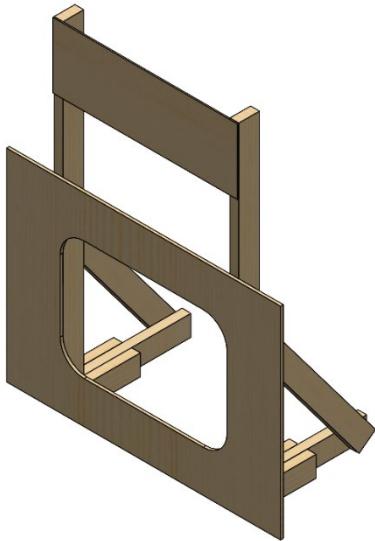


**TE-25100 PROCESSOR**


**Description:** This is a Processor, designed so that teams can practice scoring Algae. This Processor 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 – 3 Pieces
- 4' x 4' x 1/4" Thick Plywood – 1 Sheet
- 4' x 8' x 1/2" Thick Plywood – 1 Sheet

Hardware:

- #8 Wood Screws x 2.5" long – Approximately 16 Pieces
- #8 Wood Screws x 1.5" long – Approximately 10 Pieces

**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.

**Other Notes:**

TE-25101 can be a tricky part to make depending on what tools are available. This part can be split into multiple panels to be broken down into simpler cuts.

**Notes about materials:**

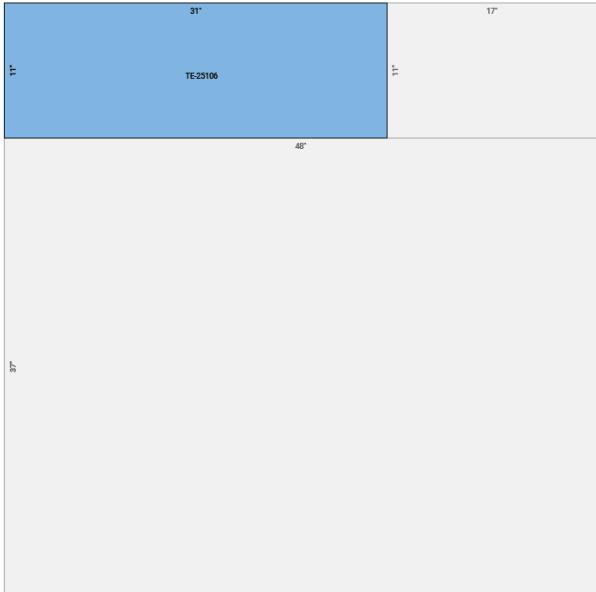
- Plywood and Hardboard Sheets – quality of plywood is up to the user. Plywood of lower qualities may contain voids and may warp more than high quality plywood. All dimensions listed are “nominal”. For example,  $\frac{1}{2}$ ” plywood is typically  $15/32$ ”.
- Lumber - quality of lumber is up to the 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 (3 Pieces):

Layout ID	Processed	Repetition	Stock length	Part length / Label	Qty	Cuts in layout	
A	0/1 <input checked="" type="checkbox"/>	1x	96"	56 5/8" / TE-25102	1	The number of cuts 3	
				18" / TE-25103	2	Waste	
						Material remnant 3"	
						Cut 3/8"	
56 5/8" TE-25102				18" TE-25103		18" TE-25103	
Layout ID	Processed	Repetition	Stock length	Part length / Label	Qty	Cuts in layout	
B	0/1 <input checked="" type="checkbox"/>	1x	96"	56 5/8" / TE-25102	1	The number of cuts 4	
				11 1/2" / TE-25105	3	Waste	
						Material remnant 4 3/8"	
						Cut 1/2"	
56 5/8" TE-25102				11 1/2" TE-25105		11 1/2" TE-25105	
Layout ID	Processed	Repetition	Stock length	Part length / Label	Qty	Cuts in layout	
C	0/1 <input checked="" type="checkbox"/>	1x	96"	31" / TE-25104	2	The number of cuts 3	
				11 1/2" / TE-25105	1	Waste	
						Material remnant 22 1/8"	
						Cut 3/8"	
31" TE-25104		31" TE-25104		11 1/2" TE-25105			

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

Layout ID	Repetition	Stock dimensions	Panel	Qty
A	1x	48" x 48"	31" x 11" / TE-25106	1
				

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

Layout ID	Repetition	Stock dimensions	Panel	Qty
A	1x	48" x 48"	34" x 46" / TE-25106	1
