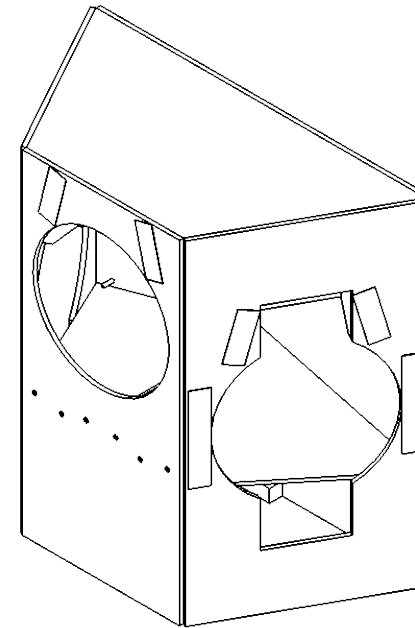


2

1



ITEM NO.	PART NUMBER	QTY.
1	TE-19110-01	1
2	TE-19110-02	2
3	TE-19110-03	1
4	TE-19110-04	2
5	TE-19110-05	2
6	TE-19110-06	11
7	TE-19110-07	4
8	TE-19110-08	2
9	TE-19110-09	4
10	TE-19110-11	6
11	TE-19110-12	3
12	flat_phil_.25_20_1.75	12

Material	QTY
15/32"(1/2") A/C or CDX Plywood	1.5 sheets
2"x 4"x 8'	.25
2"x 2"x 8'	1
Flat head Philips 1/4"-20 x 1.75"	12
2" Hook Fastener	94"
2" Vison Tape	33"
1.25" screws	~60
2.5" screws	~10



B

A

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			DIMENSIONS ARE IN INCHES	DRAWN				<b>TITLE:</b> <h1>Single Bay Rocket</h1>
			TOLERANCES:	CHECKED				
			FRACTIONAL ±1/16	ENG APPR.				
			ANGULAR: MACH ±1° BEND ±1°	MFG APPR.				
			TWO PLACE DECIMAL ±.01	Q.A.				
		THREE PLACE DECIMAL ±.001	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:					<b>SIZE</b> <b>DWG. NO.</b> <b>REV</b> <b>A</b> <b>TE-19110</b>	
		MATERIAL					<b>SCALE:</b> 1:16 <b>WEIGHT:</b> <b>SHEET</b> 1 OF 8	
	NEXT ASSY	USED ON	FINISH					
	APPLICATION		DO NOT SCALE DRAWING					

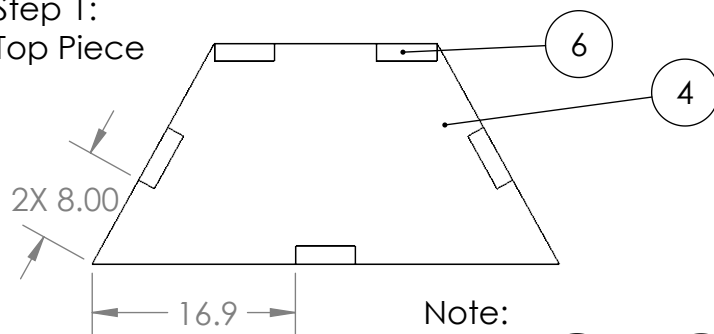
2

1

2

1

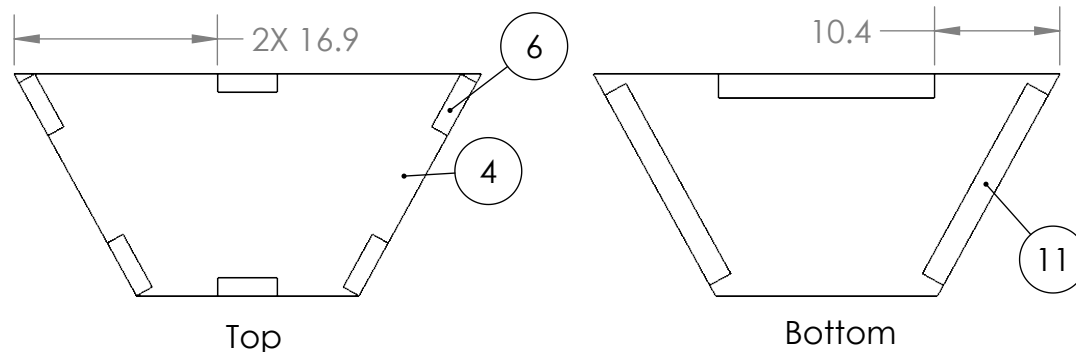
Step 1:  
Top Piece



Note:

Attach (6) to (4), 5 places.  
Pre-drill and attach using 1.25" screws

Step 2: Bottom Piece



Top

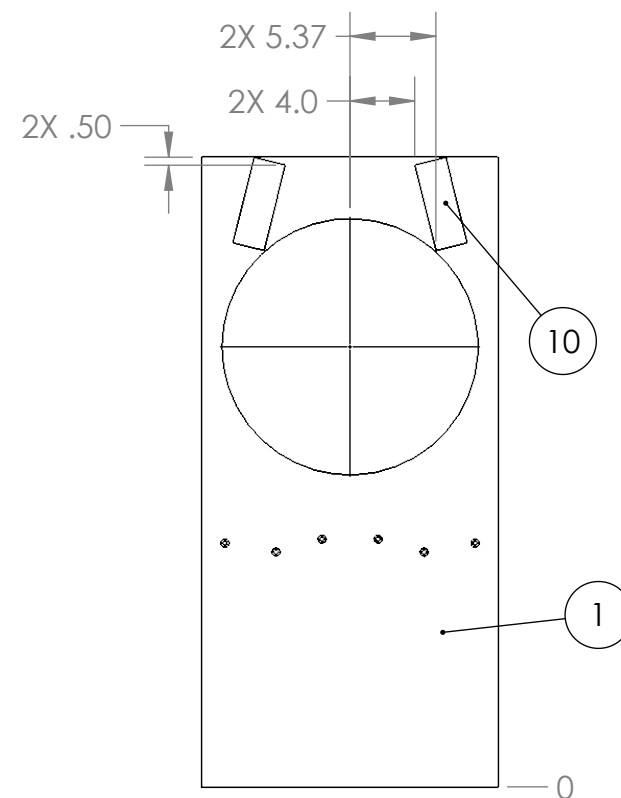
Bottom

Note:

Attach (6) to (4), 6 places.  
Pre-drill and attach using 1.25" screws.

Attach (11) to the bottom in 3 places.  
Pre-drill and attach using 1.25" screws.

Step 3:



Note:

Attach (10) to (1) as shown.

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DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .01$   
THREE PLACE DECIMAL  $\pm .001$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



**FIRST**  
ROBOTICS  
COMPETITION

**SOLIDWORKS**  
Modeling Solutions Partner

TITLE:

Single Bay  
Rocket

SIZE

**A**

DWG. NO.

TE-19110

REV

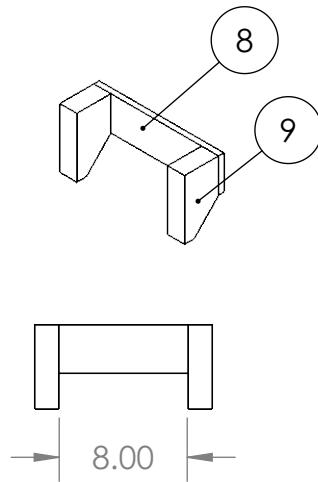
SCALE: 1:16 WEIGHT:

SHEET 2 OF 8

2

1

Step 4:

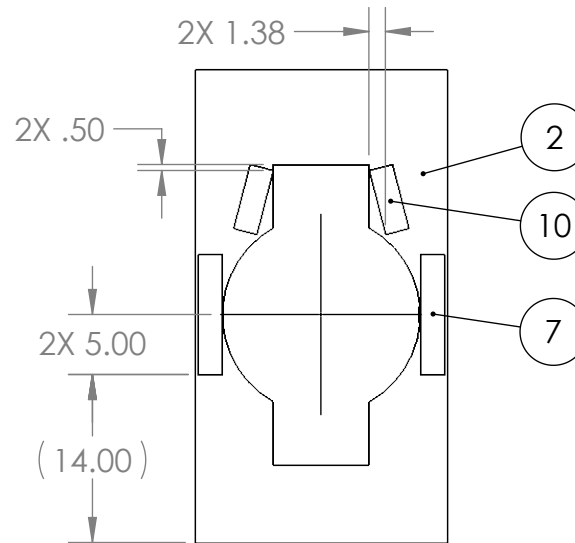


Notes:

Attach 8 to 9 as shown.

Pre-drill and attach using 1.25" screws.

Step 5:



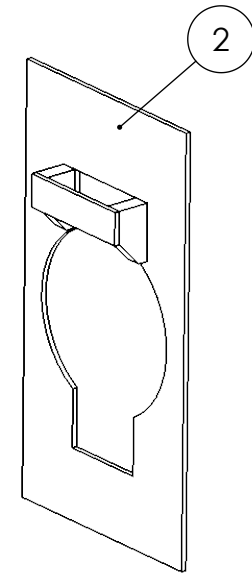
Note:

Attach 7 to 2 tangent to circle.

Attach 10 to 2 as shown.

Repeat for both Item 2.

Step 6:



Note:

Attach assembly from Step 4 to Item 2.

It should be flush to the top and side of cut out. Repeat.

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APPLICATION

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TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .01$   
THREE PLACE DECIMAL  $\pm .001$

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



**FIRST**  
**ROBOTICS**  
**COMPETITION**

**SOLIDWORKS**  
Modeling Solutions Partner

TITLE:

Single Bay  
Rocket

SIZE

A

DWG. NO.

TE-19110

REV

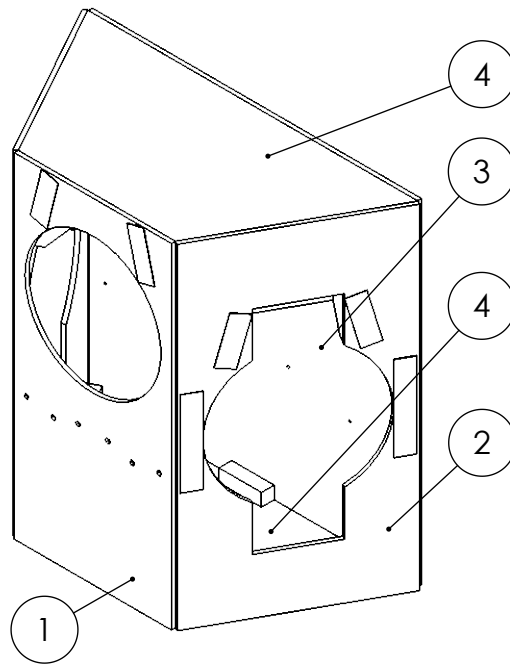
SCALE: 1:16 WEIGHT:

SHEET 3 OF 8

2

1

Step 7:

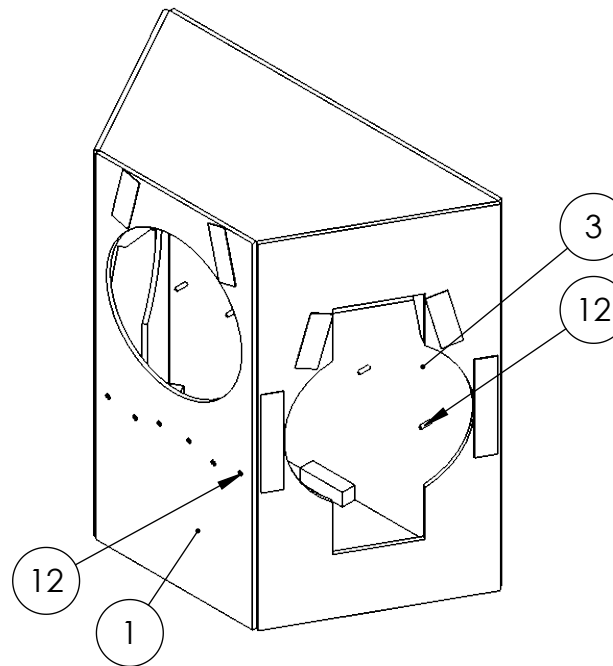


Note:

Attach Items (1), (2), and (3) to Item (4) as shown.

Pre-drill and use 1.25" screws.

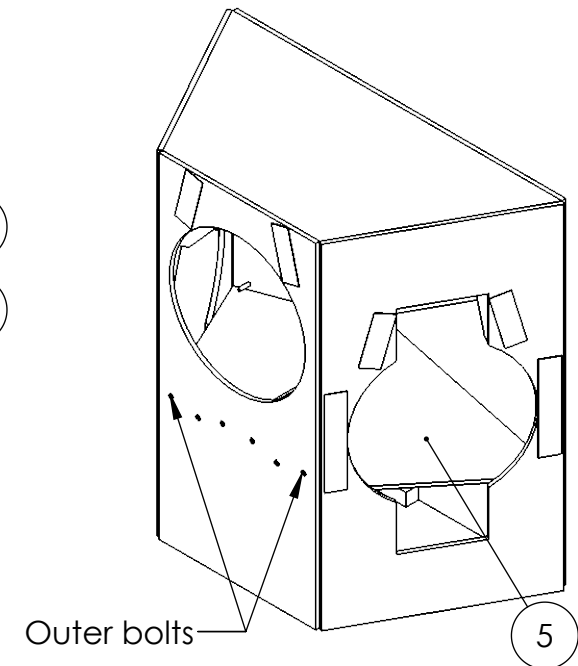
Step 8:



Note:

Insert (12) x12 in to (1) and (3). There should be a bolt in each counter sunk hole.

Step 9:



Note:

Place two Item (5) on top of the two inner bolts.

The outer bolts will be located on top of each ramp, securing it in position.



TITLE:

# Single Bay Rocket

SIZE

A

DWG. NO.

TE-19110

REV

SCALE: 1:16 WEIGHT:

SHEET 4 OF 8

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APPLICATION

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TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .01$   
THREE PLACE DECIMAL  $\pm .001$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

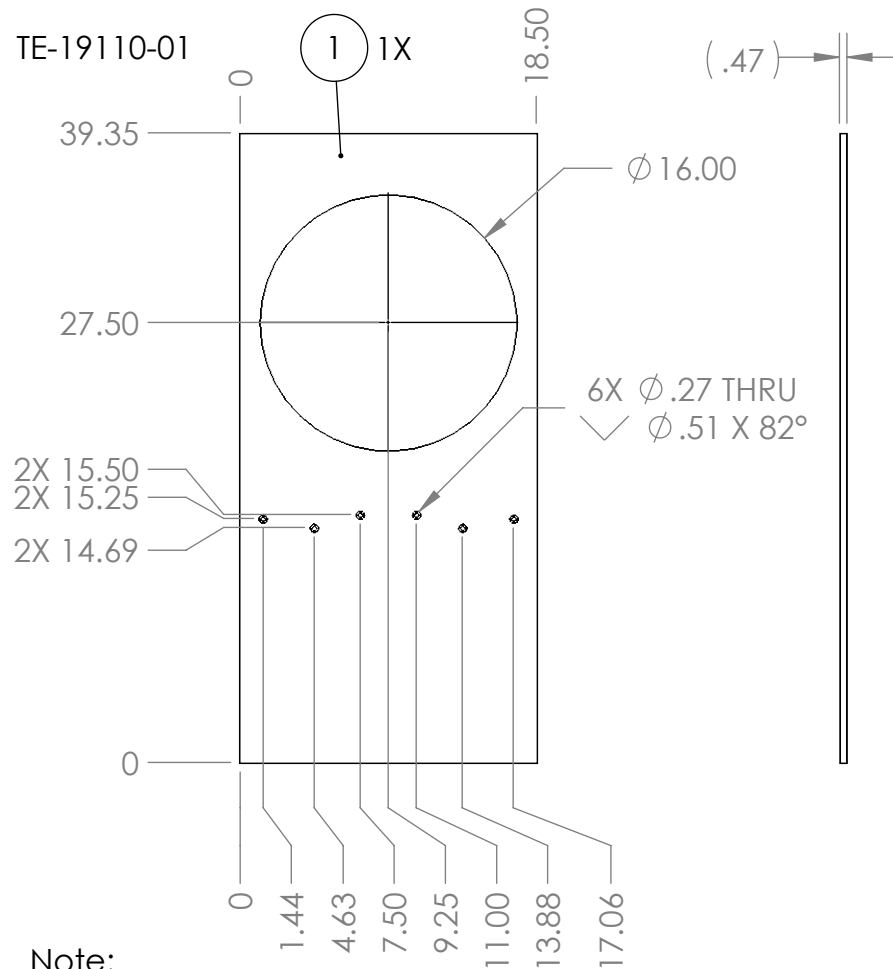
NAME

DATE

2

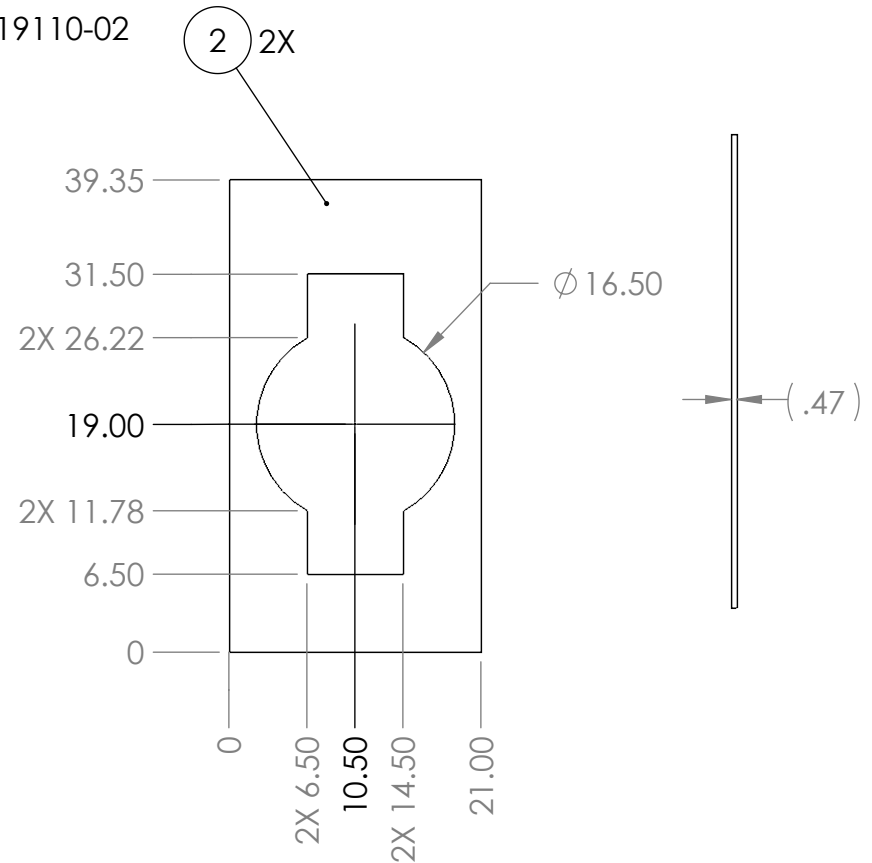
1

B



Note:  
15/32"(1/2") A/C or CDX Plywood

TE-19110-02



Note:  
15/32"(1/2") A/C or CDX Plywood

B

A

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TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .01$   
THREE PLACE DECIMAL  $\pm .001$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:



**FIRST  
ROBOTICS  
COMPETITION**

**SOLIDWORKS**  
Modeling Solutions Partner

TITLE:

Single Bay  
Rocket

SIZE

DWG. NO.

REV

**A****TE-19110**

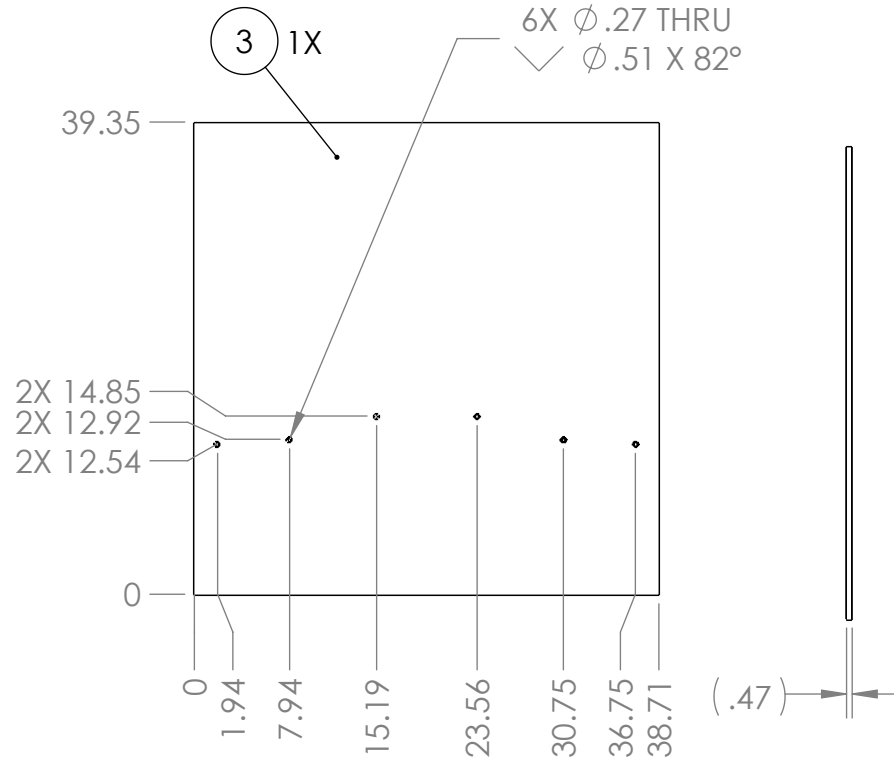
SCALE: 1:16 WEIGHT:

SHEET 5 OF 8

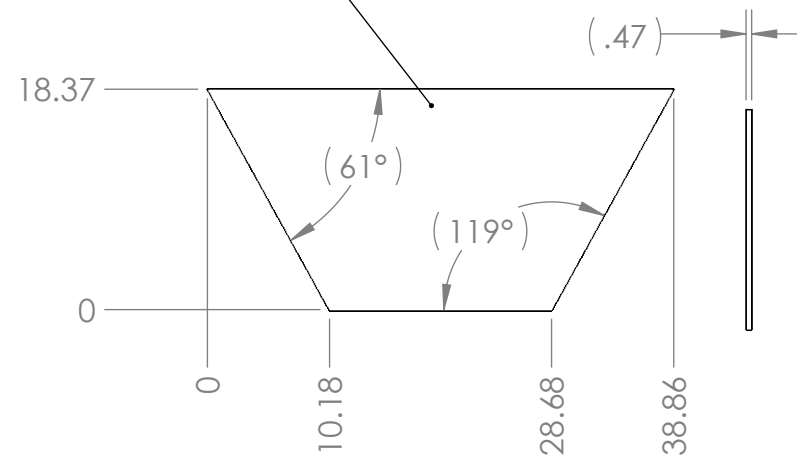
2

1

TE-19110-03



TE-19110-04



Note:  
15/32"(1/2") A/C or CDX Plywood

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		TOLERANCES:
		FRACTIONAL $\pm 1/16$
		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
		TWO PLACE DECIMAL $\pm .01$
		THREE PLACE DECIMAL $\pm .001$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		



TITLE:

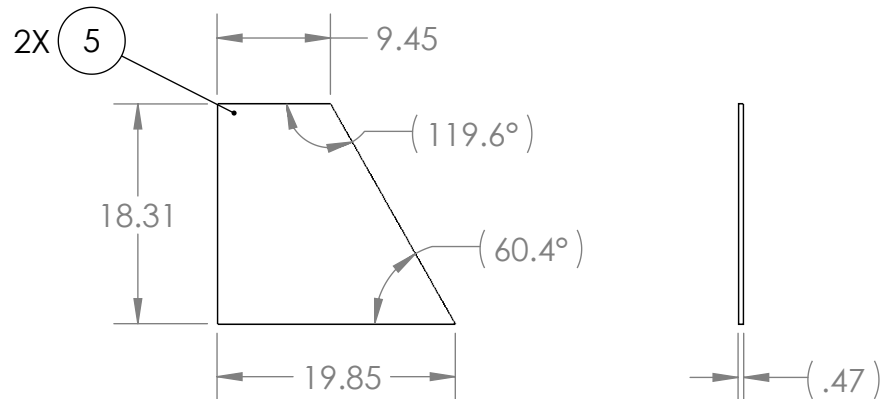
# Single Bay Rocket

SIZE	DWG. NO.	REV
<b>A</b>	TE-19110	
SCALE: 1:16		WEIGHT:
		SHEET 6 OF 8

2

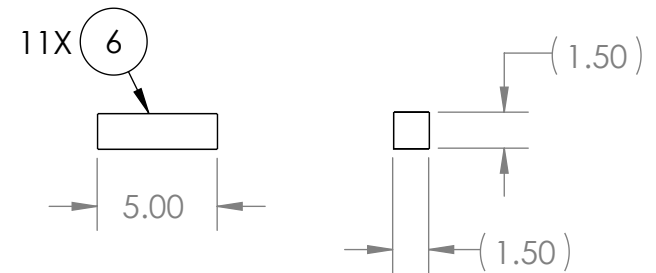
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TE-19110-05



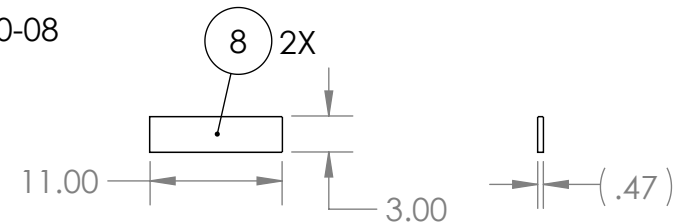
Note:  
15/32"(1/2") A/C or CDX Plywood

TE-19110-06



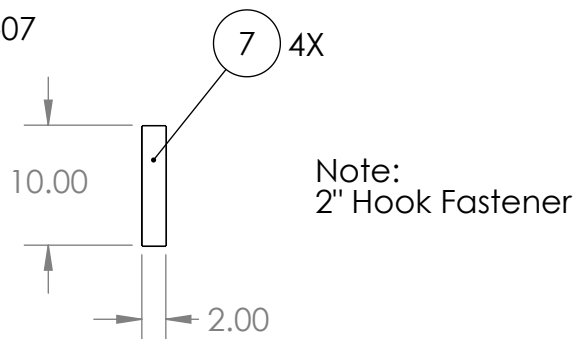
Note:  
2"x 2" Pine Lumber

TE-19110-08



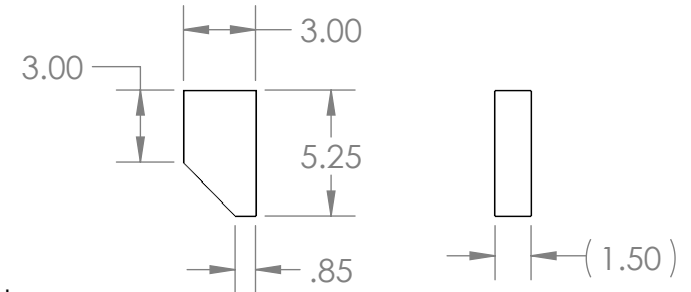
Note:  
15/32"(1/2") A/C or CDX Plywood

TE-19110-07



Note:  
2" Hook Fastener

TE-19110-09



Note:  
2"x 4" Pine Lumber

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ANGULAR: MACH  $\pm 1^\circ$  BEND  $\pm 1^\circ$   
TWO PLACE DECIMAL  $\pm .01$   
THREE PLACE DECIMAL  $\pm .001$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

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MFG APPR.

Q.A.

COMMENTS:



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**COMPETITION**

**SOLIDWORKS**  
Modeling Solutions Partner

TITLE:

Single Bay  
Rocket

SIZE

A

DWG. NO.

TE-19110

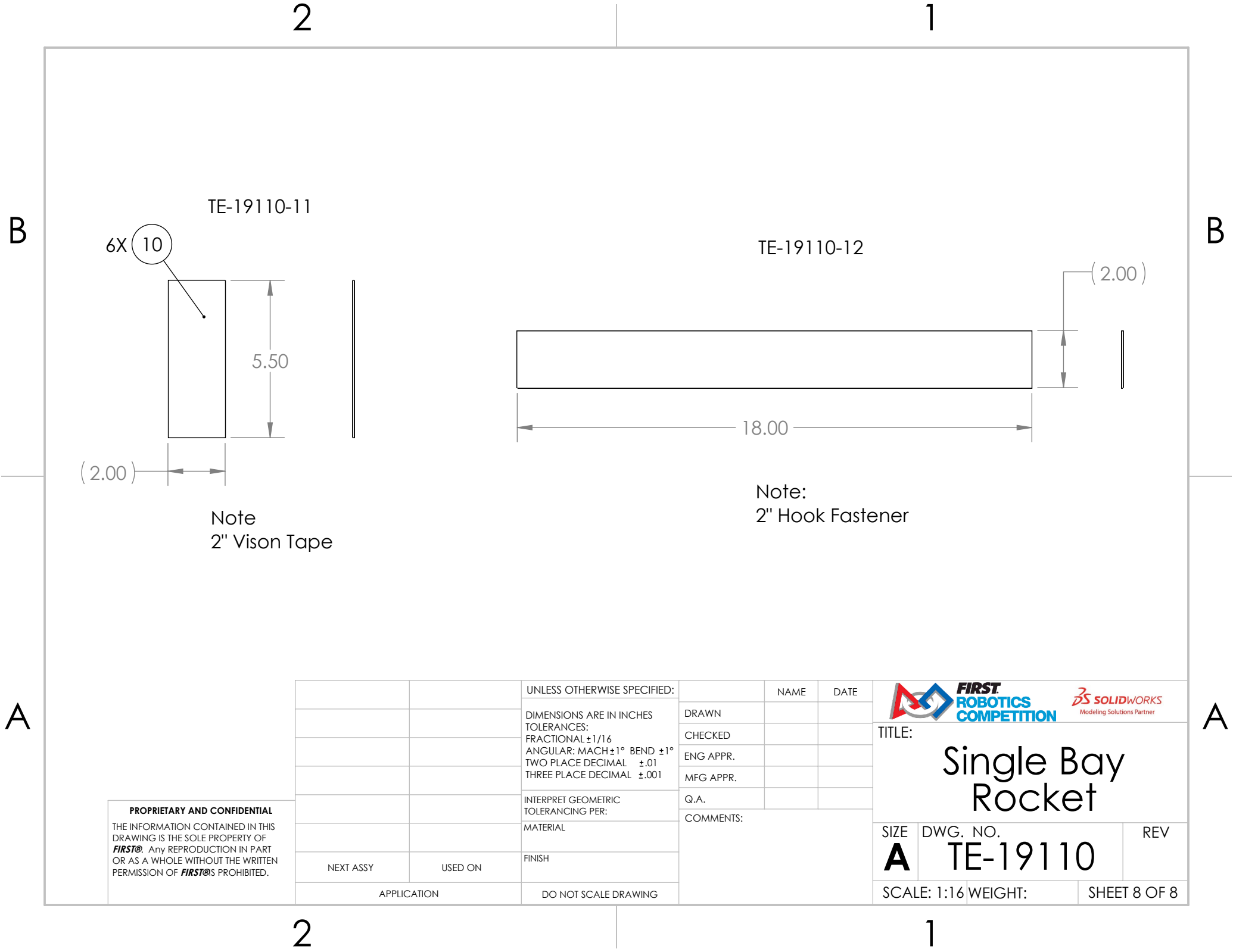
REV

SCALE: 1:16 WEIGHT:

SHEET 7 OF 8

2



1



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		ANGULAR: MACH $\pm 1^\circ$ BEND $\pm 1^\circ$
		TWO PLACE DECIMAL $\pm .01$
		THREE PLACE DECIMAL $\pm .001$
		INTERPRET GEOMETRIC
		TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		



TITLE:

# Single Bay Rocket

SIZE	DWG. NO.	REV
<b>A</b>	<b>TE-19110</b>	

SCALE: 1:16	WEIGHT:	SHEET 8 OF 8
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