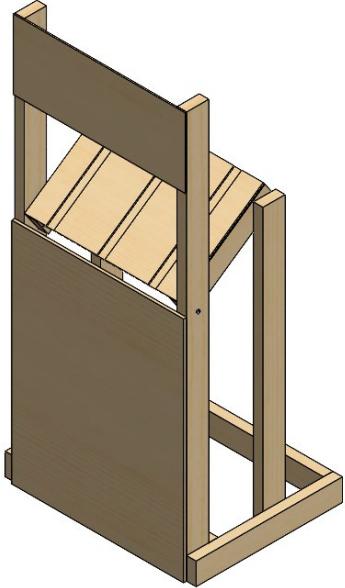


TE-25000 CORAL STATION


Description: This is a Coral Station, designed so that teams can practice acquiring game pieces. This could be modified to be the full width Coral Station but is condensed to be cheaper to manufacture and easier to assemble and store. This Coral Station is designed for a paper or sticker April Tag to be added.

In this compressed folder, you will find all of the drawings, CAD Files and STEP Files for this design.

Drawings: All drawing files have been exported to PDF Format. Each major field assembly will have both assembly drawings and component drawings.

CAD Files: All SOLIDWORKS files required to build or modify the assembly.

STEP files: STEP files of the assembly are included for the convenience of non-SOLIDWORKS users.

Shopping List (if building multiple team element designs, plywood and lumber can be consolidated):

Plywood and Lumber (Example Cut List is at end of Readme):

- 2" x 4" x 8' Lumber – 4 Pieces
- 4' x 4' x 1/4" Thick Plywood – 1 Sheet
- 4' x 4' x 1/2" Thick Plywood – 1 Sheet

Hardware/Other:

- #8 Wood Screws x 2.5" long – Approximately 20 Pieces
- #8 Wood Screws x 1.5" long – Approximately 16 Pieces
- 1/4-20 x 3.5" long bolt – 2 Pieces
- 1/4-20 Wing Nut – 2 Pieces
- Wood Glue

Notes about Hardware: All wood screws can be replaced with nuts and bolts of your choosing to make the design easier to disassemble and store. If this is not a concern for your team, wood screws will make for a sturdier assembly. Wood Glue can be replaced with wood screws, but will likely leave screws sticking out the underside of the ramp.

Notes about materials:

- Plywood and Hardboard Sheets – quality of plywood is up to the user. Plywood of lower qualities may contain voids and may warp more than high quality plywood. All dimensions listed are “nominal”. For example, $\frac{1}{2}$ ” plywood is typically $15/32$ ”.
- Lumber - quality of lumber is up to the user. Please keep in mind that lumber of lower qualities may warp more than high quality lumber. All dimensions below are the “mill cut” dimensions. For example, 2” x 4” lumber is really $1\frac{1}{2}$ ” x $3\frac{1}{2}$ ”.

Example Cut List (All units are Inches):

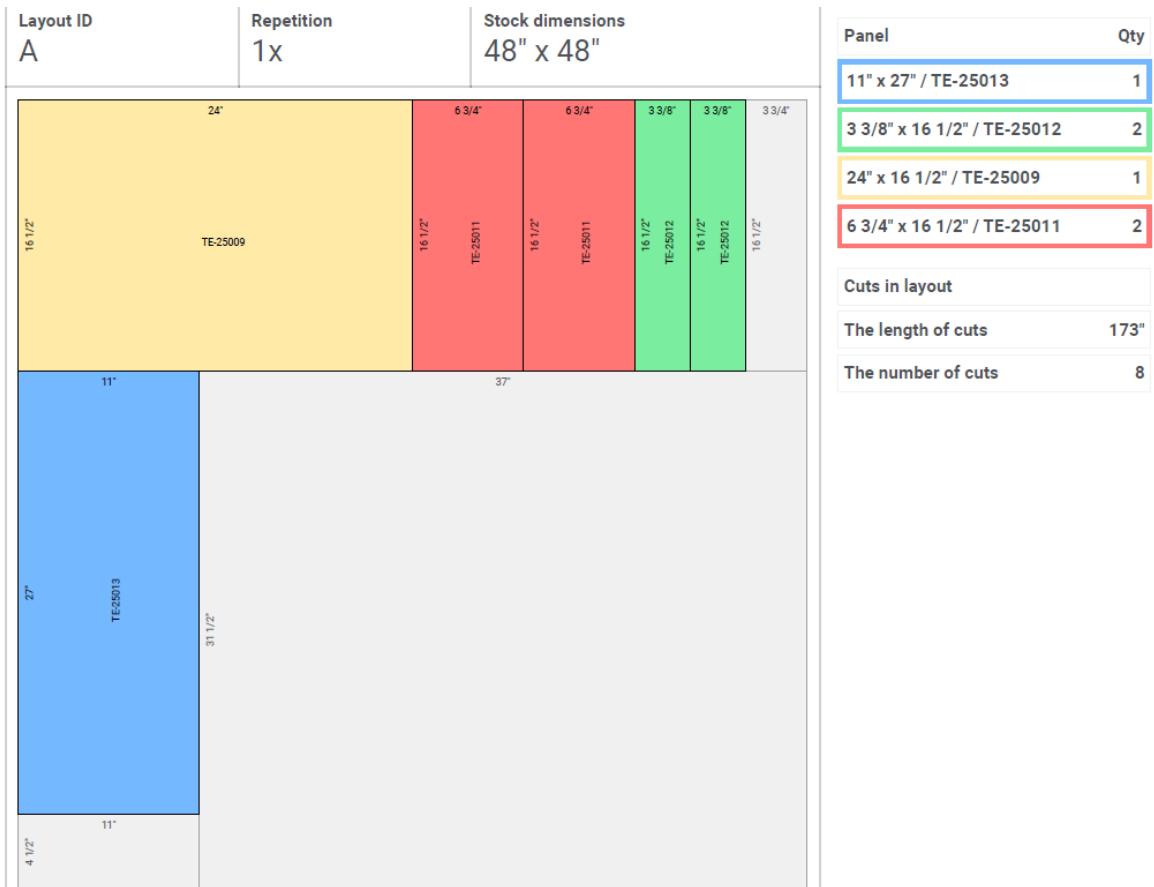
2x4 Lumber (4 Pieces, 2 of each layout shown):

Layout ID	Processed	Repetition	Stock length	Part length / Label	Qty	Cuts in layout
A	0/2 <input checked="" type="checkbox"/>	2x	96"	45" / TE-25010	1	The number of cuts 3
				27" / TE-25003	1	Waste
				23" / TE-25002	1	Material remnant 5/8"



Layout ID	Processed	Repetition	Stock length	Part length / Label	Qty	Cuts in layout
B	0/2 <input checked="" type="checkbox"/>	2x	96"	64" / TE-25005	1	The number of cuts 2
				16 1/2" / TE-25008	1	Waste
						Material remnant 15 1/4"

1/4" Plywood (Can be combined with Processor to fit it all on one sheet):



1/2" Plywood (can be combined with all other Team Elements to reduce number of purchased panels):

Layout ID A	Repetition 1x	Stock dimensions 48" x 48"	Panel 27" x 36" / TE-25006	Qty 1