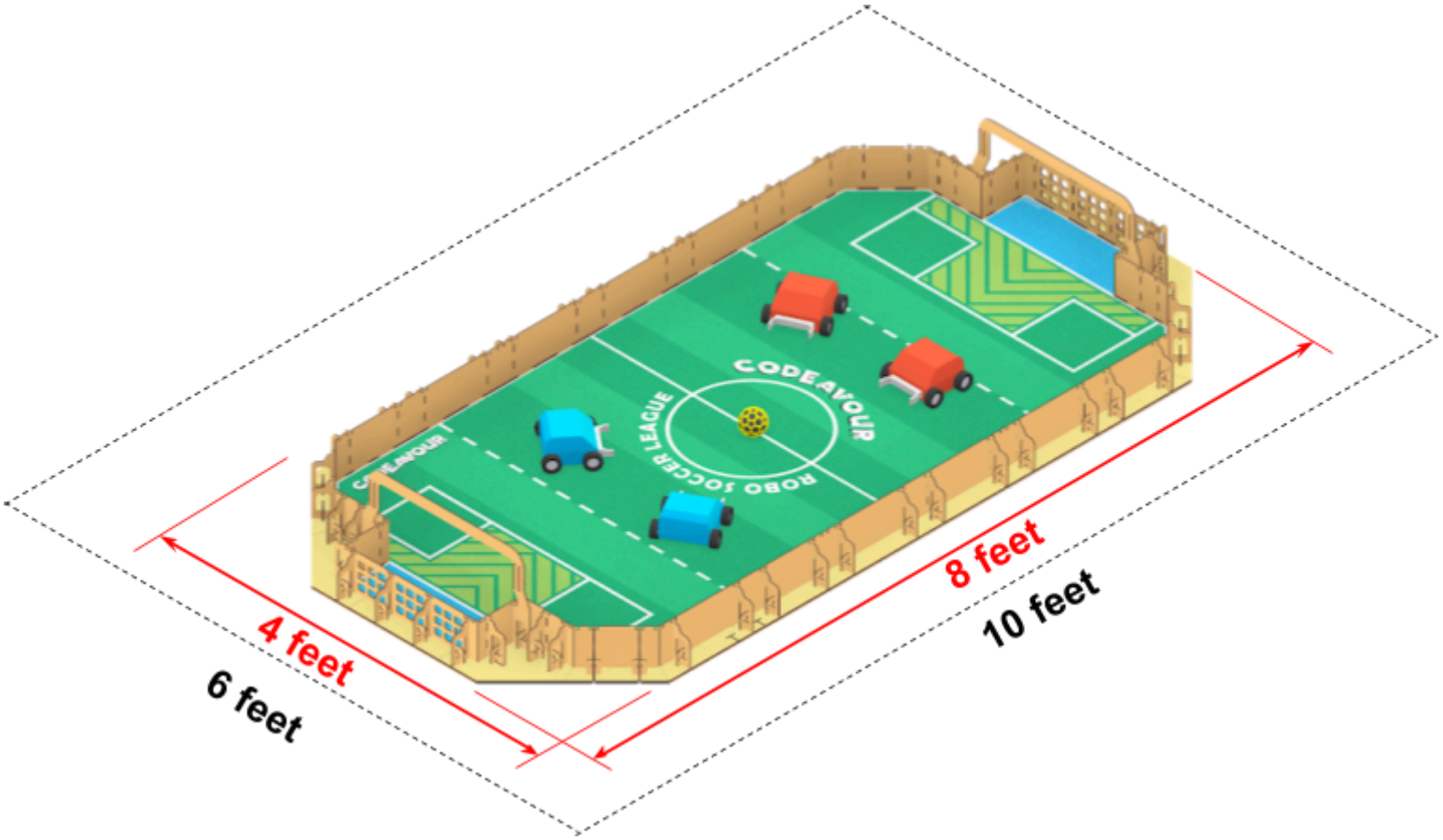
Sr. no.	Item Code	Part name / Sub-assembly Name	Reference Image	Qty/Set
13	T3-RSA-18	Wall 3		4
14	T3-RSA-19	Wall 4A		2
15	T3-RSA-20	Wall 4B		2
16	T3-RSA-21	Wall 5		4
17	T3-RSA-23	Wall Support		70
18	T3-RSA-24	Wall Connector		78
19	T3-RSA-26	Goal Arch Support		8
20	-	Sand Paper		1
21	-	Double-sided Tape		1
22	-	O rings (OD: 12mm, ID: 8mm)		85
23	-	Screws (9mm)		10
24	-	Screw Driver		1
25	-	Mallet		1
26	-	Printed Arena		1

1. Assembly of the Arena Puzzle Base

Step 1.1: Make space for Arena

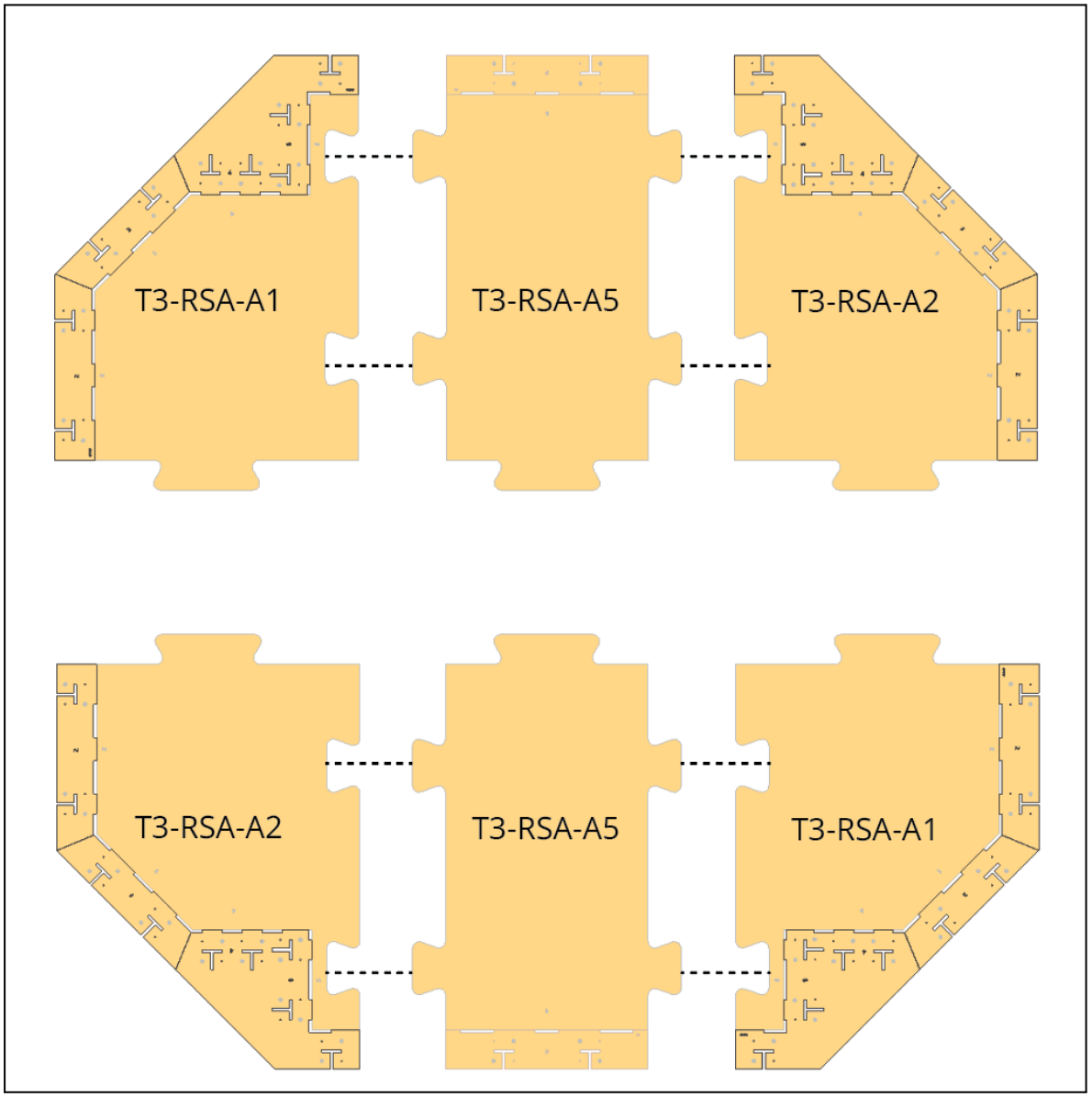
To begin, you will need an even space of at least 6 x 10 feet for the assembly of the puzzle base. This space can be a tabletop or on the ground.

The Robo Soccer Arena measures ***4 x 8 feet***, so the space of ***6 x 10 feet*** provides space around the Arena for players and referees to stand.



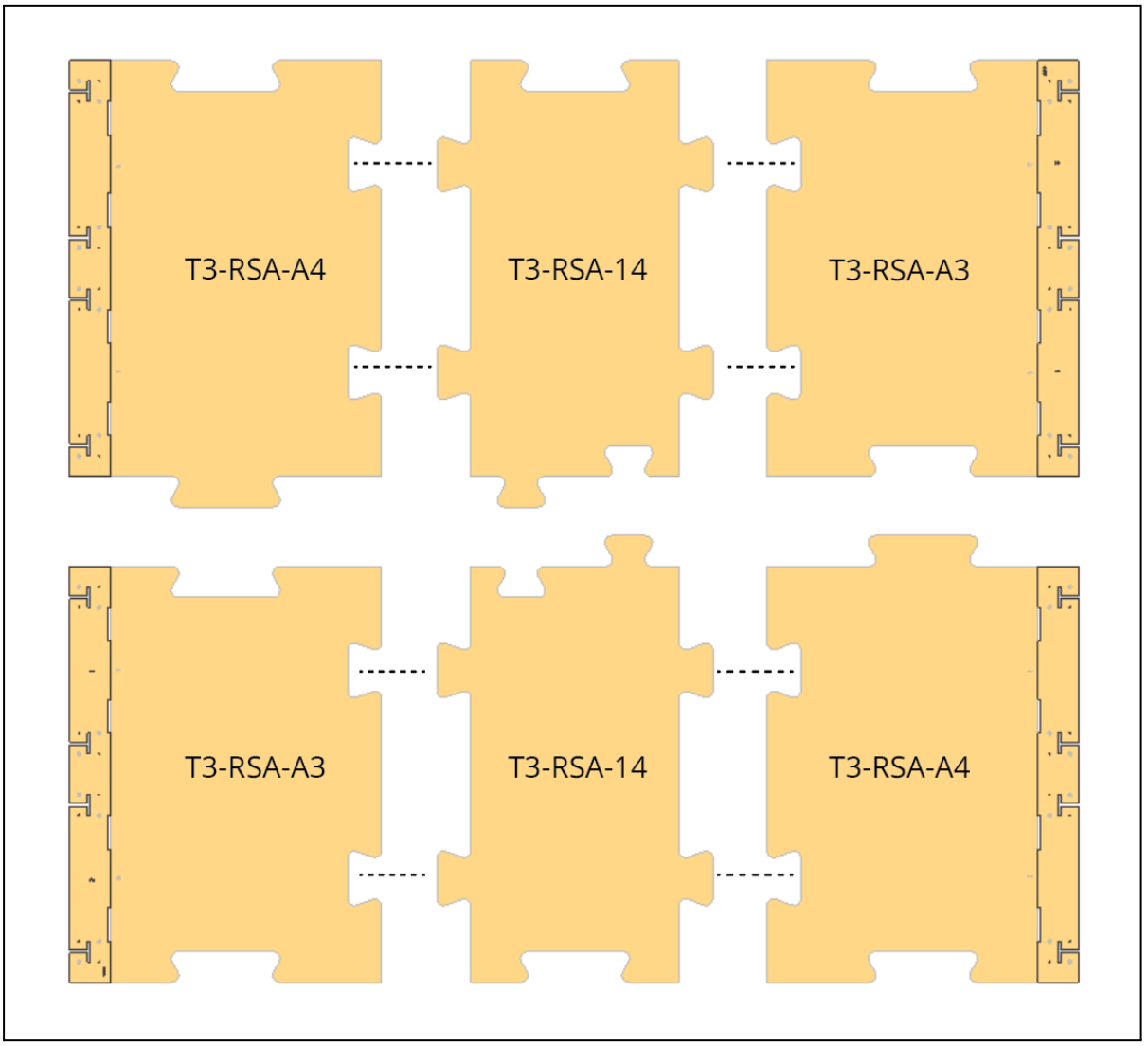
Step 1.2: Assemble the base -1

Assemble the parts ***T3-RSA-A1 (x1)***, ***T3-RSA-A5 (x1)***, and ***T3-RSA-A2 (x1)*** as shown below, and repeat the process to create another set for the opposite side.



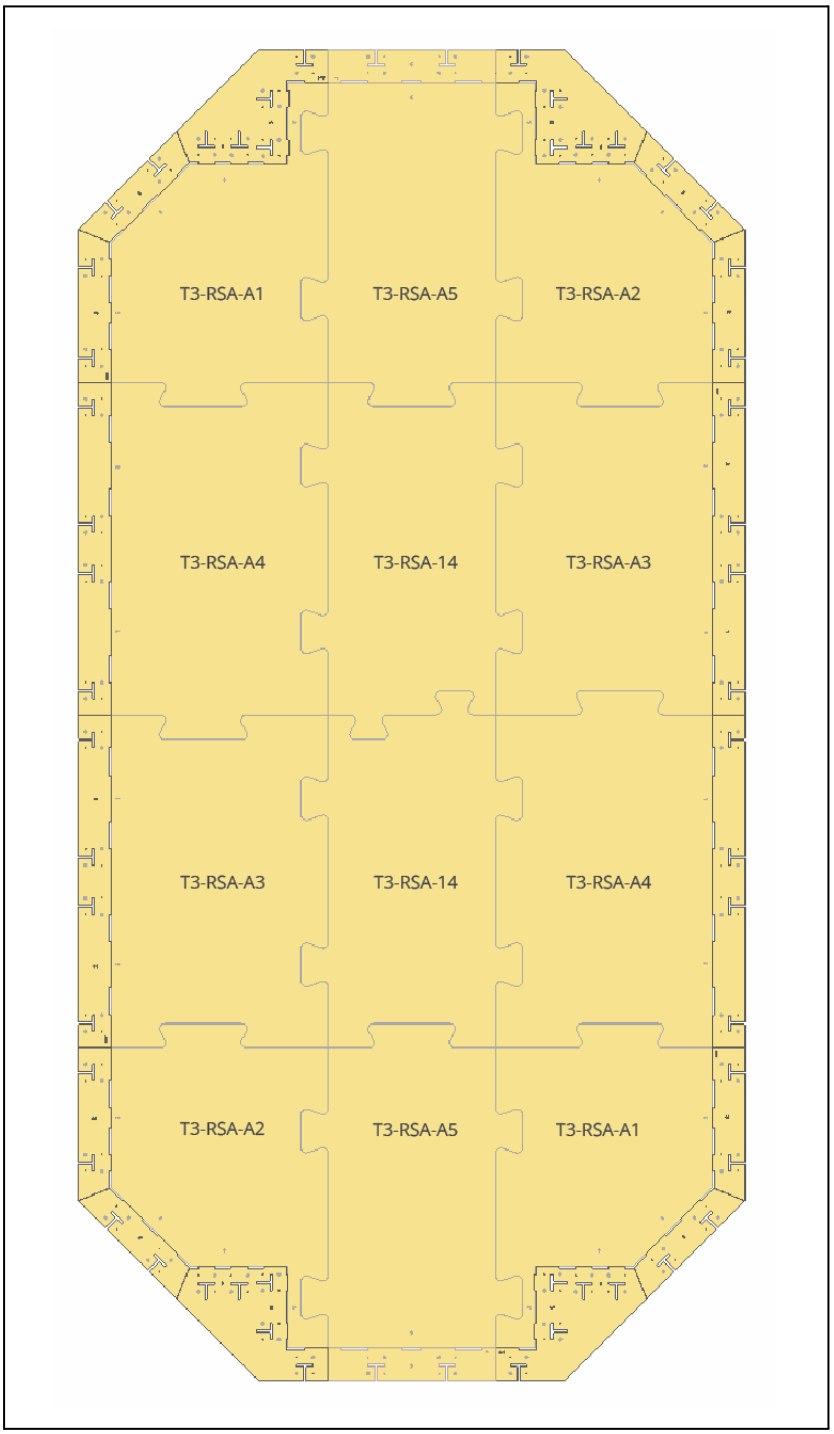
Step 1.3: Assemble the base -2

Assemble the parts **T3-RSA-A4 (x1)**, **T3-RSA-14 (x1)**, and **T3-RSA-A3 (x1)** as shown below, and repeat the process to create one more set for the opposite side.



Step 1.4: Complete the Base

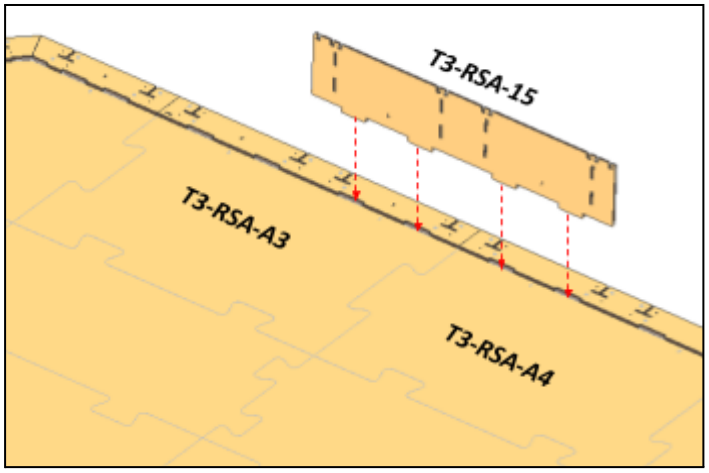
Assemble all the ***12 puzzle bases*** as shown below, and the base of the Arena is ready.



2. Assembly of Arena MDF Walls

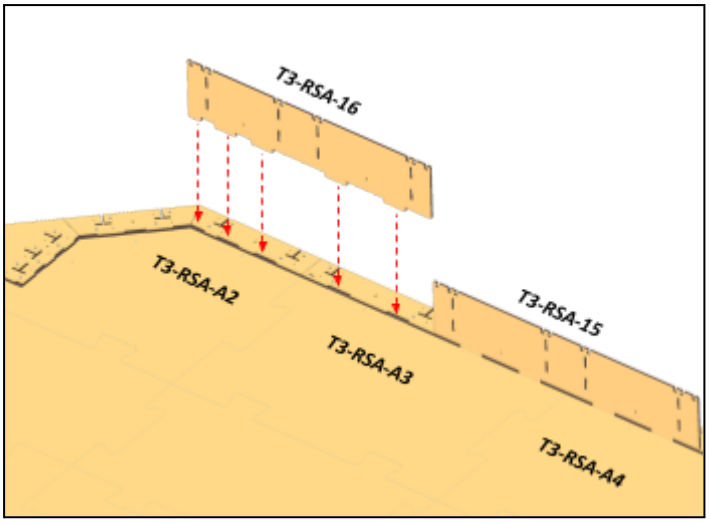
Step 2.1: Insert the walls - 1

Starting with the ***Wall 1 T3-RSA-15 (x1)***, and place it vertically in the middle of the sub-assemblies ***T3-RSA-A3*** and ***T3-RSA-A4.***



Step 2.2: Align the correct walls adjacent to each other.

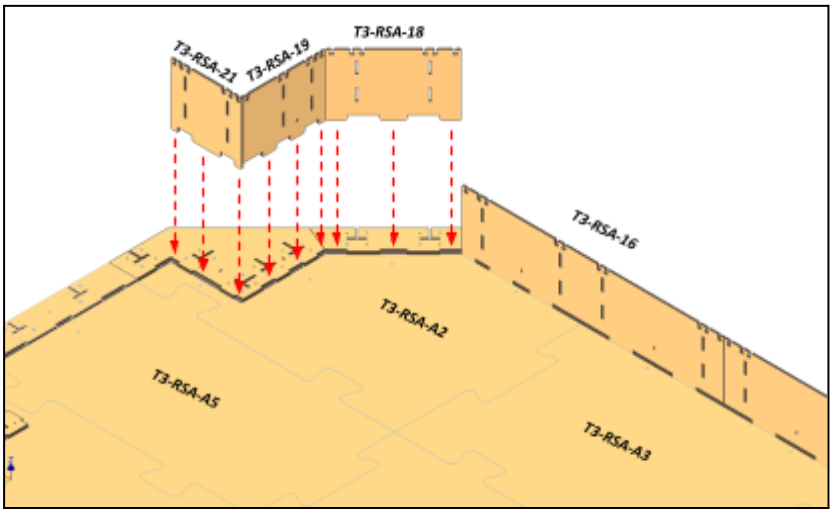
Take the ***Wall 2A T3-RSA-16 (x1)***, and place it vertically in the middle of the sub-assemblies ***T3-RSA-A2*** and ***T3-RSA-A3.***



The walls should fit vertically inside the sub-assemblies. If they are tight, ***use the mallet***.

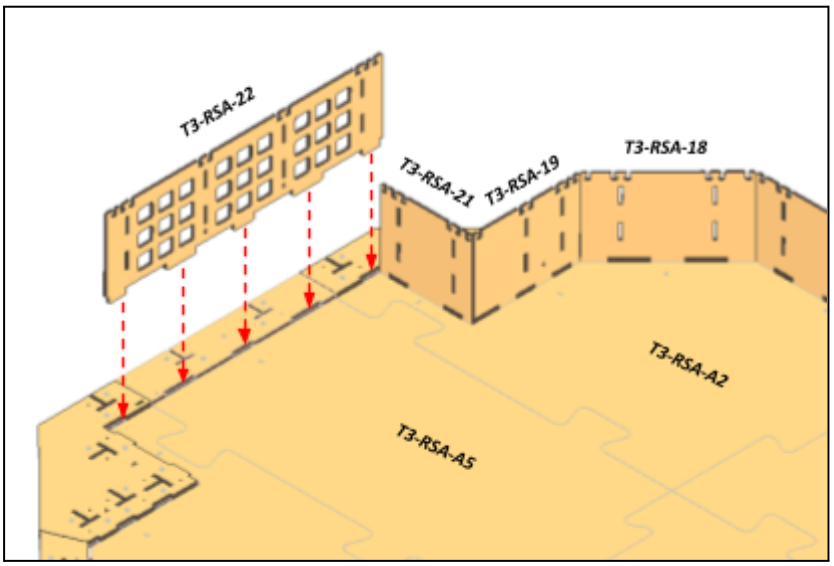
Step 2.3: Insert the walls - 3

Take the parts ***Wall 3 T3-RSA-18 (x1)***, ***Wall 4A T3-RSA-19 (x1)***, and ***Wall 5 T3-RSA-21 (x1),*** one by one, and insert them vertically on sub-assembly ***T3-RSA-A2.***

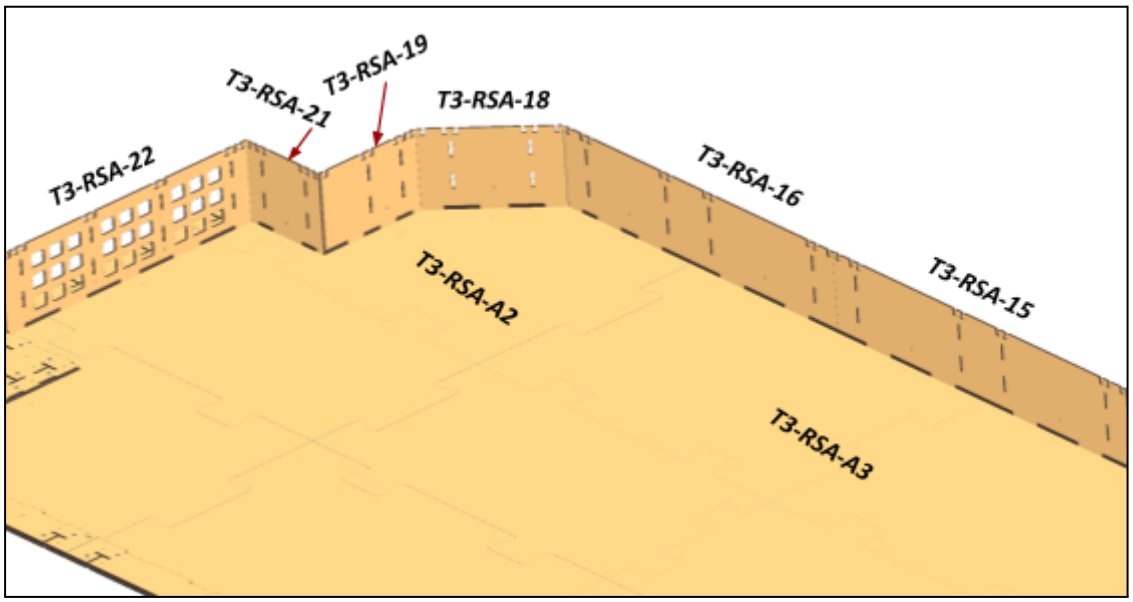


Step 2.4: Insert The Goal Wall

Take the ***Wall 6 T3-RSA-22 (x1)***, and place it vertically in the middle of the sub-assemblies ***T3-RSA-A5***, ***T3-RSA-A5***, and ***T3-RSA-A4.***

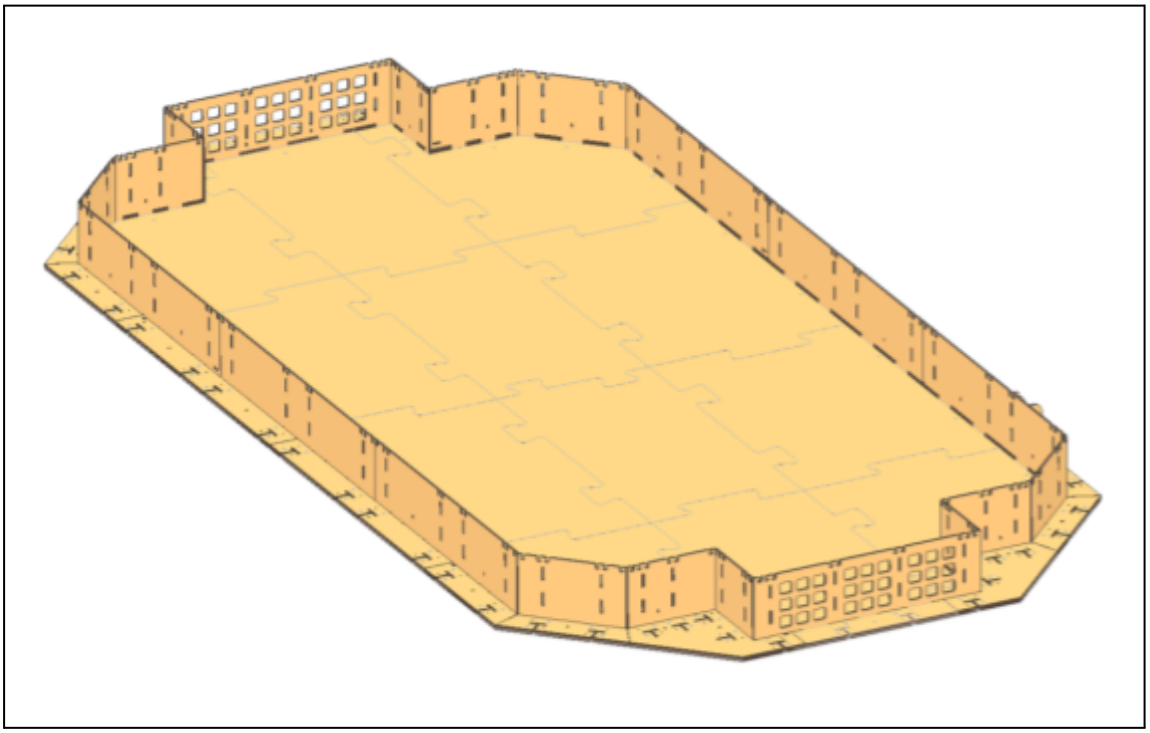


This is how the assembly of 6 walls will look:



Step 2.5: Repeat to Complete Wall Assembly

Repeat the steps (***Step 2.1*** to ***Step 2.4***) of wall assemblies for the remaining sides of the Arena. Below is the image of how the assembly will look after all the walls have been assembled.



3. Assembly of Support Pieces

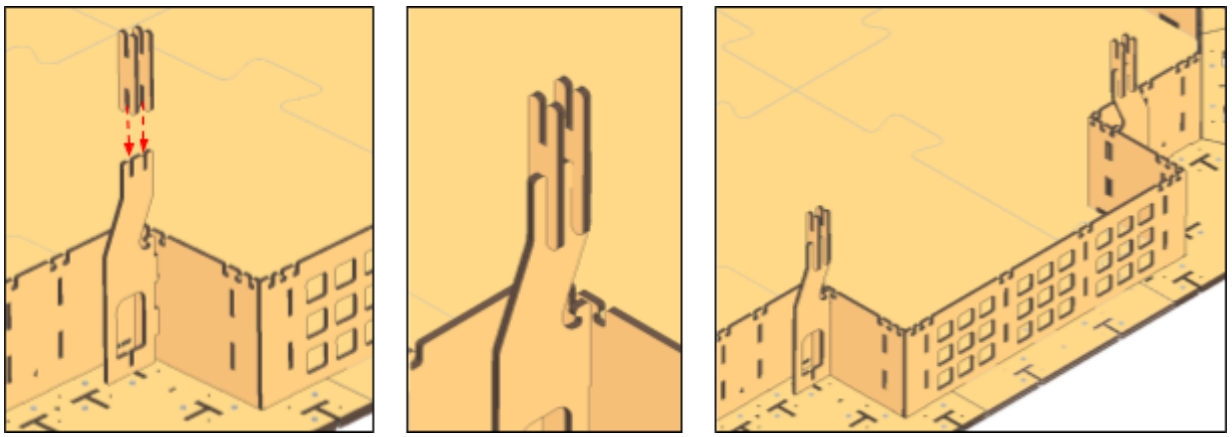
Step 3.1: Insert the Arch Support

Take the ***Arch Support T3-RSA-26 (x1)*** and insert it vertically. Then, slide it horizontally on the outer side of the arena wall, ***Wall 5 T3-RSA-21 (x1)***, as shown in the image below. Repeat this process on the opposite side of the same goal post.



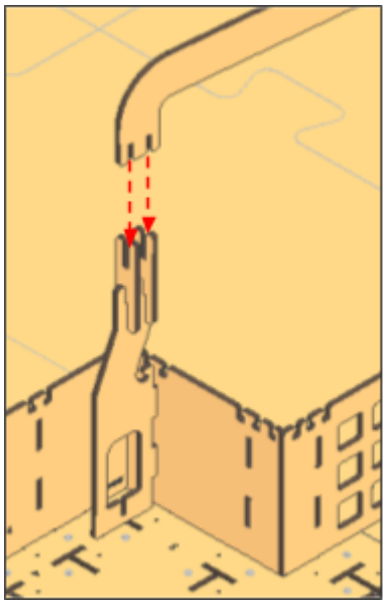
Step 3.2: Insert Goal Arch Connector

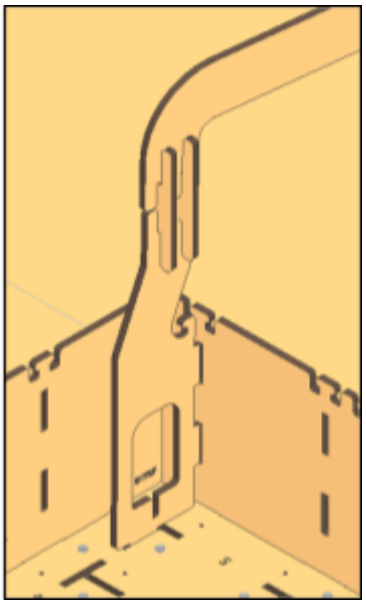
Take two pieces of the Goal Arch Connector T3-RSA-27 (x2) and insert them vertically on top of the ***Arch Support T3-RSA-26 (x1).*** Repeat the same (***Step 3.2***) on the opposite side of the same goal post.

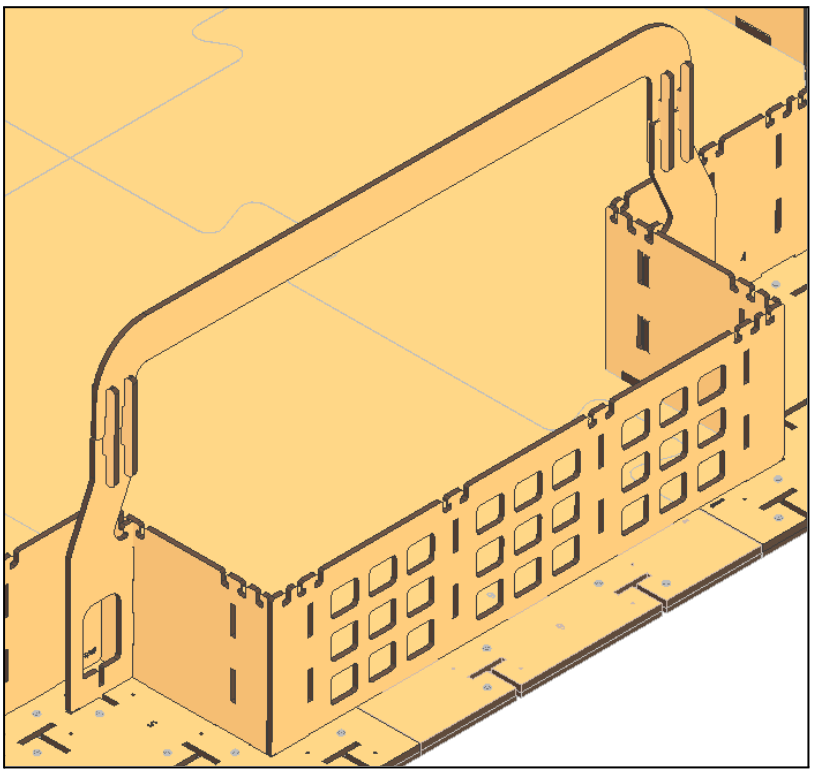


Step 3.3: Assemble the Goal Arch

Take the ***Goal Arch T3-RSA-25 (x1)***, and insert it on the top of the ***Arch Support T3-RSA-26 (x2).***

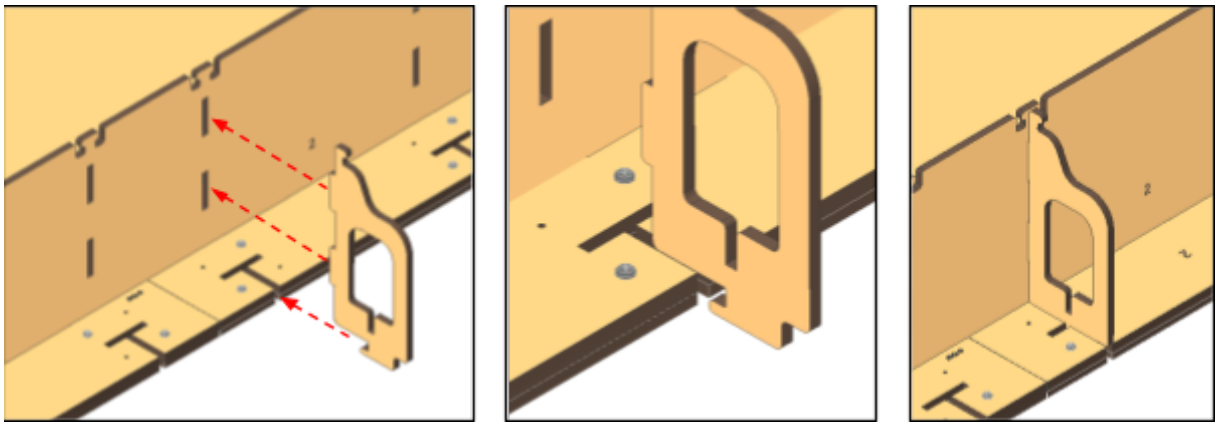






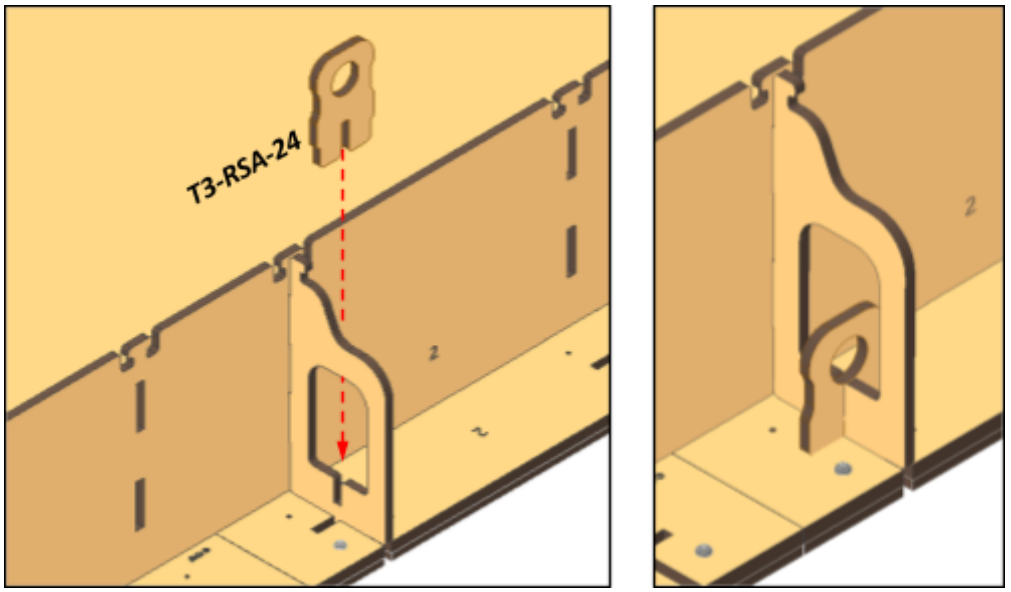
Step 3.4: Insert Wall Supports

Take the ***Wall Support T3-RSA-23 (x1),*** and slide it horizontally on the outer side of the arena walls.



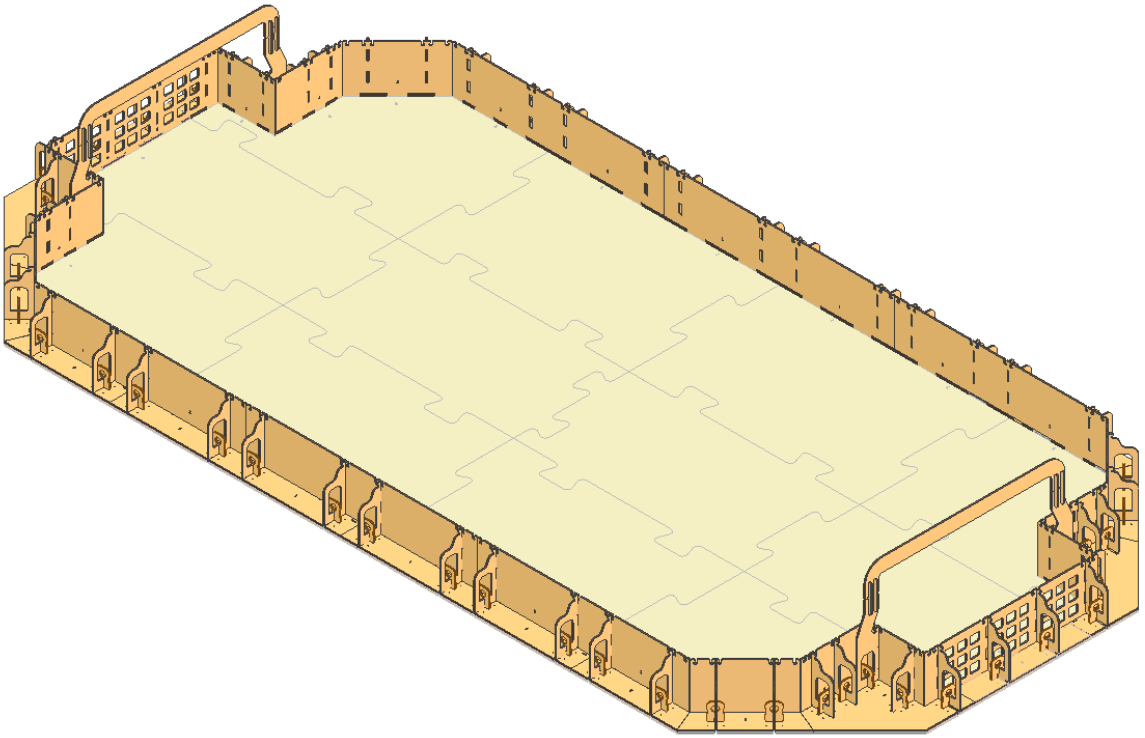
Step 3.5: Lock the wall support

Take the ***Wall Connector T3-RSA-24 (x1)***, and slide it vertically on the outer side of the ***Wall Support T3-RSA-23 (x1)*** of the arena walls.



Step 3.6: Lock all Walls and Arch supports.

Assemble all the remaining supports, and this is how the Arena will look.



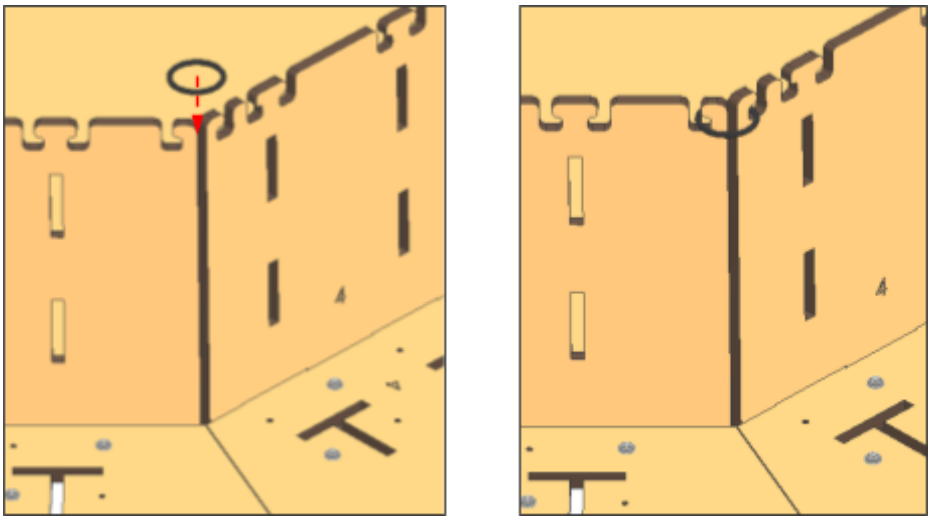
4. Assembly of O-rings

After completing the assembly of the supports, we need to join the support pieces and walls using the ***O-rings***.

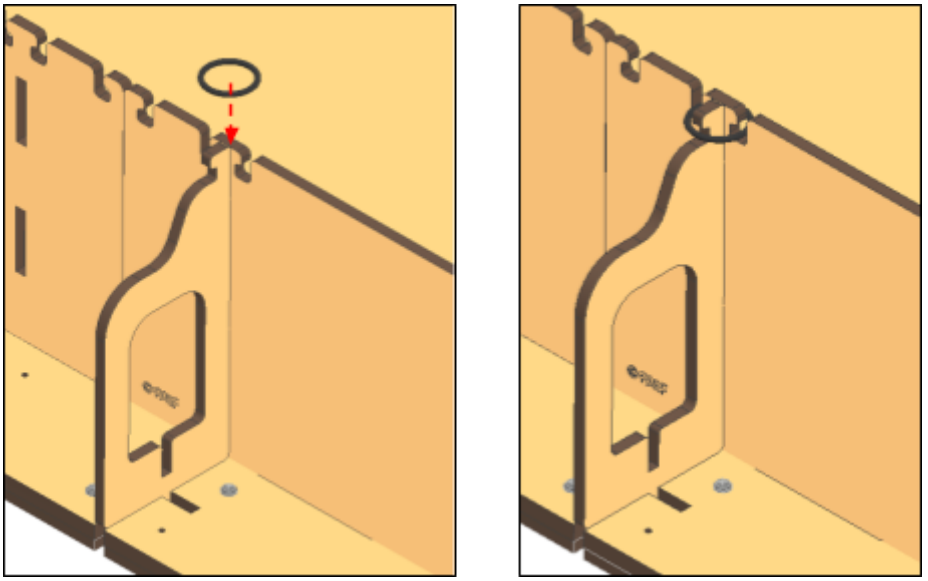
Step 4.1: Secure the Joints

The ***O-rings*** will be inserted into two types of places as given below:

1. ***Connecting 'Wall' to 'Wall':***



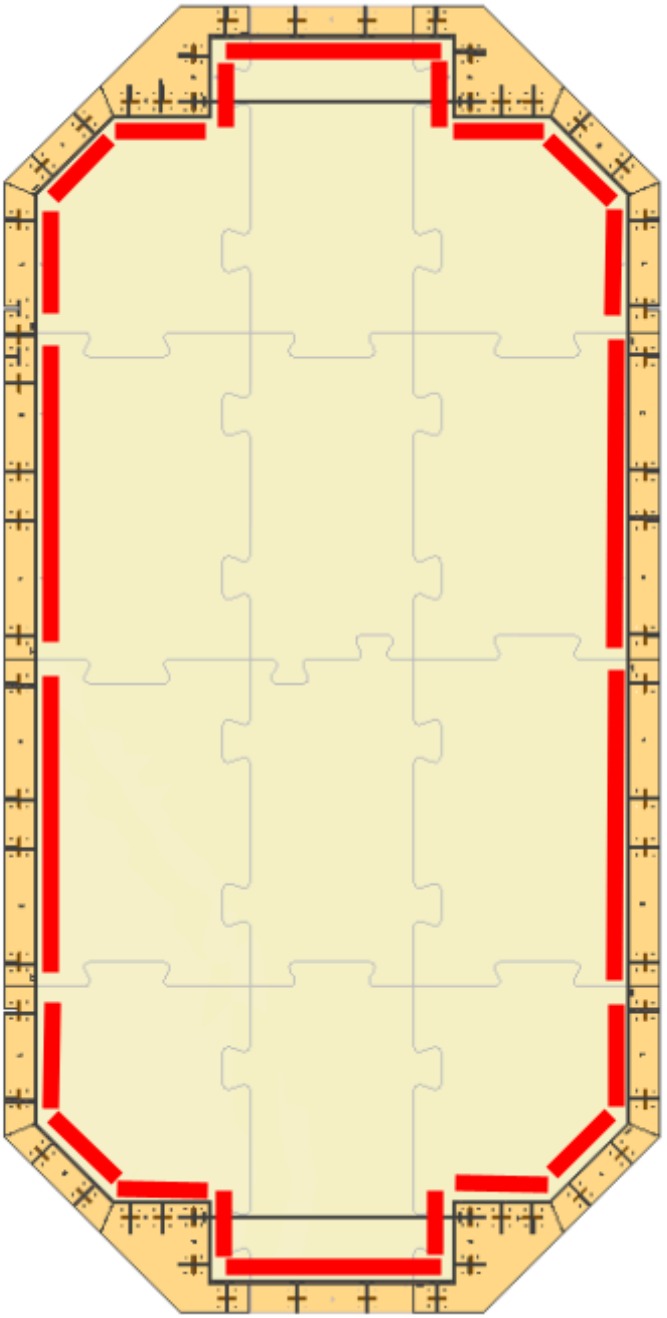
2. ***Connecting 'Support' to 'Wall':***



5. Assembly of Arena Roll

Step 5.1: Time for Glue Tape

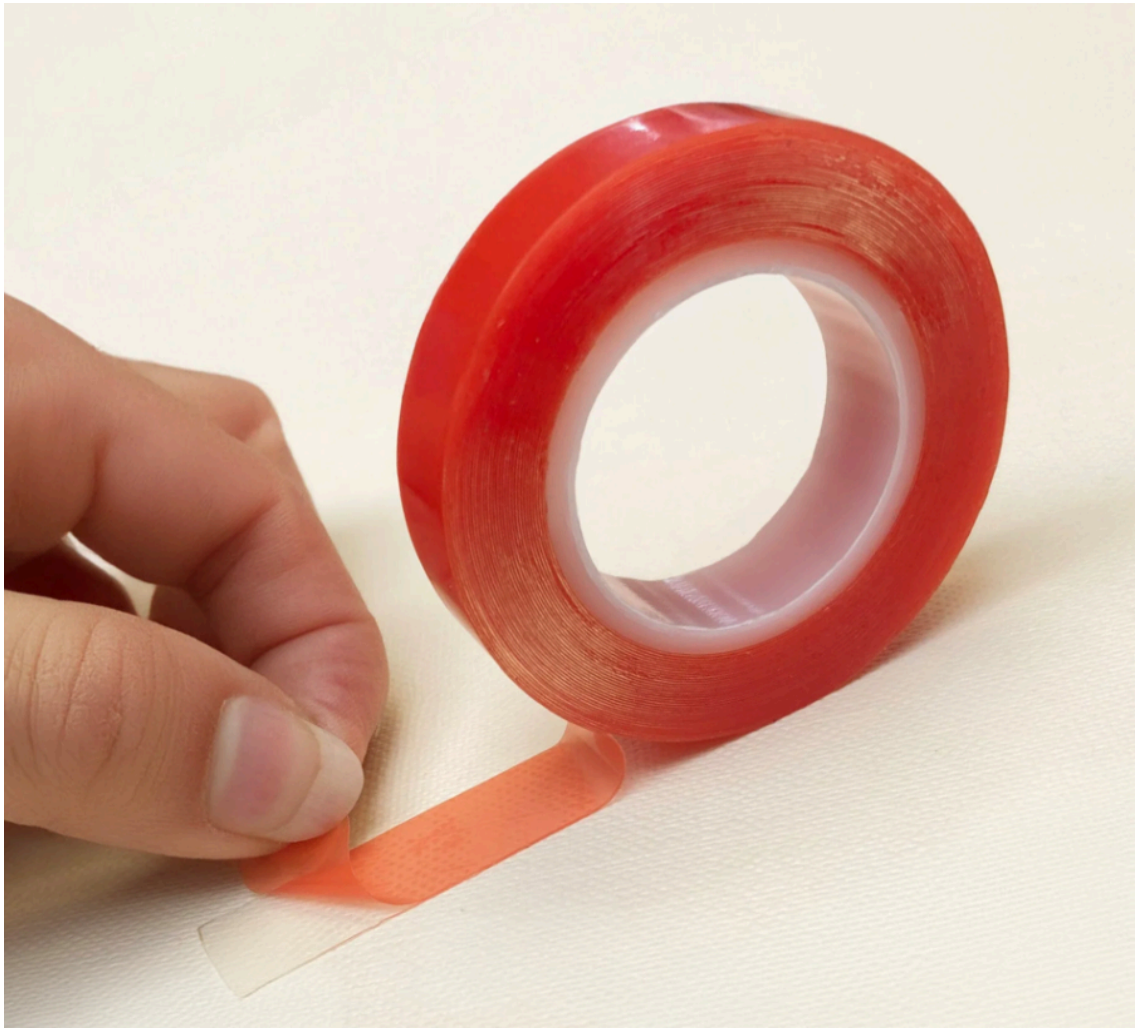
Apply pieces of double-sided tape to the red-highlighted areas on the puzzle base plates of the arena.



Step 5.2: How to use the double-sided tape

Carefully peel and apply the double-sided tape to the designated areas on the MDF base, as illustrated in ***Step 5.1.***

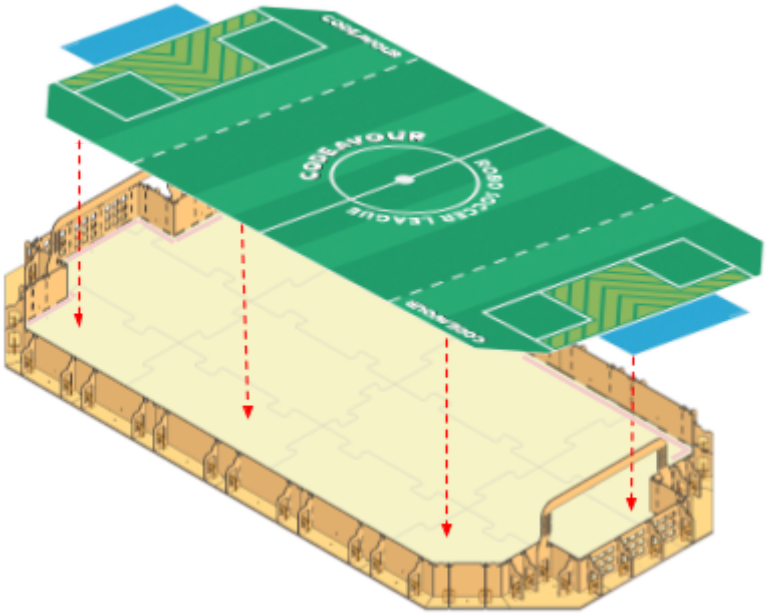
Once all the tape is in place, remove the top red protective layer. The transparent, double-sided adhesive will then secure the printed Arena to the MDF base.

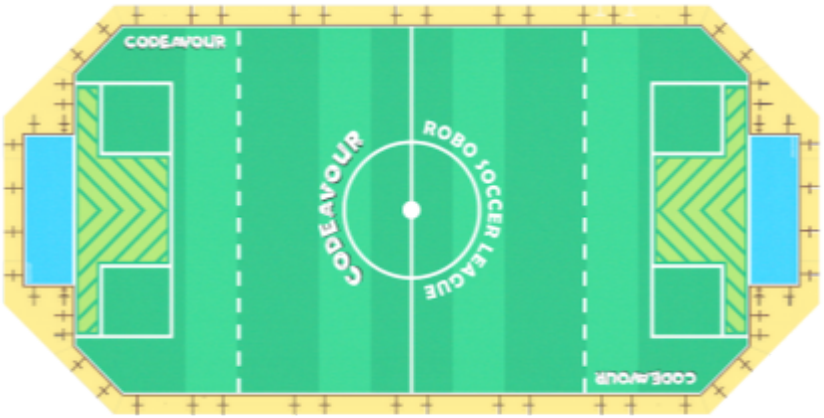


Step 5.3: Arena Print Assembly

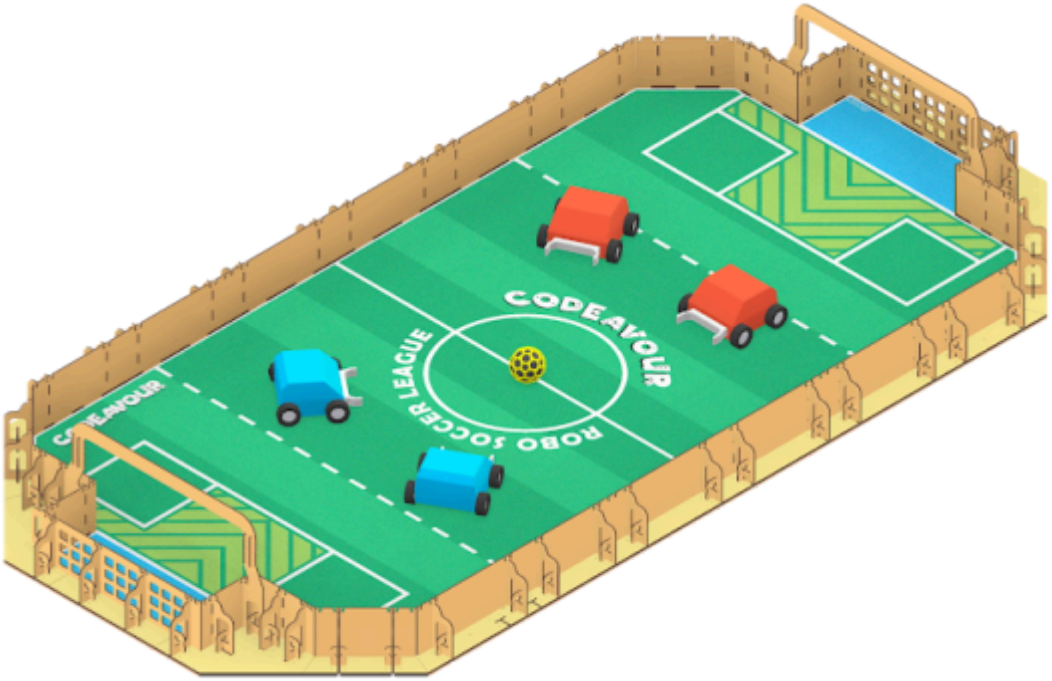
NOTE: Make sure the MDF base and printed arena are both clean and free of dust before you paste them.

Peel off the double-sided tape, unroll the ***Arena*** (Printed Greyback Roll), and carefully paste it on the Arena Base. Remove the ***Goal Arch (T3-RSA-25)*** if needed for ease of alignment near the Goal post areas.





The Robo Soccer Arena is ready to play!



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