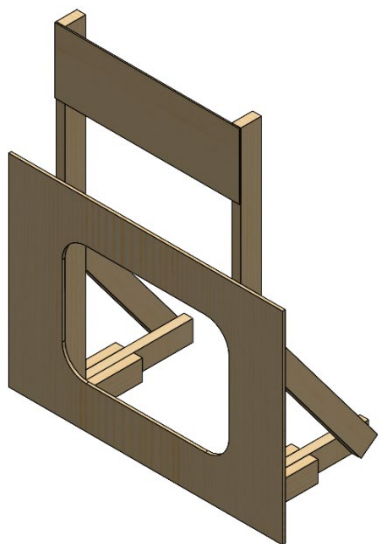


## TE-25100 PROCESSOR



**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, ½” 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 1½” x 3½”.

### Example Cut List (All units are Inches):

#### 2x4 Lumber (3 Pieces):


Layout ID A	Processed 0/1 <input checked="" type="checkbox"/>	Repetition 1x	Stock length 96"	<table><tr><th>Part length / Label</th><th>Qty</th></tr><tr><td>56 5/8" / TE-25102</td><td>1</td></tr><tr><td>18" / TE-25103</td><td>2</td></tr></table>	Part length / Label	Qty	56 5/8" / TE-25102	1	18" / TE-25103	2	<table><tr><th>Cuts in layout</th><td></td></tr><tr><td>The number of cuts</td><td>3</td></tr><tr><td>Waste</td><td></td></tr><tr><td>Material remnant</td><td>3"</td></tr><tr><td>Cut</td><td>3/8"</td></tr></table>	Cuts in layout		The number of cuts	3	Waste		Material remnant	3"	Cut	3/8"
Part length / Label	Qty																				
56 5/8" / TE-25102	1																				
18" / TE-25103	2																				
Cuts in layout																					
The number of cuts	3																				
Waste																					
Material remnant	3"																				
Cut	3/8"																				
56 5/8" TE-25102				18" TE-25103	18" TE-25103																

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

Layout ID C	Processed 0/1 <input checked="" type="checkbox"/>	Repetition 1x	Stock length 96"	<table><tr><th>Part length / Label</th><th>Qty</th></tr><tr><td>31" / TE-25104</td><td>2</td></tr><tr><td>11 1/2" / TE-25105</td><td>1</td></tr></table>	Part length / Label	Qty	31" / TE-25104	2	11 1/2" / TE-25105	1	<table><tr><th>Cuts in layout</th><td></td></tr><tr><td>The number of cuts</td><td>3</td></tr><tr><td>Waste</td><td></td></tr><tr><td>Material remnant</td><td>22 1/8"</td></tr><tr><td>Cut</td><td>3/8"</td></tr></table>	Cuts in layout		The number of cuts	3	Waste		Material remnant	22 1/8"	Cut	3/8"
Part length / Label	Qty																				
31" / TE-25104	2																				
11 1/2" / TE-25105	1																				
Cuts in layout																					
The number of cuts	3																				
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):

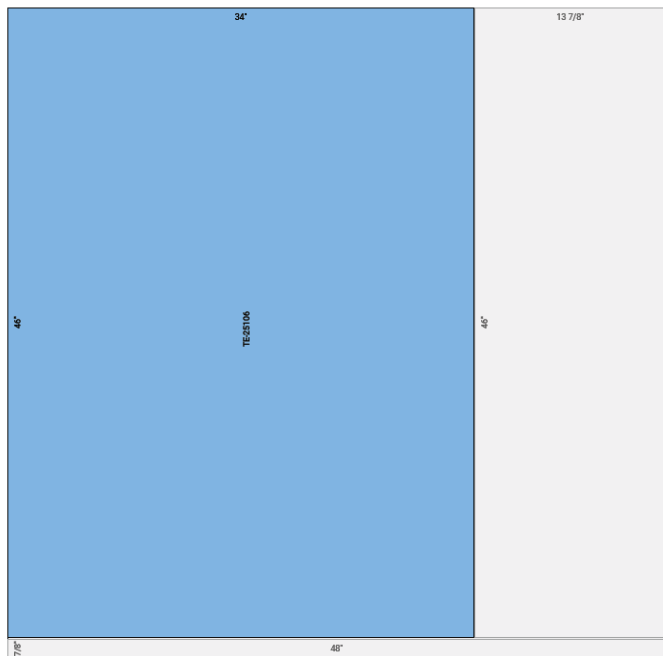
Layout ID	Repetition	Stock dimensions	Panel	Qty
A	1x	48" x 48"	31" x 11" / TE-25106	1



Cuts in layout	
The length of cuts	59"
The number of cuts	2

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



Cuts in layout	
The length of cuts	94"
The number of cuts	2