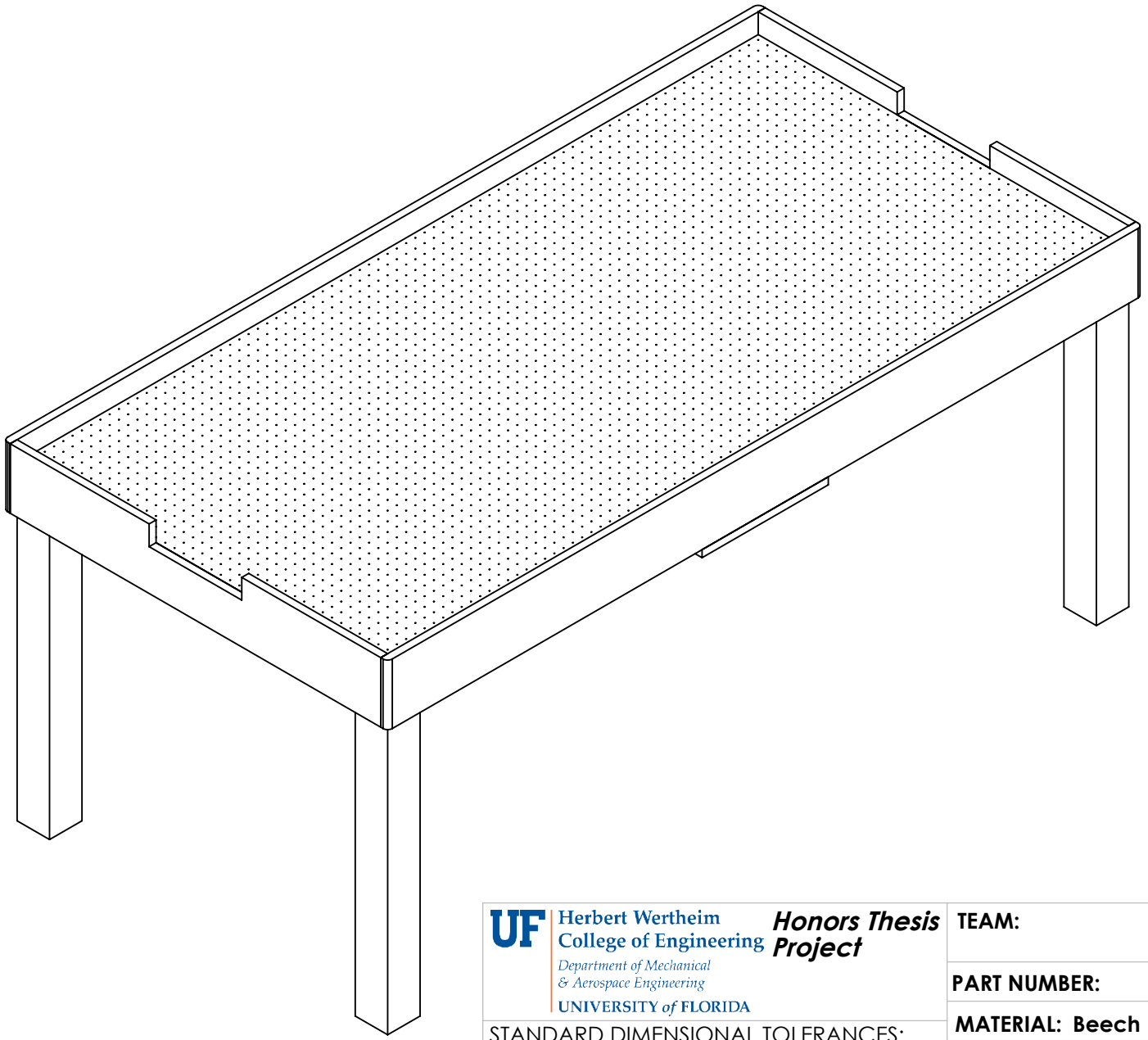


1:12 SCALE
ALL PLYWOOD IS 3/4

BOM:
4 CROSS BEAMS, 2x4
4 LEGS, 4x4
1 PERF TOP, MELAMINE
1 DUCT TOP, 3/4" MDF
1 BOTTOM DUCT, PLY
2 SS-SIDES, PLY
2 FB-SIDES, PLY

FEEL FREE TO MODIFY AS NEEDED, BUT COMMUNICATE MODIFICATIONS TO FRONT AND BACK FOR ROBOT PLACEMENT

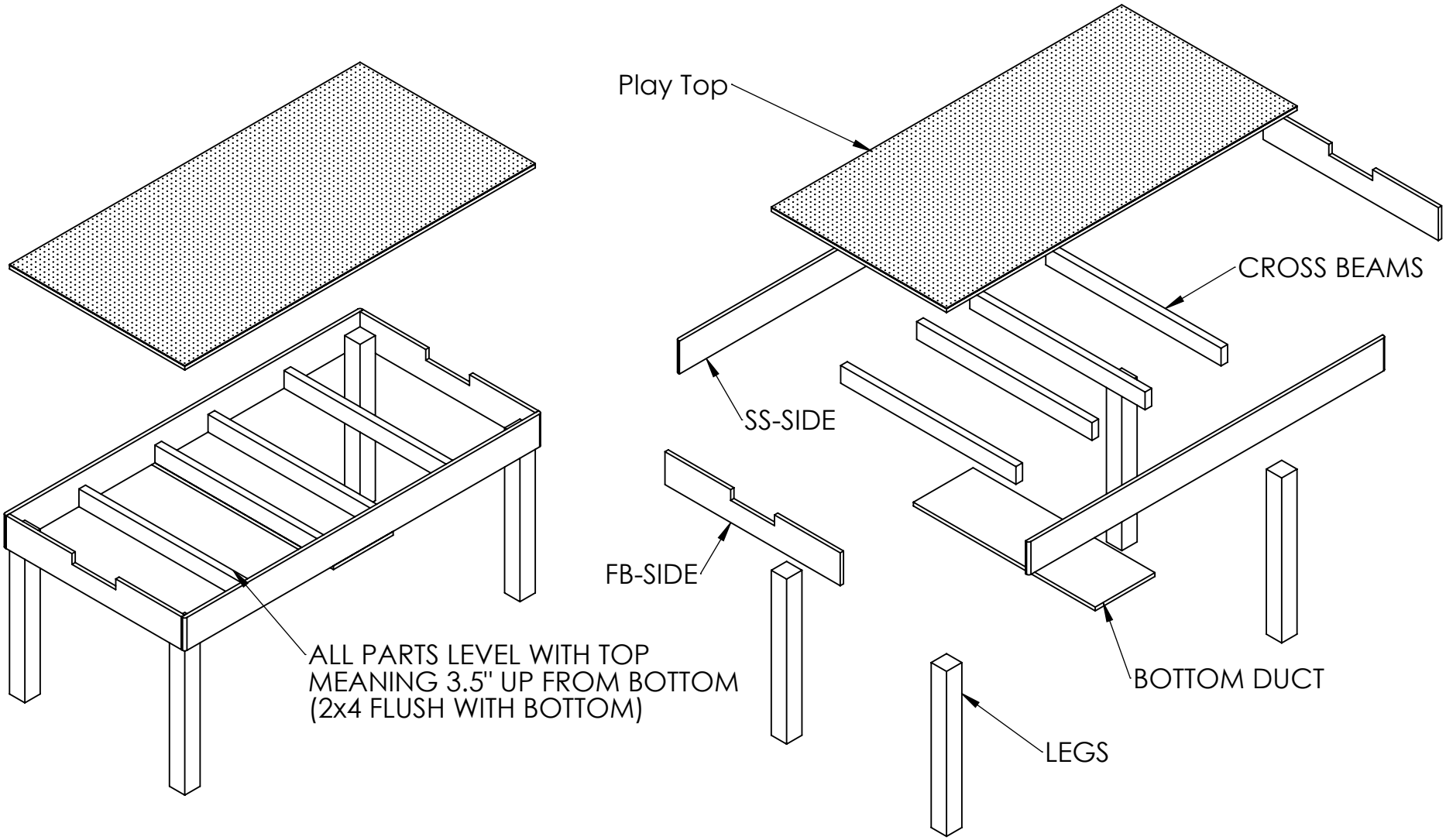
UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

STANDARD DIMENSIONAL TOLERANCES:			
LINEAR [in]		ANGULAR [degrees]	
X.X:	**±1**	**X:**	**±3**
X.XX:	**±.1**	**X.X:**	**±.5**
X.XXX:	**±.05**	**X.XX:**	**±.1**

TEAM:	**PART NAME:** Air Table
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	
PART LOCATION:	

SHEET SCALE: 1:24 **SHEET NUMBER: 1 of 4**



UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

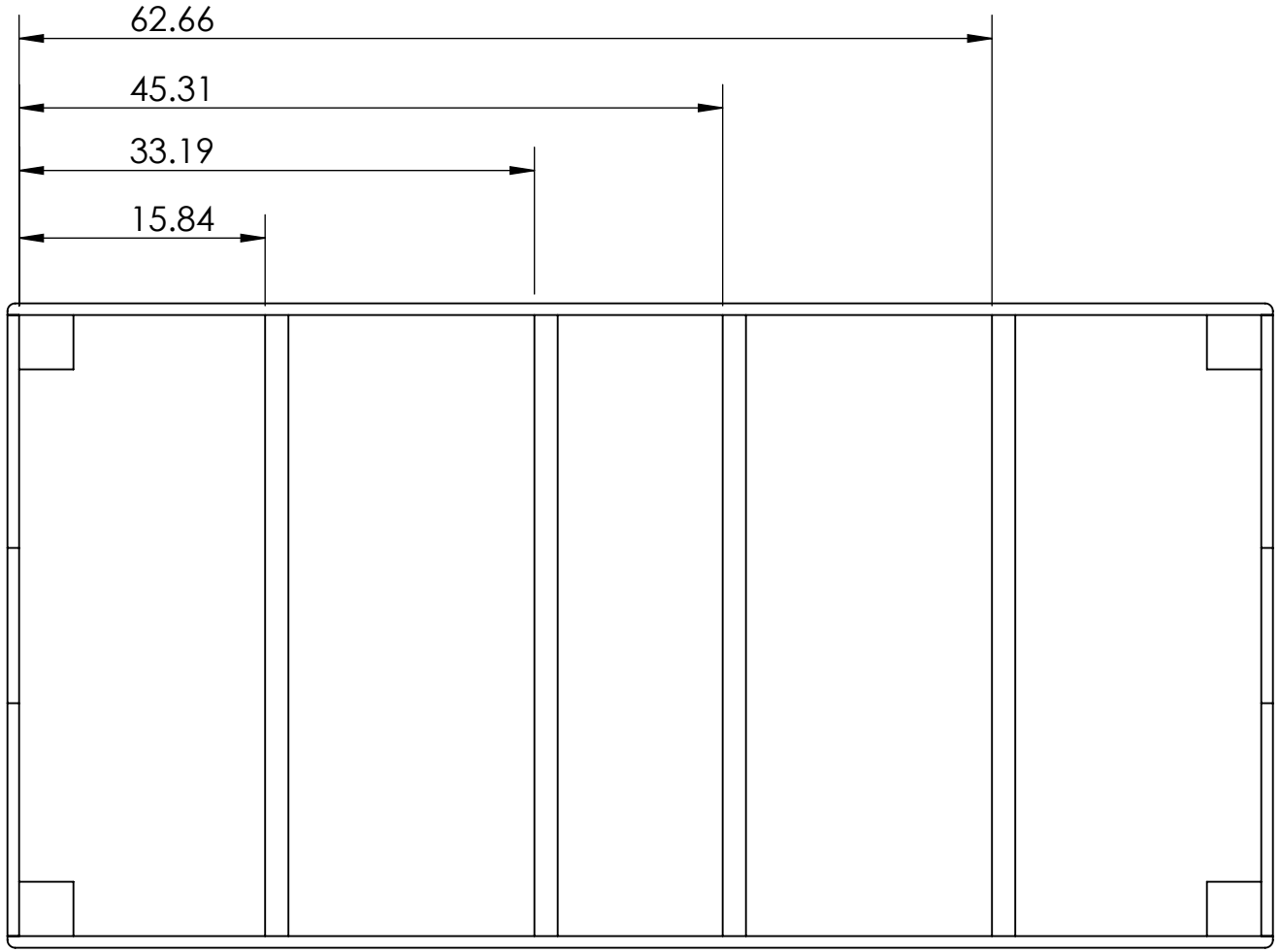
TEAM:	**PART NAME:** Air Table
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

STANDARD DIMENSIONAL TOLERANCES:

LINEAR [in]		ANGULAR [degrees]	
X.X:	±1	X:	±3
X.XX:	±.1	X.X:	±.5
X.XXX:	±.05	X.XX:	±.1

PART LOCATION:

SHEET SCALE: 1:24 **SHEET NUMBER: 2 of 4**



Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

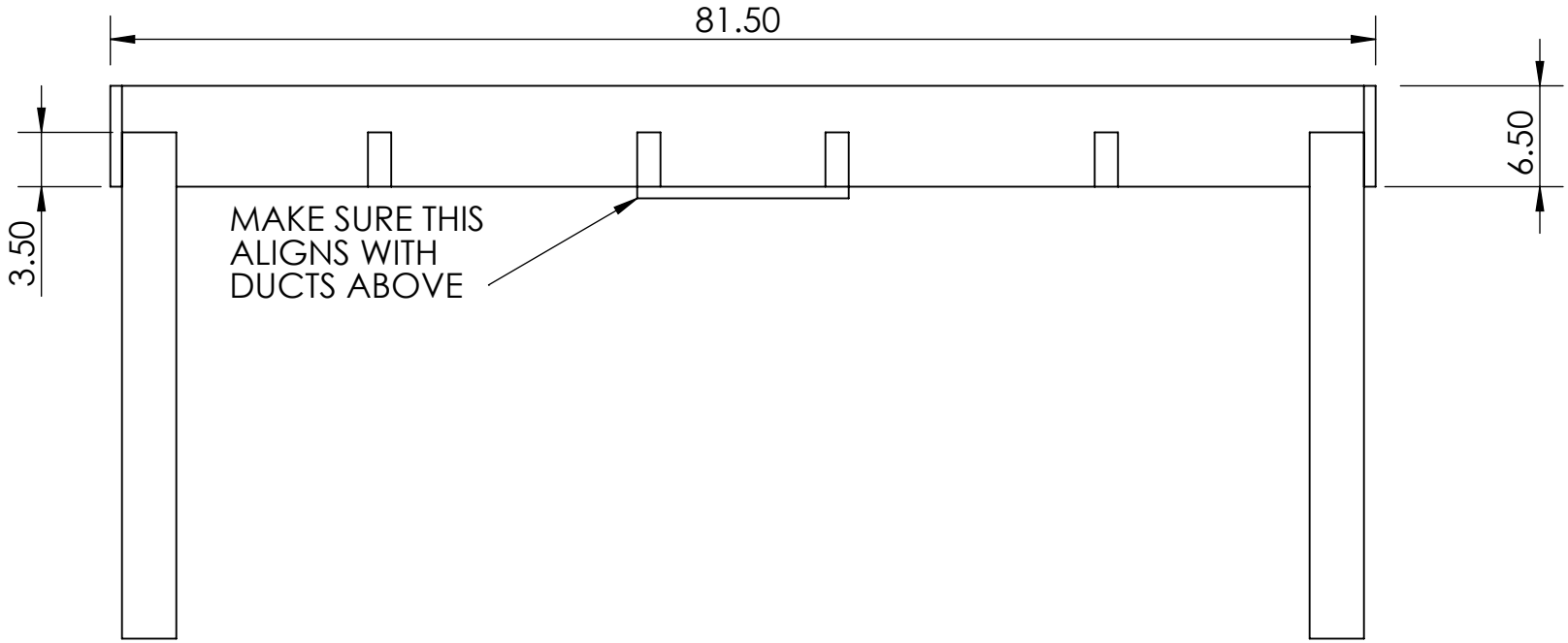
TEAM:	**PART NAME:** Air Table
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

STANDARD DIMENSIONAL TOLERANCES:

LINEAR [in]		ANGULAR [degrees]	
X.X:	±1	X:	±3
X.XX:	±.1	X.X:	±.5
X.XXX:	±.05	X.XX:	±.1

PART LOCATION:

SHEET SCALE: 1:12 **SHEET NUMBER:** 3 of 4

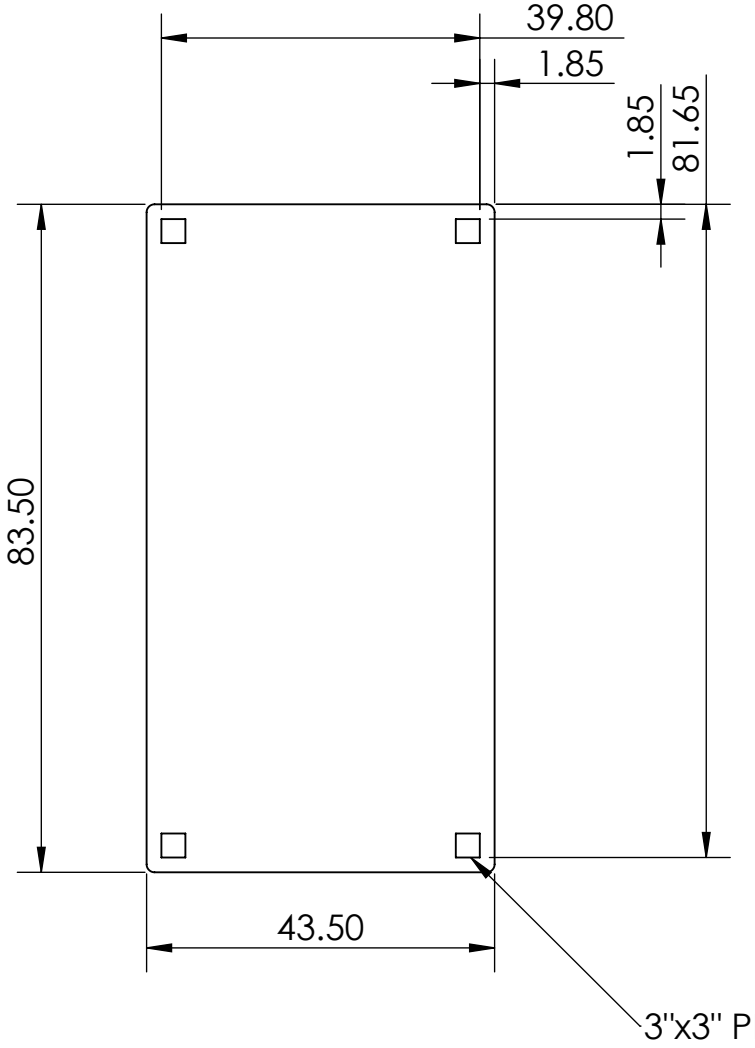


UF Herbert Wertheim College of Engineering — Department of Mechanical & Aerospace Engineering — UNIVERSITY of FLORIDA	***Honors Thesis Project***
TEAM:	**PART NAME:** Air Table
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	
PART LOCATION:	

STANDARD DIMENSIONAL TOLERANCES:

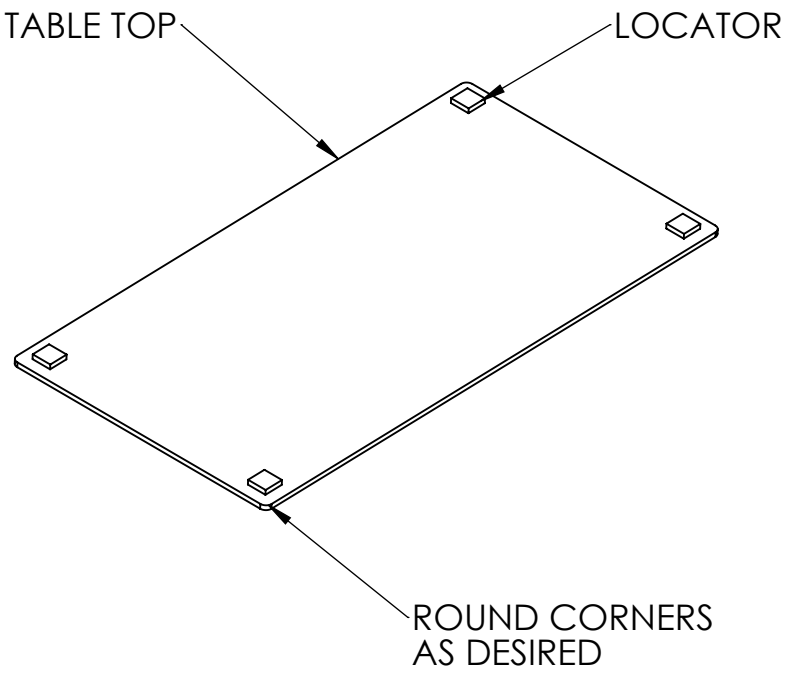
LINEAR [in]		ANGULAR [degrees]	
X.X:	±1	**X:**	±3
X.XX:	±.1	**X.X:**	±.5
X.XXX:	±.05	**X.XX:**	±.1

SHEET SCALE: 1:12 **SHEET NUMBER:** 4 of 4



CREATED BY CUTTING TOP AND 4 LOCATOR SQUARE
GLUE SHOULD WORK FOR CONNECTION

TOLERANCE BUILT INTO DIMS (0.1" ON EACH SIDE)
- 1.85 TURNS TO 1.75 WITHOUT TOLERANCE



UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

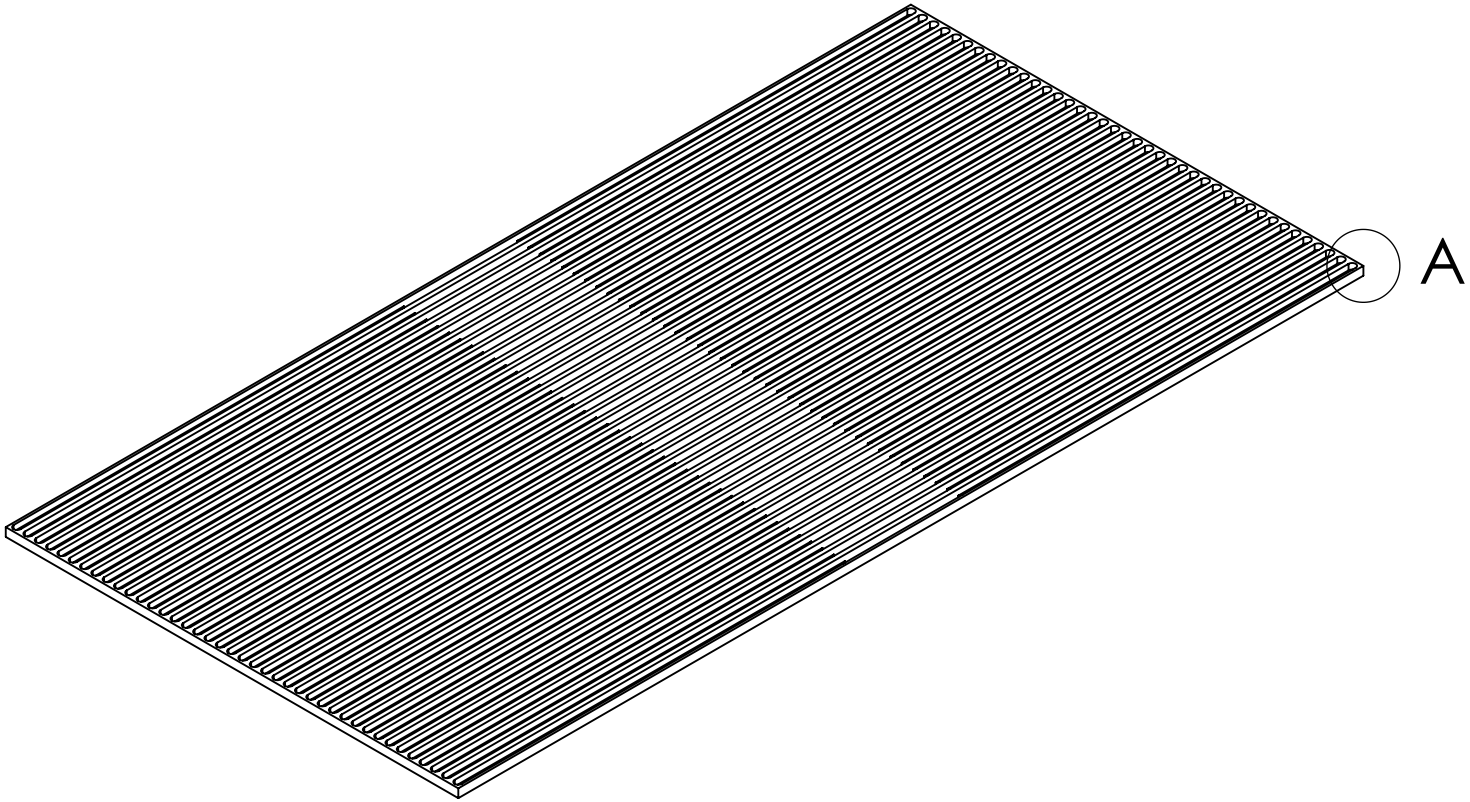
STANDARD DIMENSIONAL TOLERANCES:	
LINEAR [in]	ANGULAR [degrees]
X.X: ±1	**X:** ±3
X.XX: ±.1	**X.X:** ±.5
X.XXX: ±.05	**X.XX:** ±.1

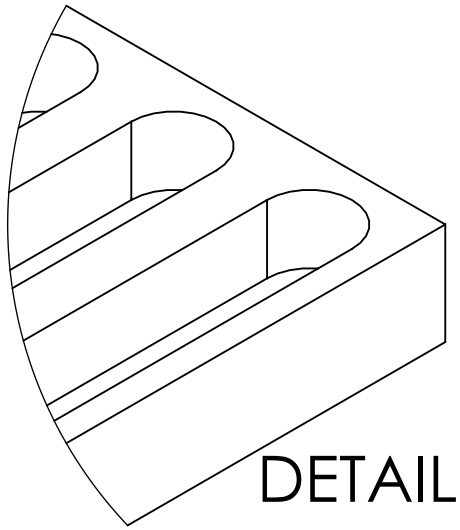
TEAM:	**PART NAME:** Air Table Top
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	
PART LOCATION:	

SHEET SCALE: 1:24 **SHEET NUMBER:** 1 of 1

QTY: 1, TYPE: 3/4 MDF (OR WHATEVER)

SLOT PATTERN IS 1" REPEATING, 5/8" WIDE, 1/2" DEEP SLOTS.
PATTERN STARTS AT x=0.5", y=0.5" AND FILLS ENTIRE SHEET





DETAIL A

SCALE 1 : 1

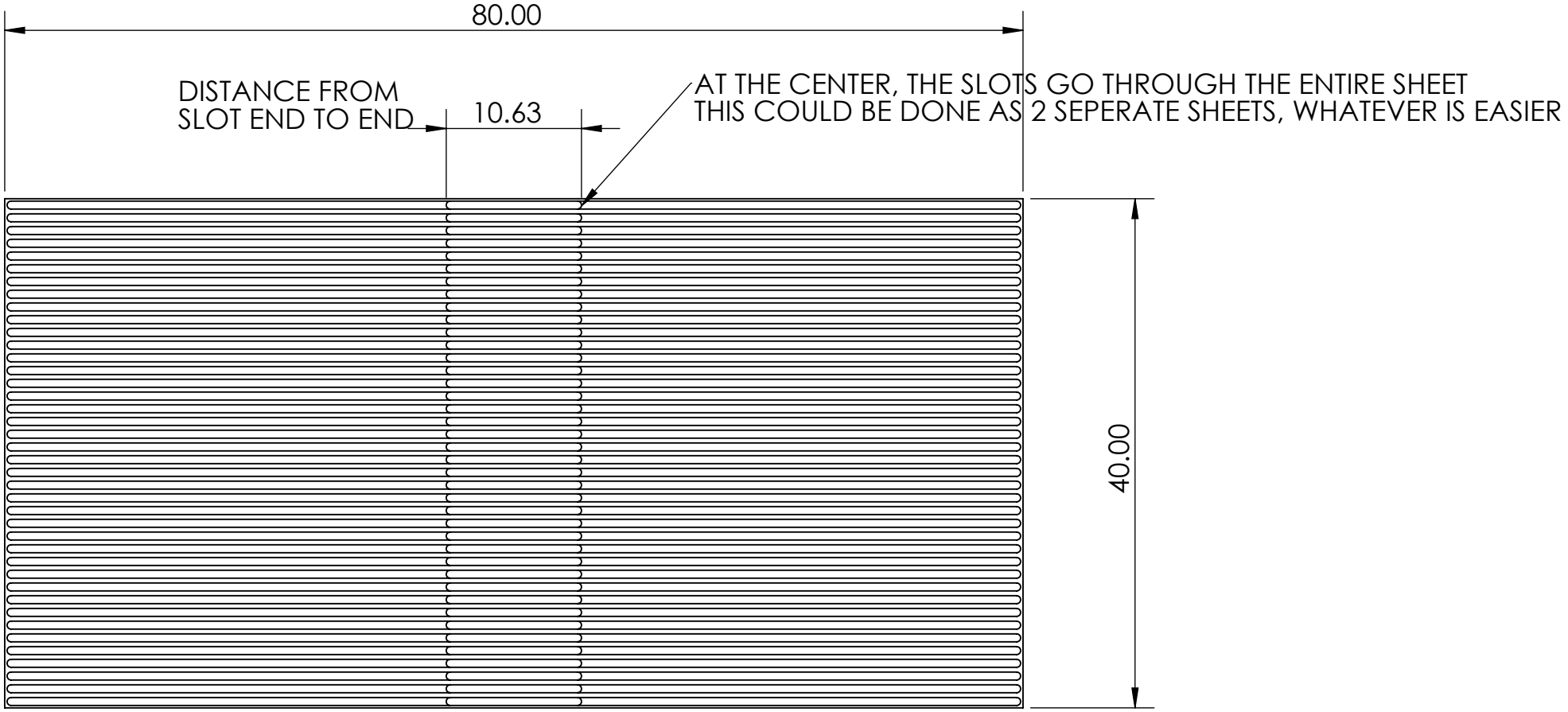
UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

STANDARD DIMENSIONAL TOLERANCES:			
LINEAR [in]		ANGULAR [degrees]	
X.X:	**±1**	**X:**	**±3**
X.XX:	**±.1**	**X.X:**	**±.5**
X.XXX:	**±.05**	**X.XX:**	**±.1**

TEAM:	**PART NAME: BOTTOM DUCT**
PART NUMBER:	**Rev:**
MATERIAL: 3/4 MDF	**FINISH: As machined**
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	
PART LOCATION:	

SHEET SCALE: 1:12 **SHEET NUMBER: 1 of 2**



UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

TEAM:	**PART NAME:** BOTTOM DUCT
PART NUMBER:	**Rev:**
MATERIAL: 3/4 MDF	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

STANDARD DIMENSIONAL TOLERANCES:

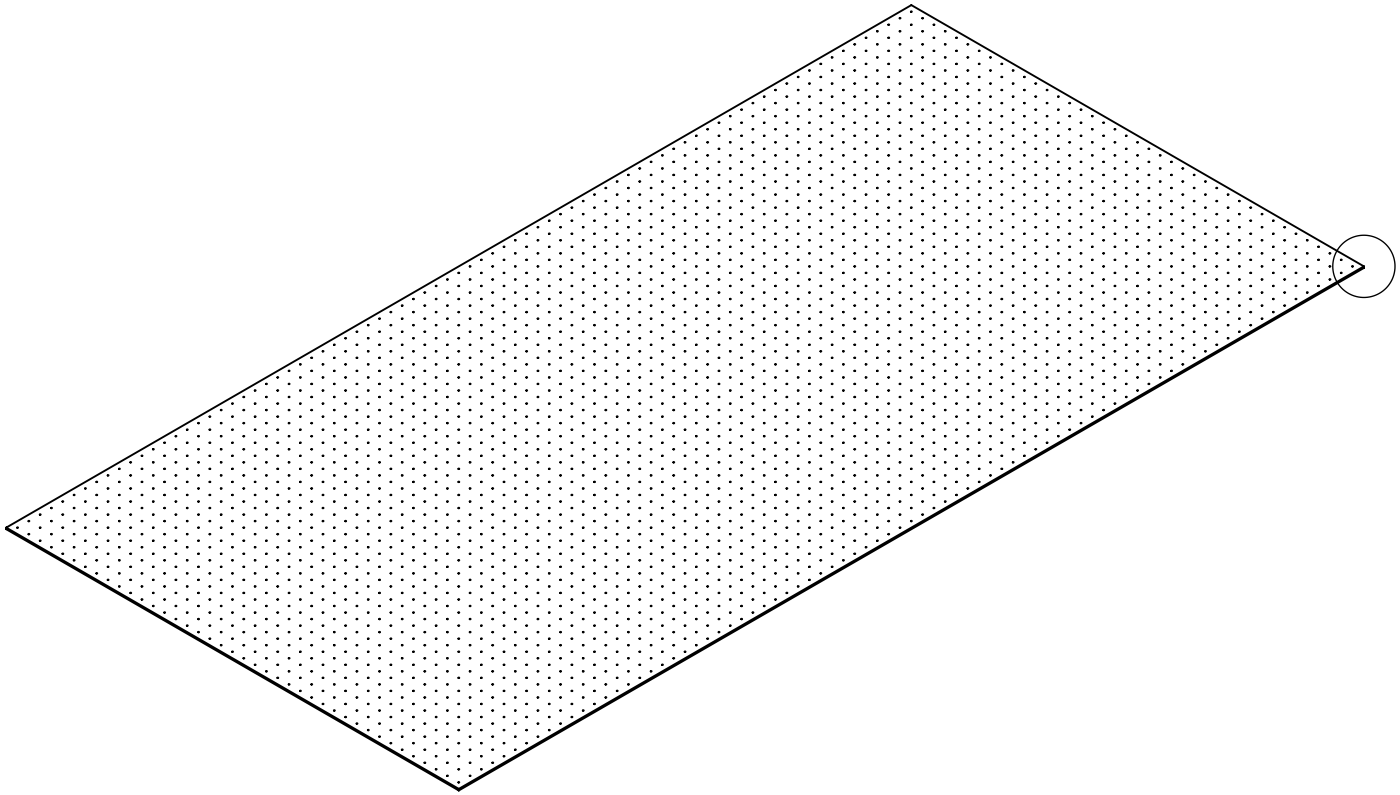
LINEAR [in]		ANGULAR [degrees]	
X.X:	±1	X:	±3
X.XX:	±.1	X.X:	±.5
X.XXX:	±.05	X.XX:	±.1

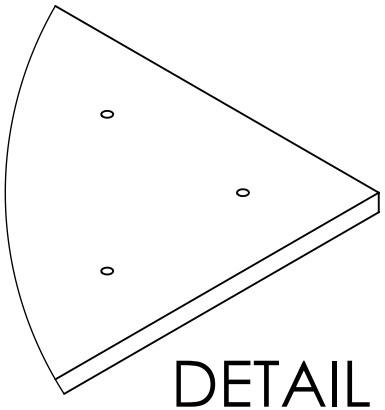
PART LOCATION:

SHEET SCALE: 1:12 **SHEET NUMBER:** 2 of 2

QTY: 1, TYPE: MELAMINE

HOLE PATTERN IS 1"x1" REPEATING
1/16" HOLES. PATTERN STARTS AT x=0.5",
y=0.5" AND FILLS ENTIRE SHEET





DETAIL A

SCALE 1 : 1

UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

TEAM:	**PART NAME:** PERF TOP
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH: As machined**
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

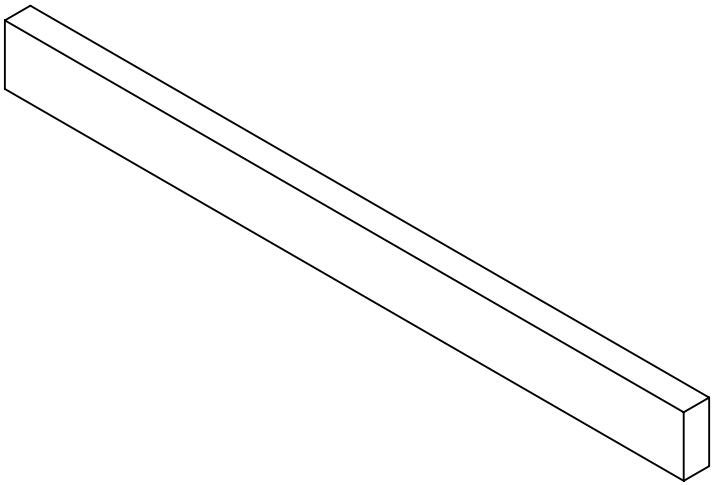
STANDARD DIMENSIONAL TOLERANCES:

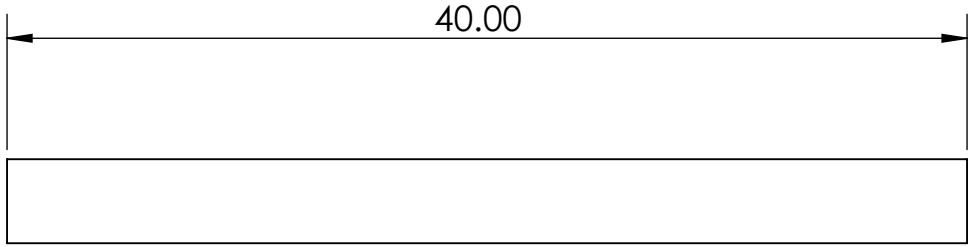
LINEAR [in]		ANGULAR [degrees]	
X.X:	**±1**	**X:**	**±3**
X.XX:	**±.1**	**X.X:**	**±.5**
X.XXX:	**±.05**	**X.XX:**	**±.1**

PART LOCATION:

SHEET SCALE: 1:12 **SHEET NUMBER: 1 of 1**

QTY: 4, TYPE: 2x4





Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

TEAM:	**PART NAME:** BottomSupport
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

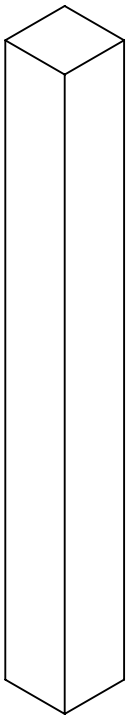
STANDARD DIMENSIONAL TOLERANCES:

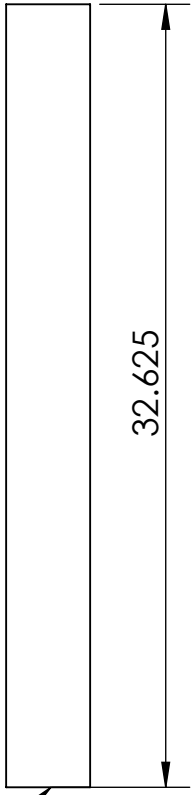
LINEAR [in]		ANGULAR [degrees]	
X.X:	±1	**X:**	±3
X.XX:	±.1	**X.X:**	±.5
X.XXX:	±.05	**X.XX:**	±.1

PART LOCATION:

SHEET SCALE: 1:8 **SHEET NUMBER:** 1 of 1

QTY: 4, TYPE: 4x4





MUST BUY FEET, PREFERABLY LEVELING ONES

UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

TEAM:	**PART NAME:** LEG
PART NUMBER:	**Rev:**
MATERIAL: Anything Nice	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

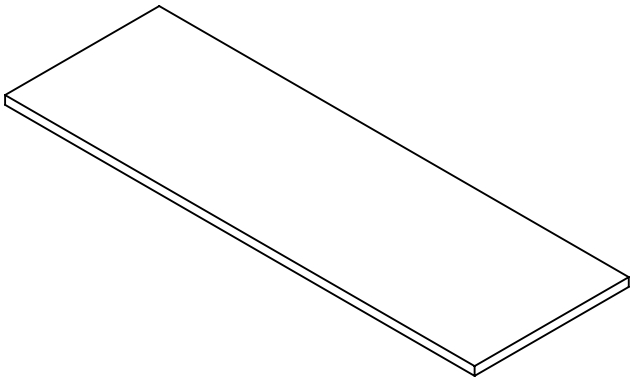
STANDARD DIMENSIONAL TOLERANCES:

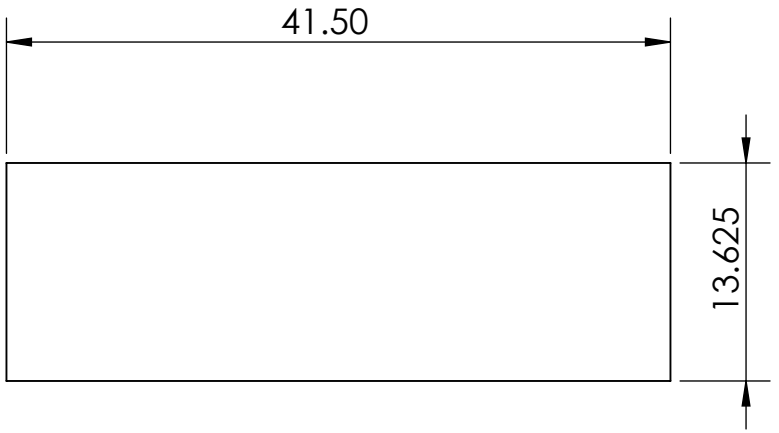
LINEAR [in]		ANGULAR [degrees]	
X.X:	**±1**	**X:**	**±3**
X.XX:	**±.1**	**X.X:**	**±.5**
X.XXX:	**±.05**	**X.XX:**	**±.1**

PART LOCATION:

SHEET SCALE: 1:8 **SHEET NUMBER: 1 of 1**

QTY: 1, TYPE: PLY





UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

TEAM:	**PART NAME:** BOTTOM DUCT
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

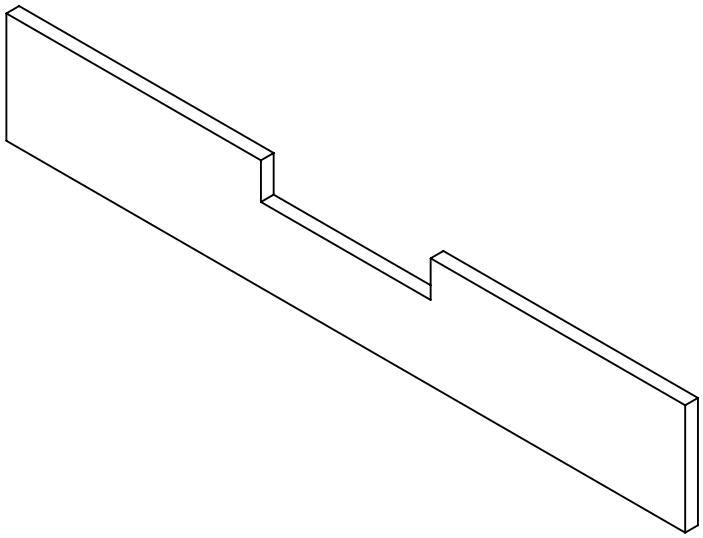
STANDARD DIMENSIONAL TOLERANCES:

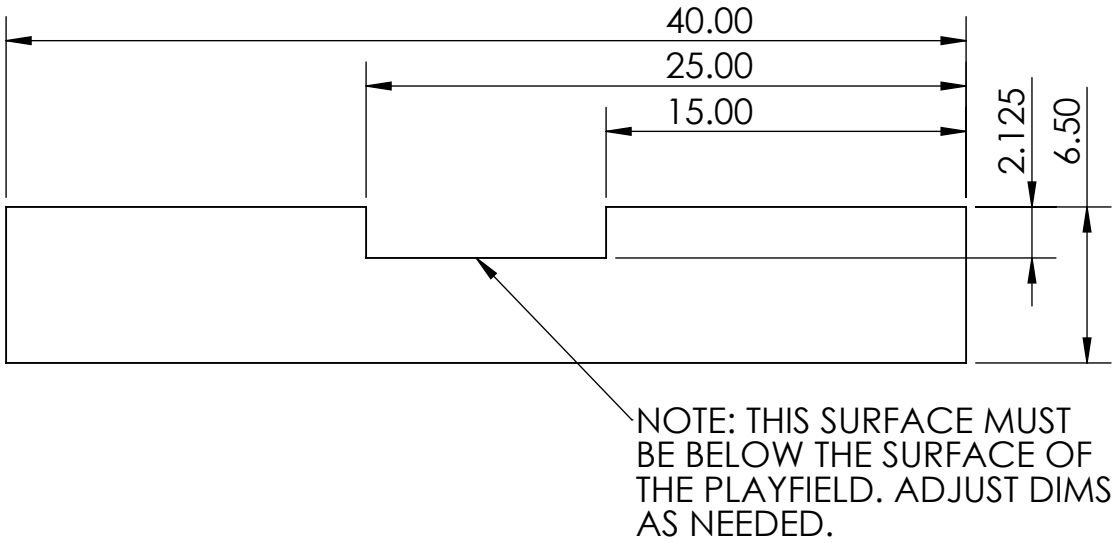
LINEAR [in]		ANGULAR [degrees]	
X.X:	**±1**	**X:**	**±3**
X.XX:	**±.1**	**X.X:**	**±.5**
X.XXX:	**±.05**	**X.XX:**	**±.1**

PART LOCATION:

SHEET SCALE: 1:12 **SHEET NUMBER: 1 of 1**

QTY: 2, TYPE: PLY





UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

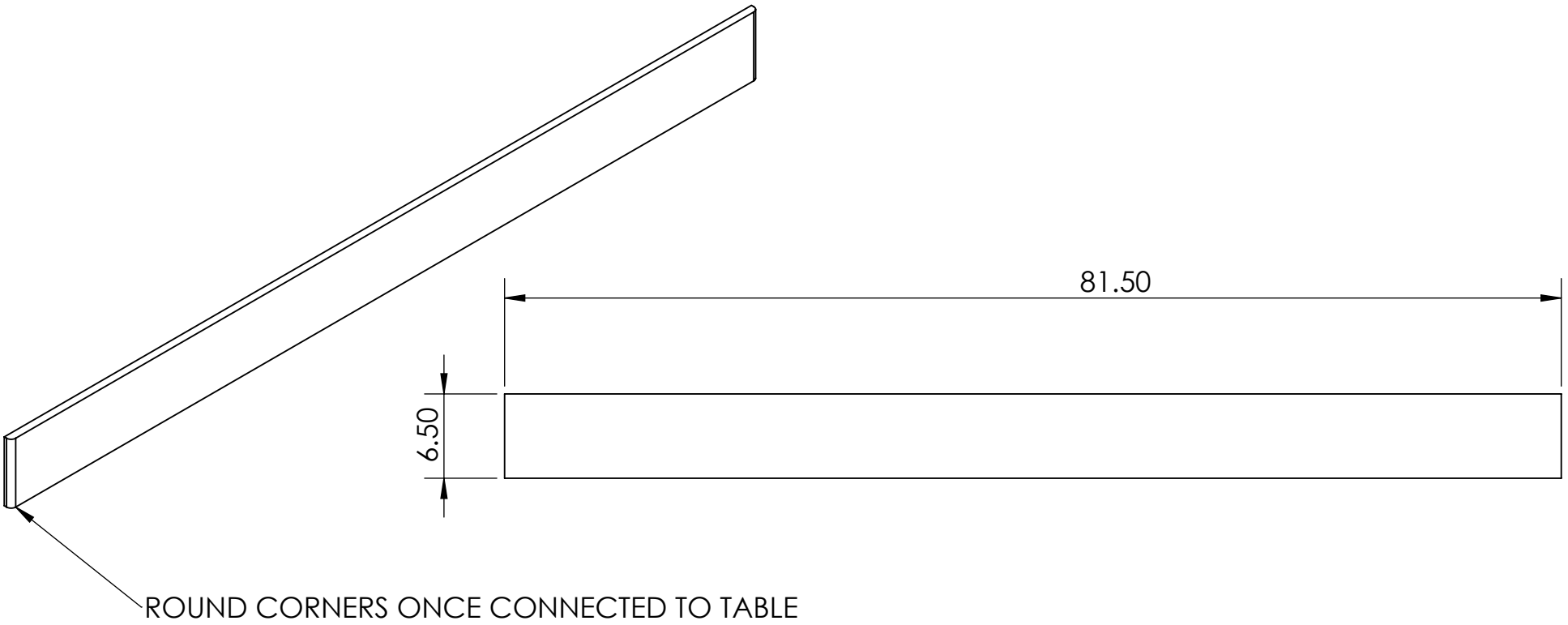
STANDARD DIMENSIONAL TOLERANCES:

LINEAR [in]		ANGULAR [degrees]	
X.X:	±1	X:	±3
X.XX:	±.1	X.X:	±.5
X.XXX:	±.05	X.XX:	±.1

TEAM:	**PART NAME:** FB-SIDE
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	
PART LOCATION:	

SHEET SCALE: 1:8 **SHEET NUMBER:** 1 of 1

QTY: 2, TYPE: PLY



UF Herbert Wertheim College of Engineering
Department of Mechanical & Aerospace Engineering
UNIVERSITY of FLORIDA

Honors Thesis Project

TEAM:	**PART NAME:** SS-SIDE
PART NUMBER:	**Rev:**
MATERIAL: Beech	**FINISH:** As machined
DESIGN ENGINEER:	
DESIGN APPROVAL:	
MANUFACTURING APPROVAL:	

STANDARD DIMENSIONAL TOLERANCES:

LINEAR [in]		ANGULAR [degrees]	
X.X:	**±1**	**X:**	**±3**
X.XX:	**±.1**	**X.X:**	**±.5**
X.XXX:	**±.05**	**X.XX:**	**±.1**

PART LOCATION:

SHEET SCALE: 1:12 **SHEET NUMBER: 1 of 1**