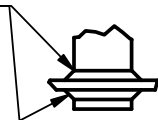

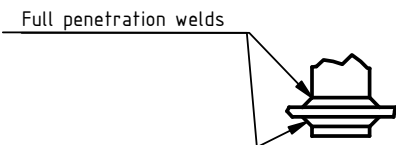
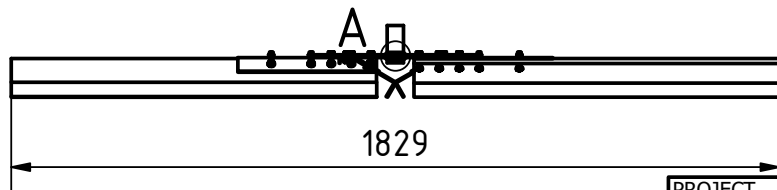
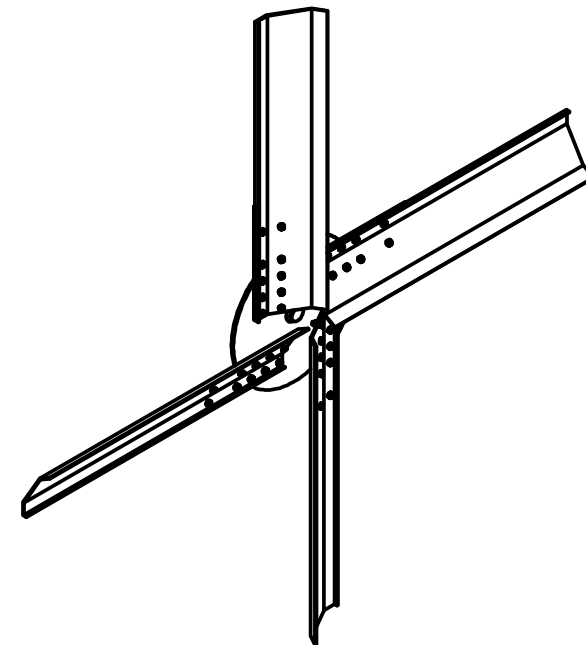
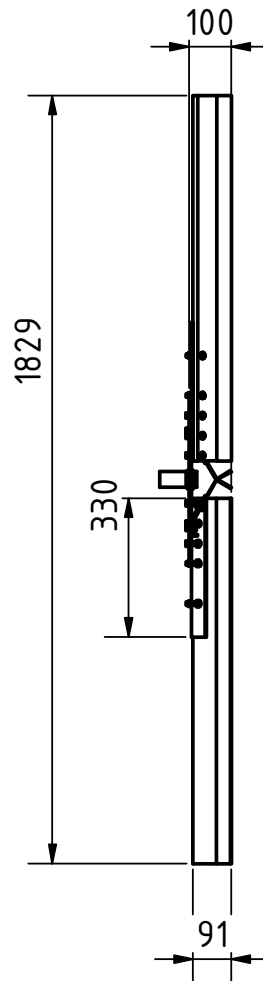
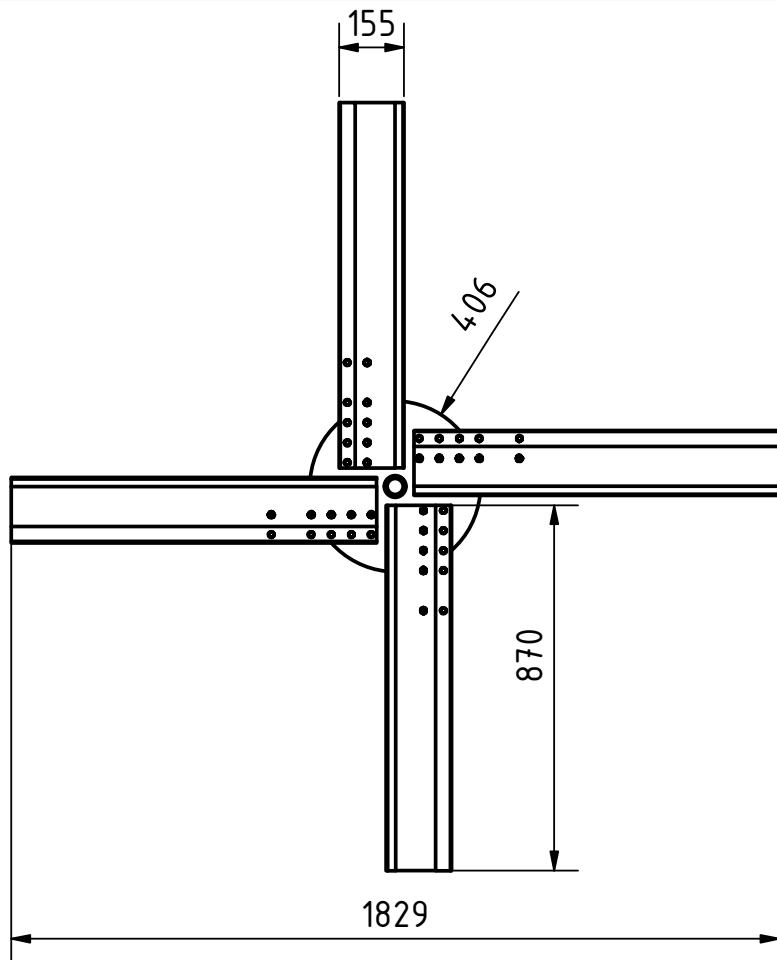


Full penetration welds



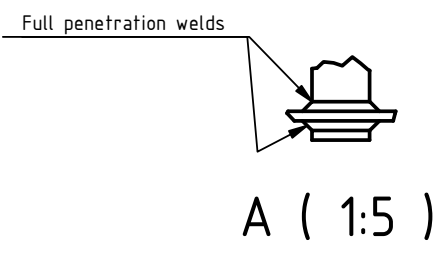
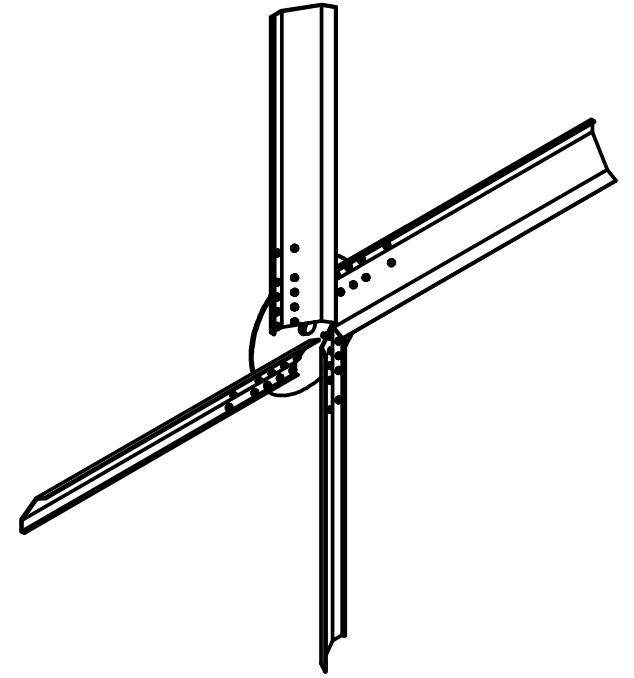
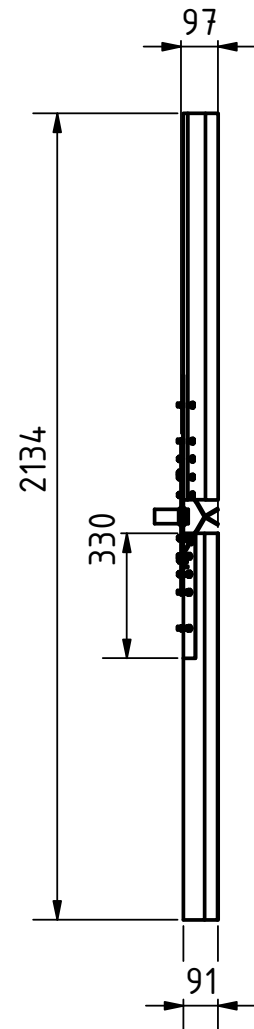
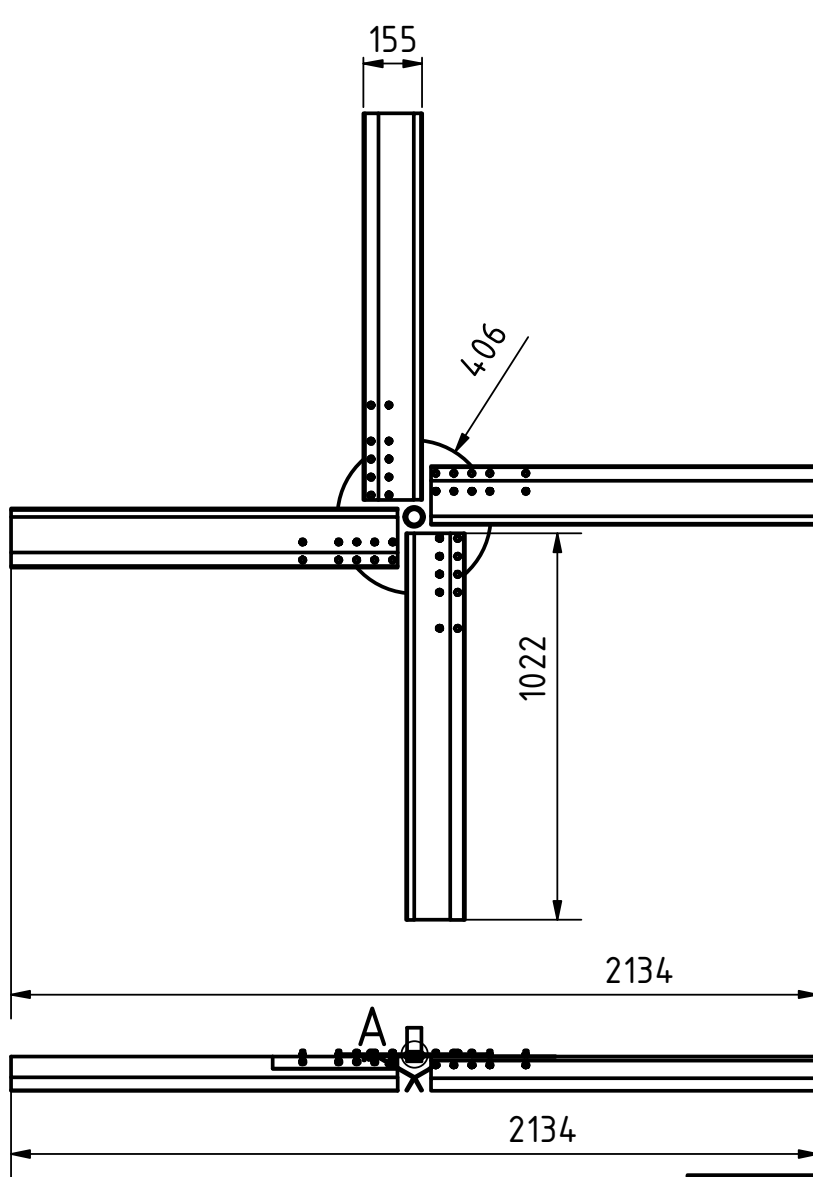
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PROJECT		CREATED BY		APPROVED BY		DATE		VERSION		
60-120 Dia Wind Mill Blades		E. CEBALLOS		A. MORILLO		04-06-21		1.0		
PART NAME		FILE NAME								PART CODE
60" D. Wind Mill Blades		wind mill blades.iam								A1
DEVELOPED BY		REDESIGNED BY		SUPPORTED BY		DOC. TYPE	MATERIAL		QUANTITY	
Unknown		 OPEN SOURCE ECOLOGY GERMANY				ASSEMBLY			1	
						LICENCE		SCALE	SHEET	
						CC-BY-SA 4.0		1:15	1 / 29	

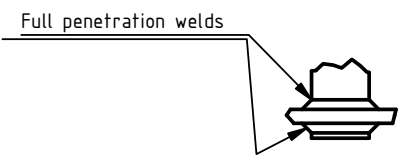
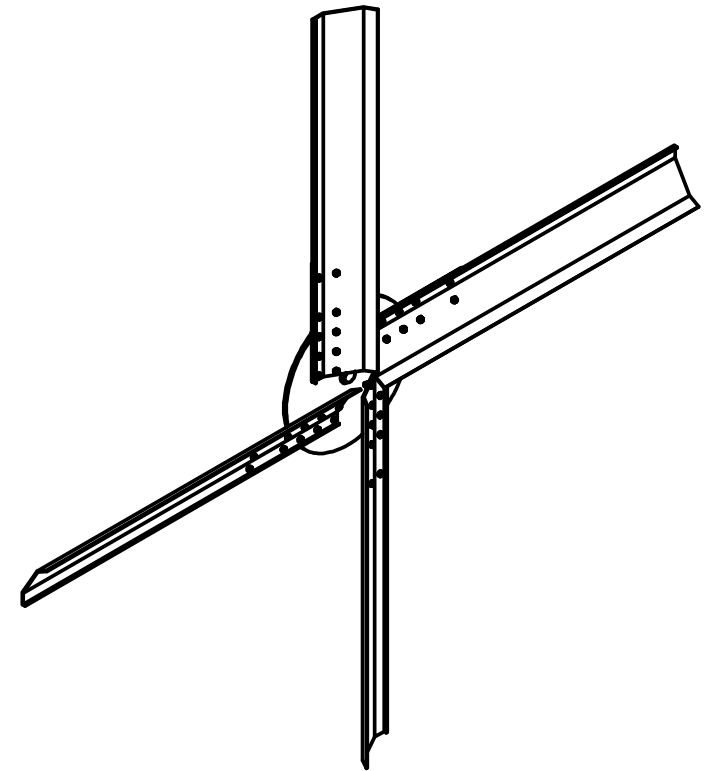
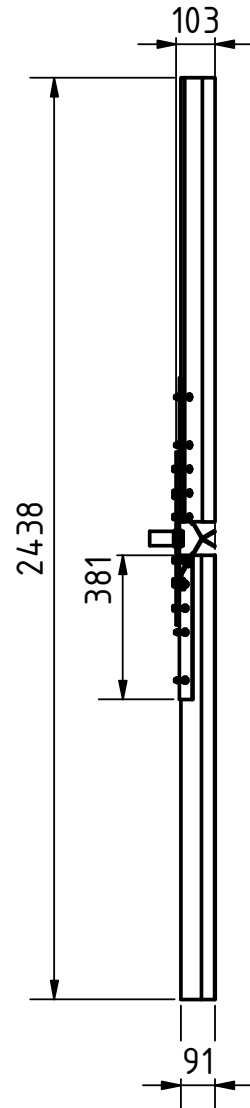
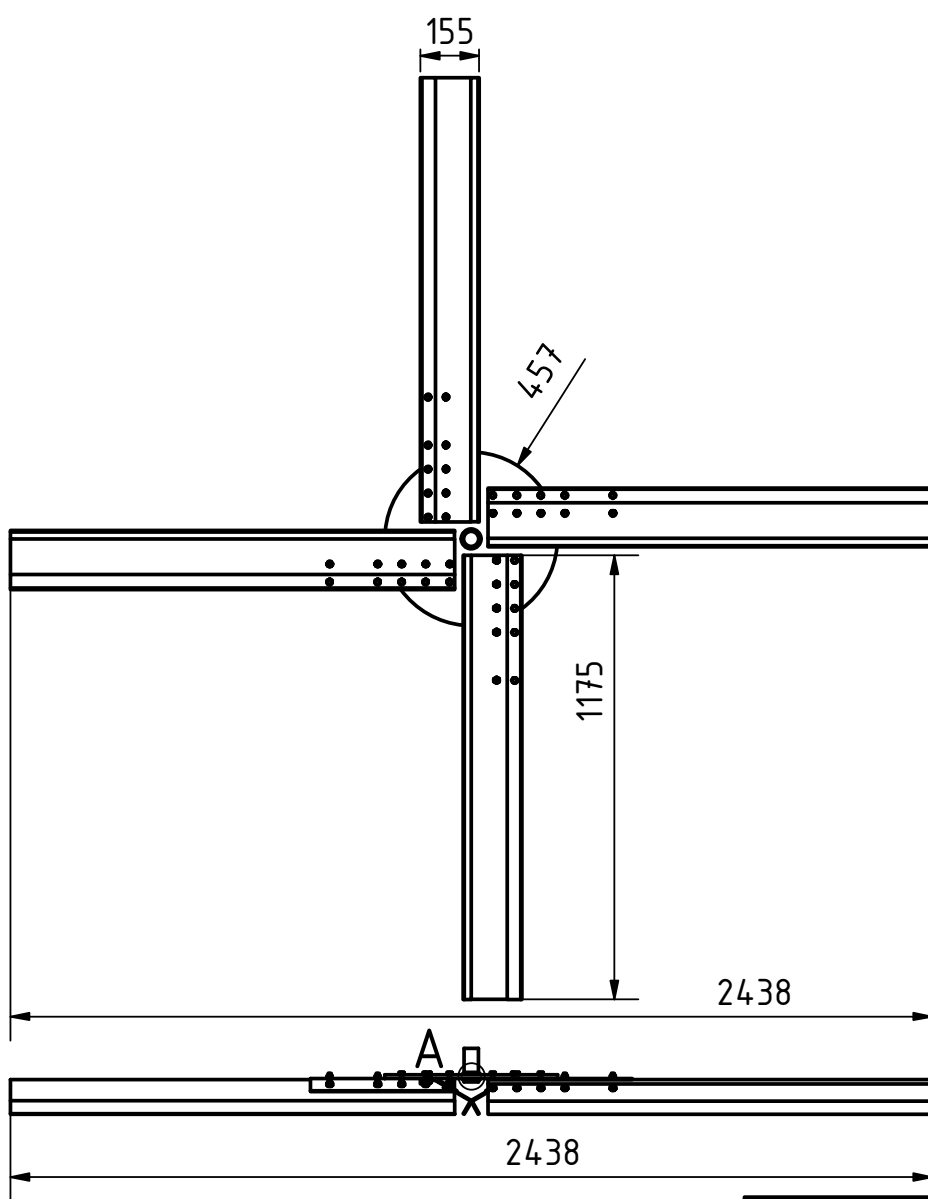


A (1:5)

PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
72" D. Wind Mill Blades		wind mill blades.iam			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
			ASSEMBLY		1
Unknown	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:20	2 / 29

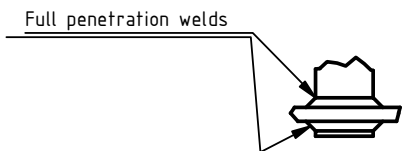
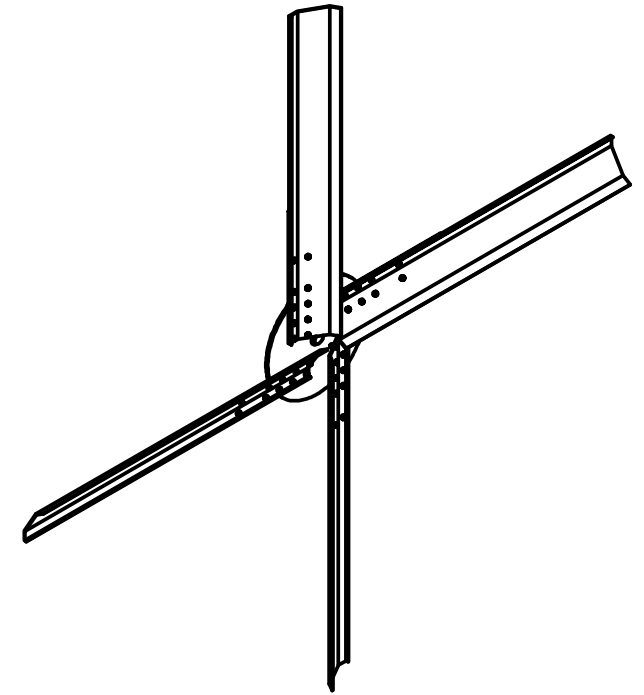
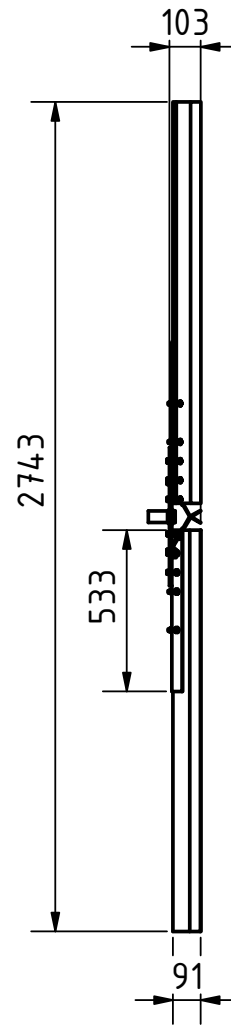
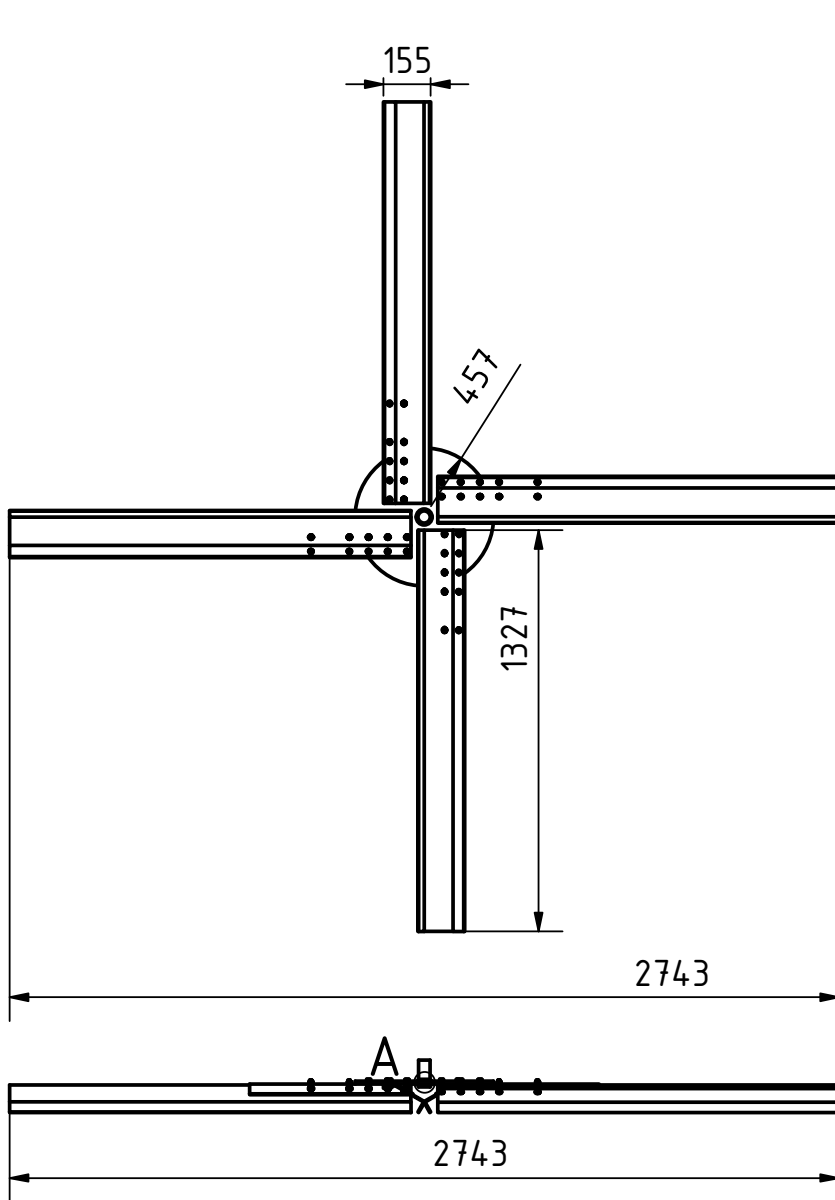


PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
84" D. Wind Mill Blades		wind mill blades.iam			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 <small>OPEN SOURCE ECOLOGY GERMANY</small>		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:20	3 / 29



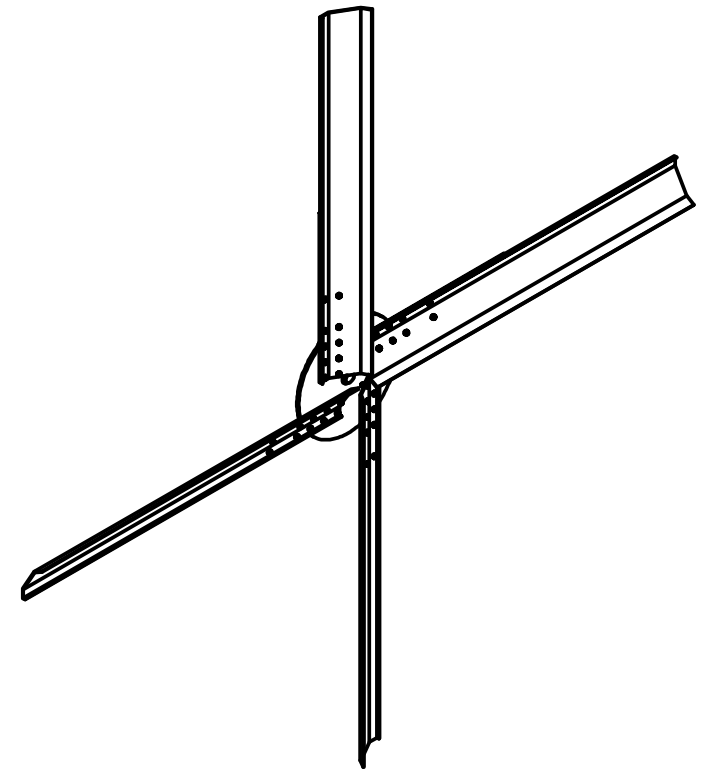
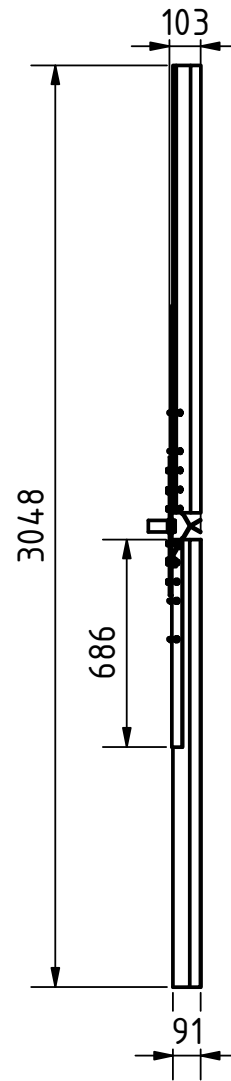
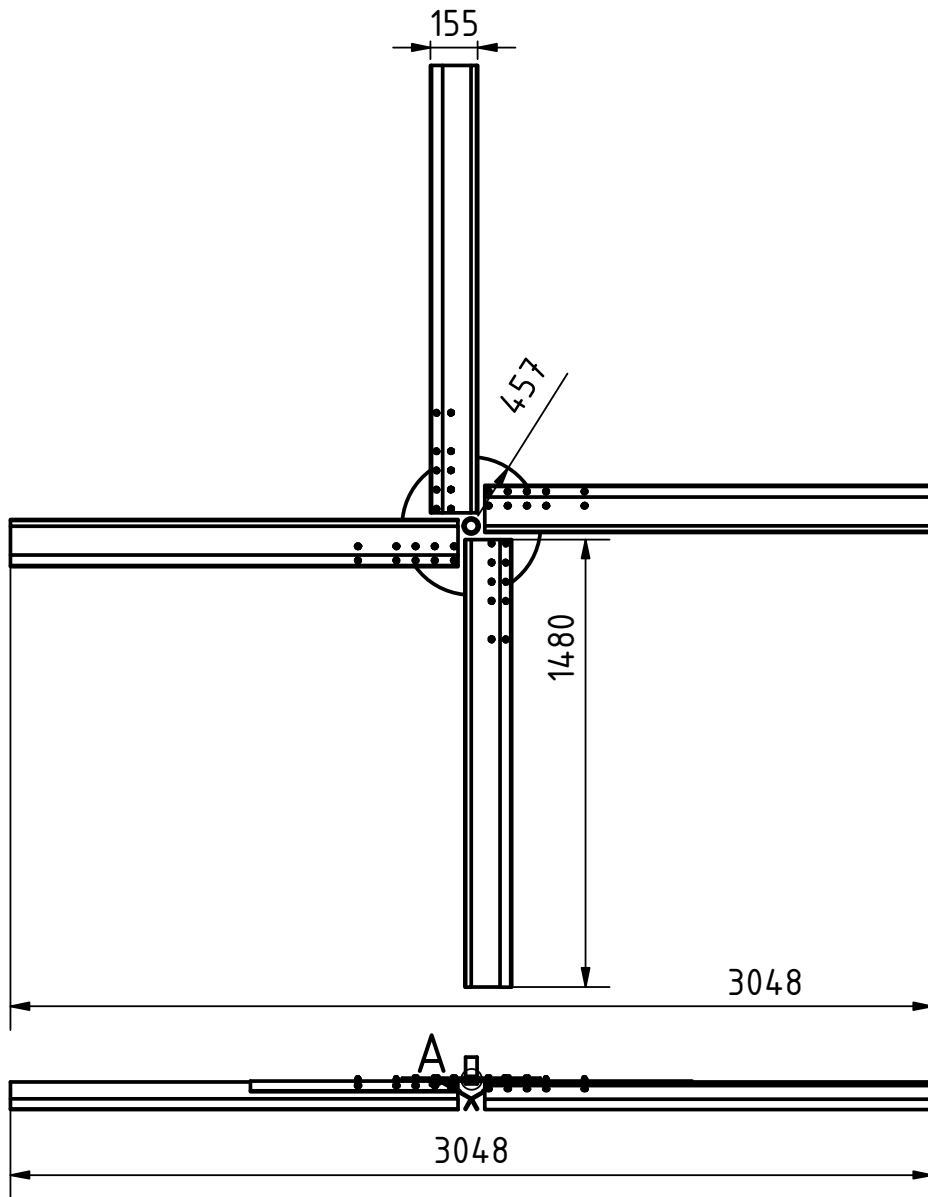
A (1:5)

PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
96" D. Wind Mill Blades		wind mill blades.iam			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 <small>OPEN SOURCE ECOLOGY GERMANY</small>		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:20	4 / 29

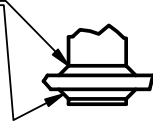


A (1:5)


PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
108" D. Wind Mill Blades		wind mill blades.iam			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 <small>OPEN SOURCE ECOLOGY GERMANY</small>		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:25	5 / 29

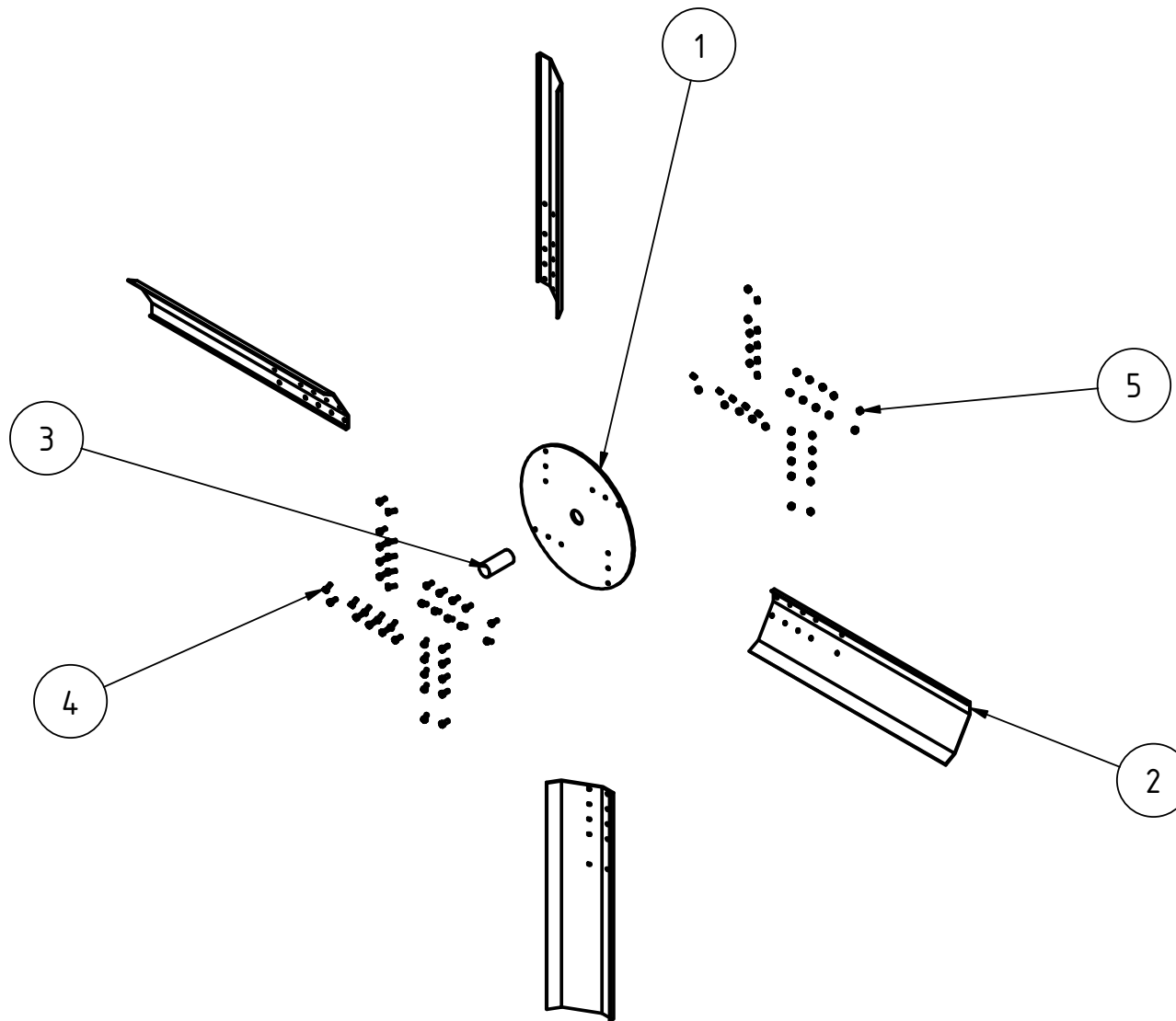



Full penetration welds

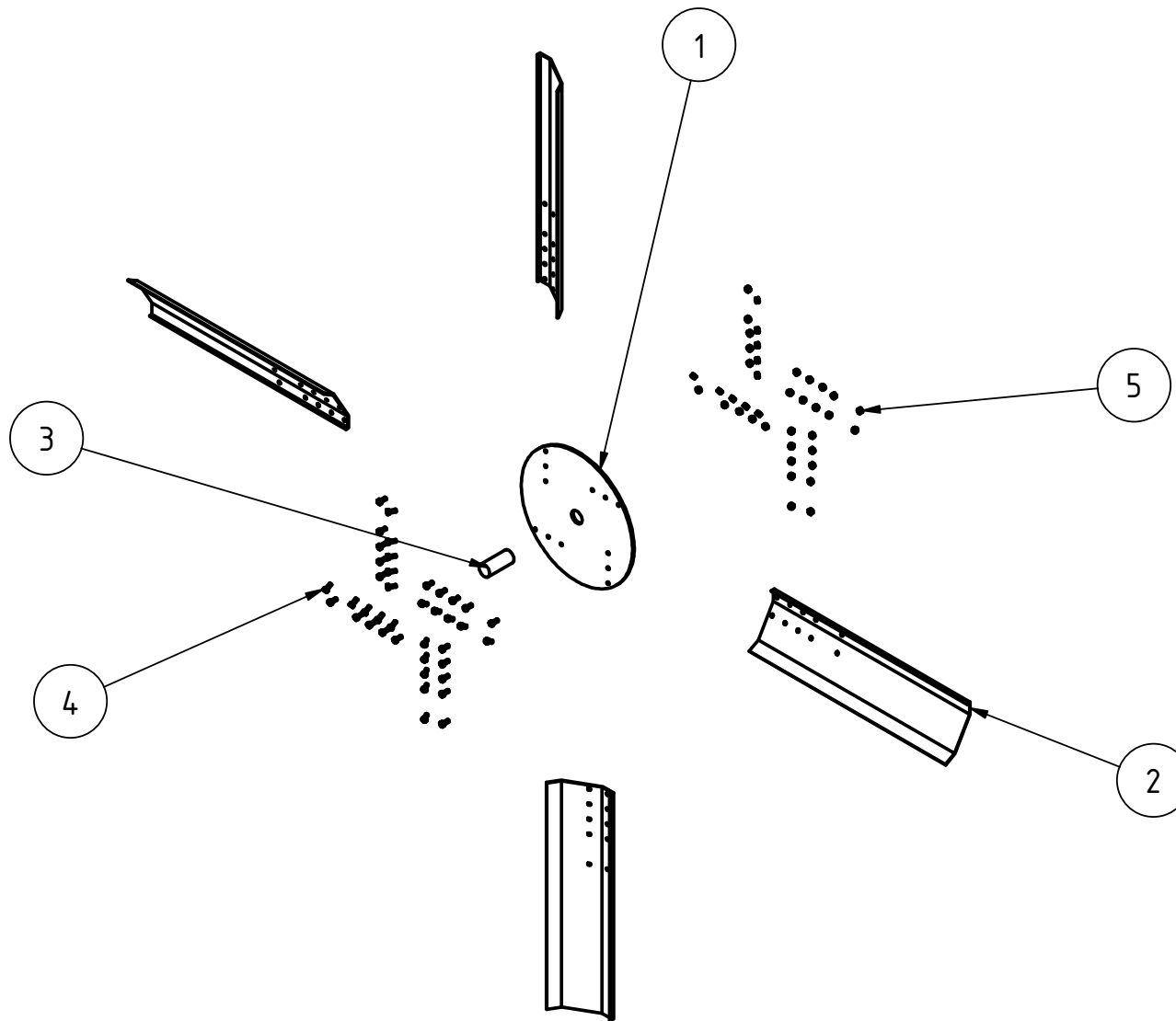



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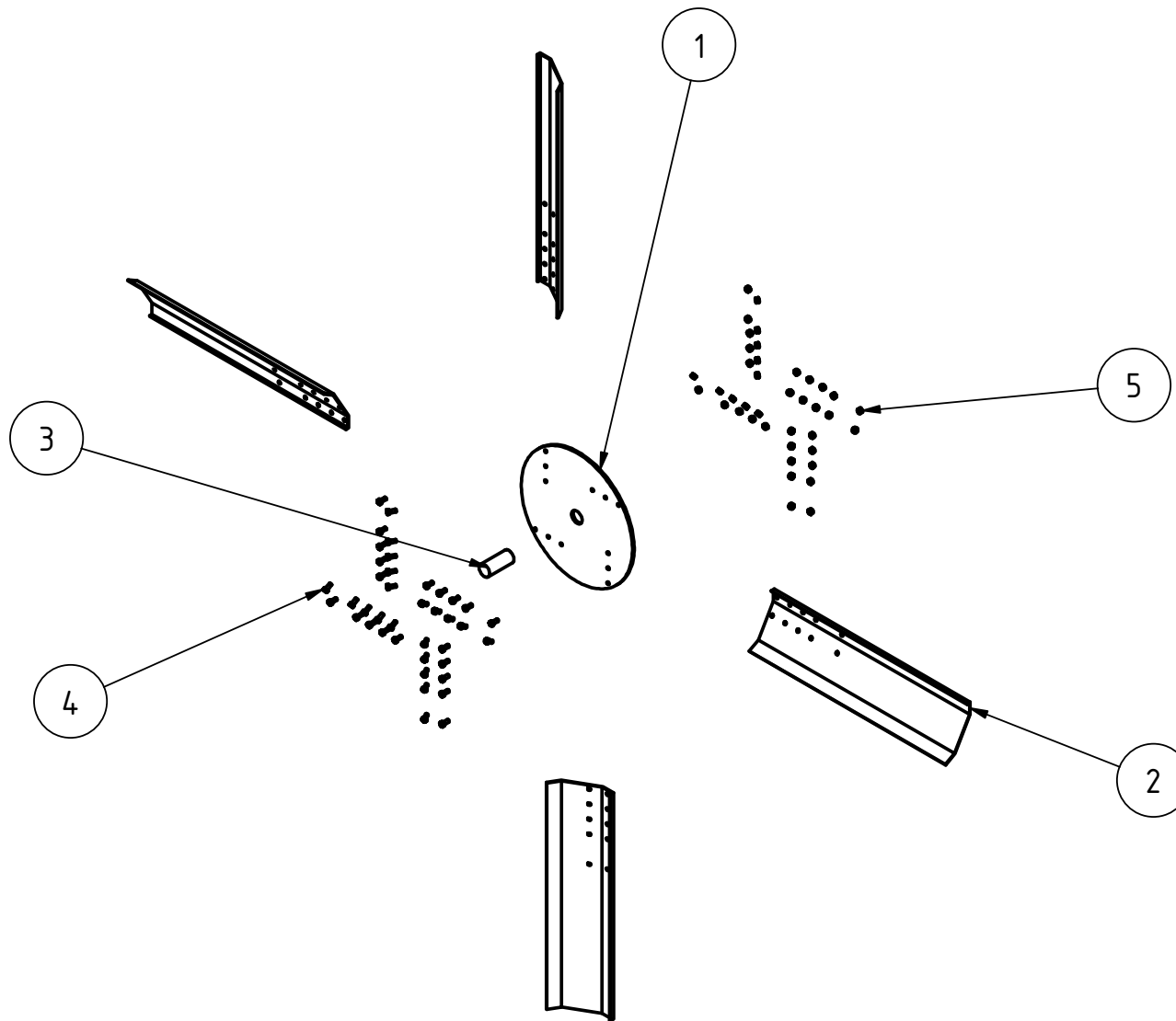
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60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
120" D. Wind Mill Blades		wind mill blades.iam			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY OSEG		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:25	6 / 29




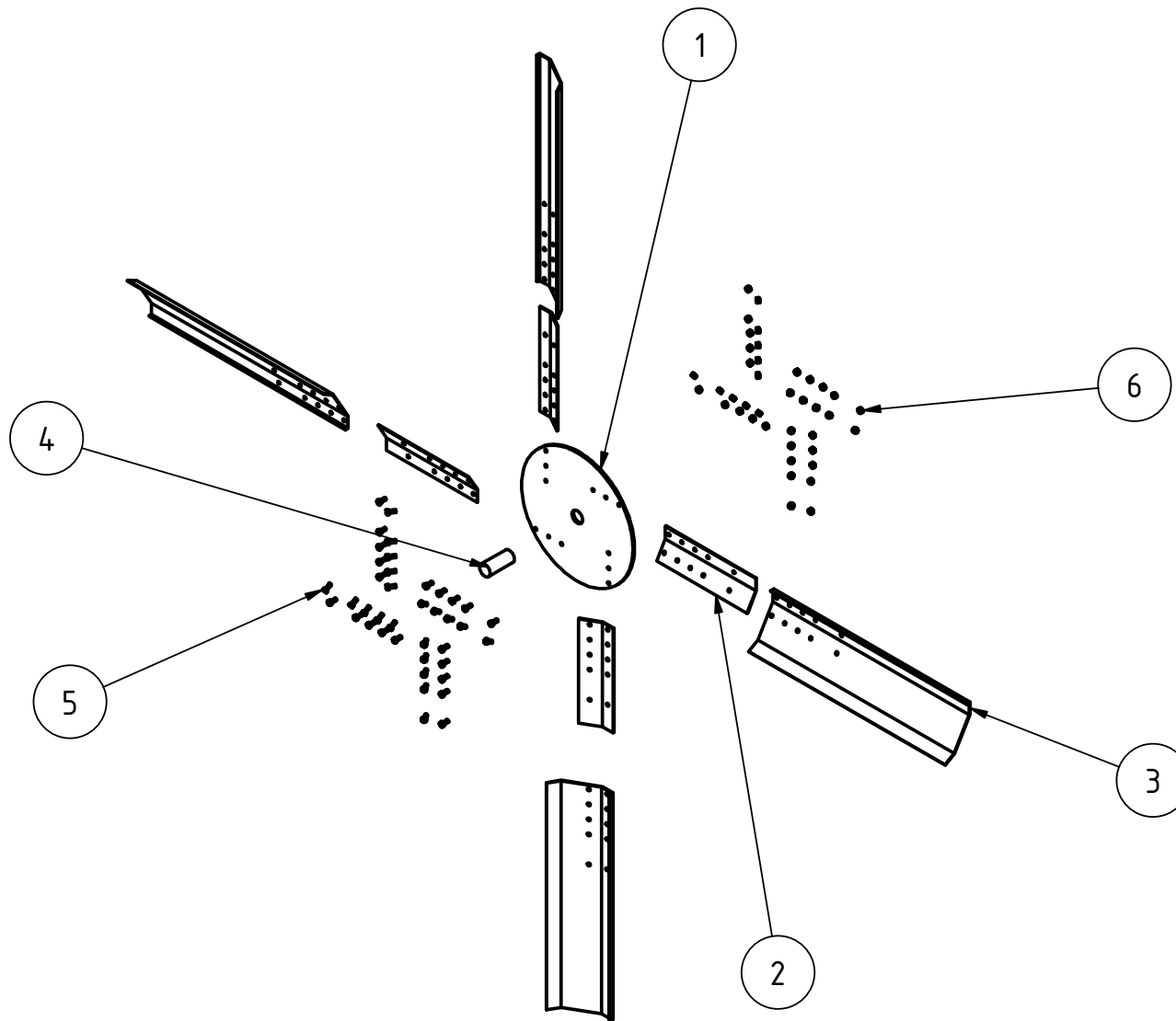
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
60" D. Wind mill blades		wind mill blades-hub1.ipn			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:18	7 / 29




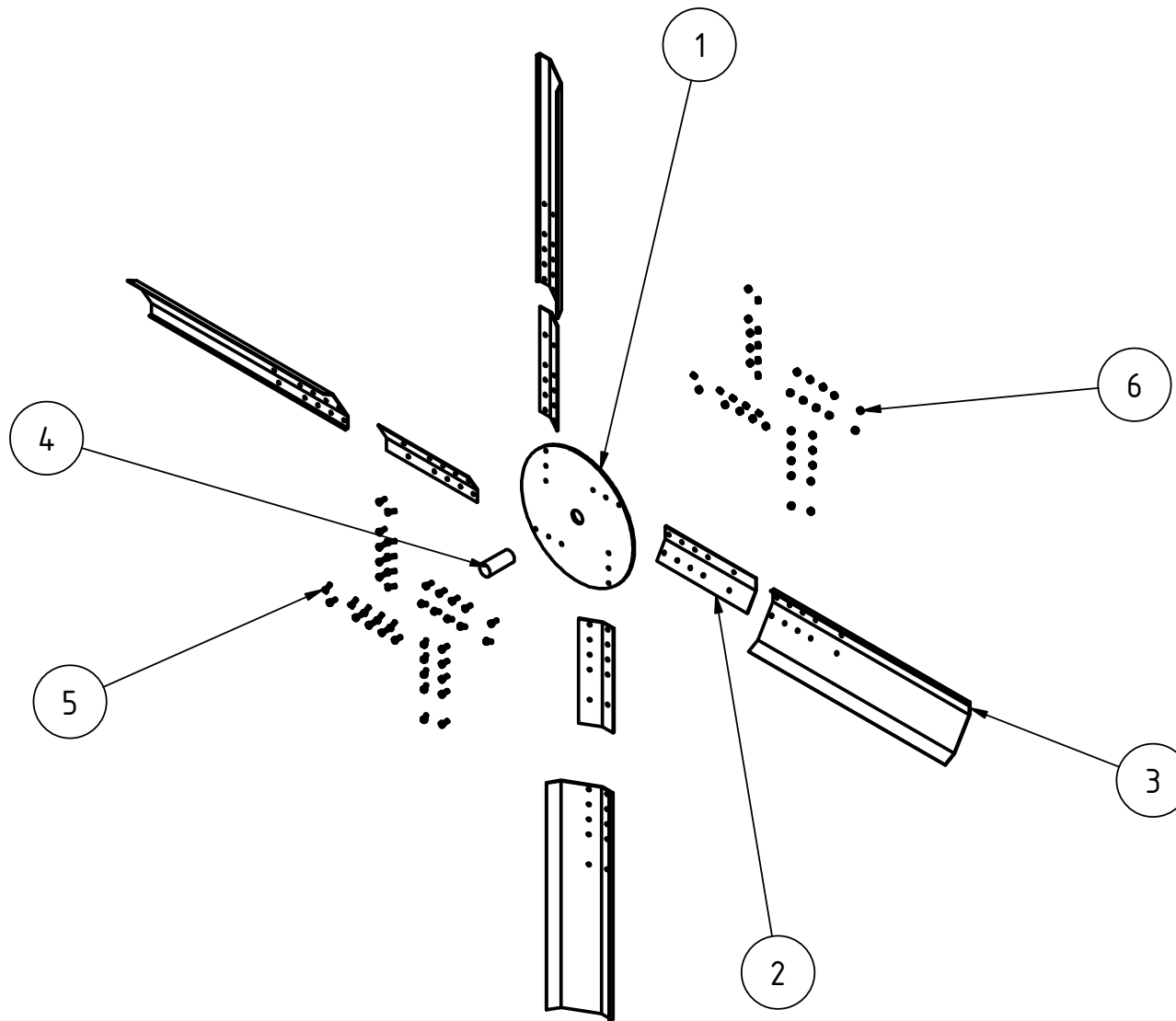
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
72" D. Wind mill blades		wind mill blades-hub1.ipn			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:18	8 / 29




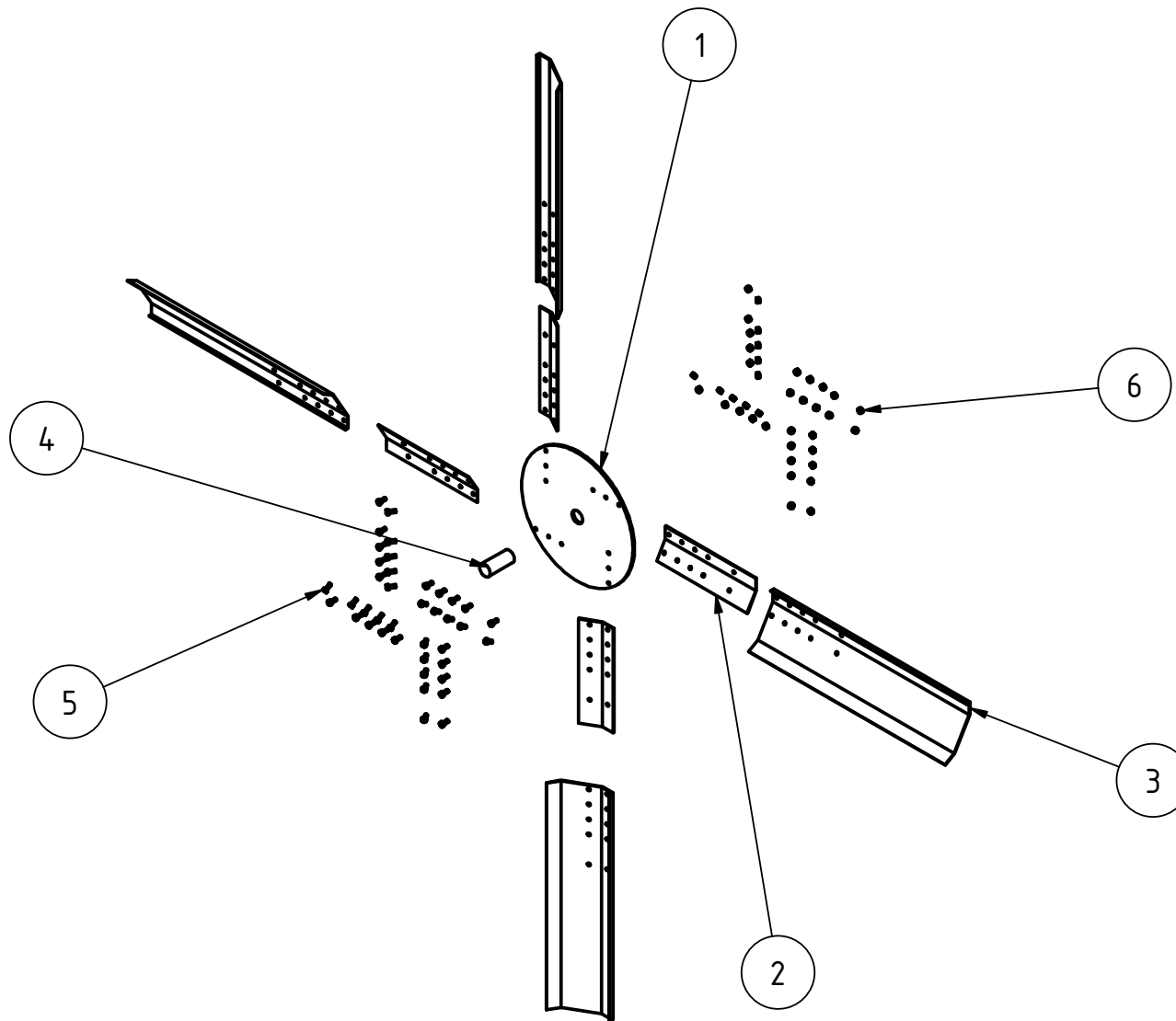
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
84" D. Wind mill blades		wind mill blades-hub1.ipn			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
	 OPEN SOURCE ECOLOGY GERMANY		ASSEMBLY		1
Unknown	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:18	9 / 29




PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
96" D. Wind mill blades		wind mill blades-hub1.ipn			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
	 OPEN SOURCE ECOLOGY GERMANY		ASSEMBLY		1
Unknown	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:18	10 / 29



PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
108" D. Wind mill blades		wind mill blades-hub1.ipn			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:18	11 / 29




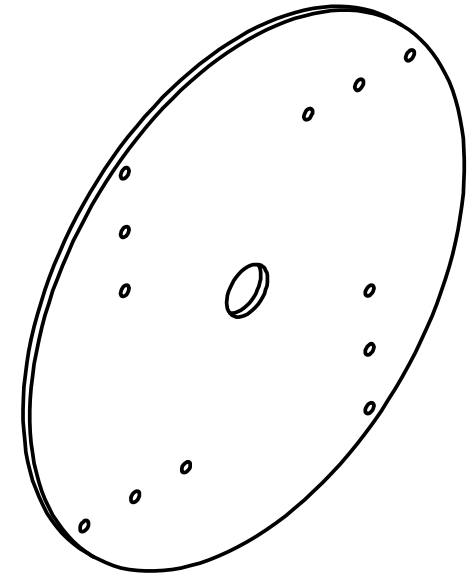
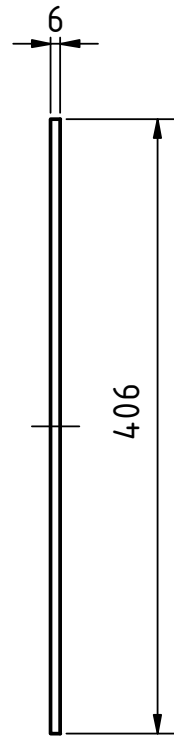
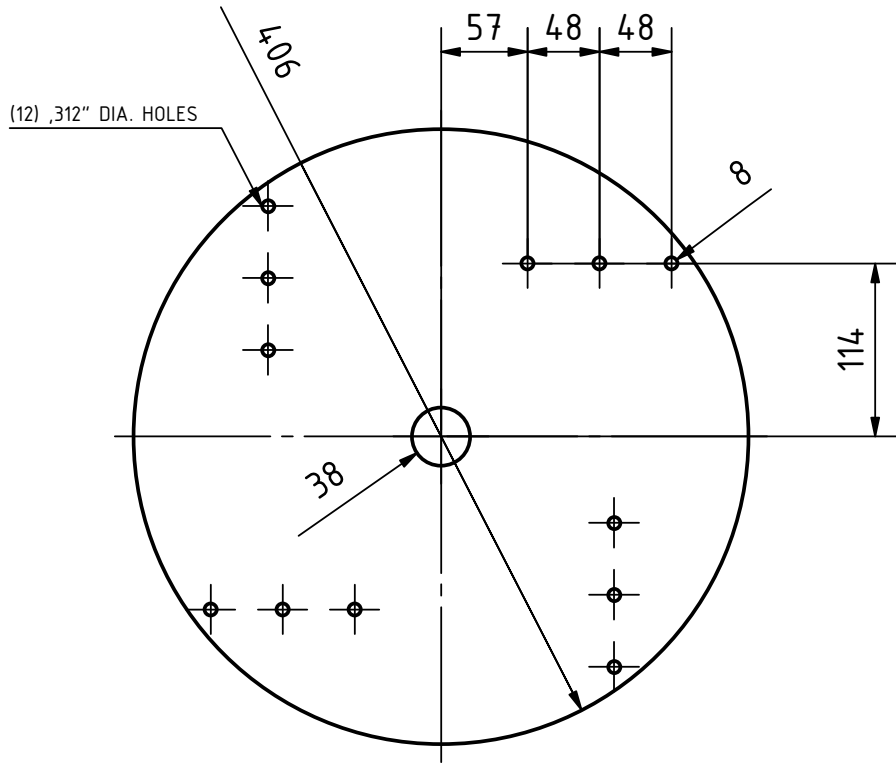
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
120" D. Wind mill blades		wind mill blades-hub1.ipn			A1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		ASSEMBLY		1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:18	12 / 29


PART LIST							
POS	POS.OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1_1			3D views	Windmill.iam			1
A1_2			3D views	Windmill.iam			2
A1_3			3D views	Windmill.iam			3
A1_4			3D views	Windmill.iam			4
A1_5			3D views	Windmill.iam			5
A1_6			3D views	Windmill.iam			6
A2_1			Exploded 3D view	Windmill.ipn			7
A2_2			Exploded 3D view	Windmill.ipn			8
A2_3			Exploded 3D view	Windmill.ipn			9
A2_4			Exploded 3D view	Windmill.ipn			10
A2_5			Exploded 3D view	Windmill.ipn			11
A2_6			Exploded 3D view	Windmill.ipn			12
B			Part list	part list.csv			13-14
1.1		1	Hub-60	hub.ipt	Production	Steel,ASTM 1045 / DIN C45	15
1.2		4	Blade-60	blade.ipt	Production	Aluminum,6063-T5	16
1.3		1	shaft	shaft.ipt	Standard	Steel,ASTM 1045 / DINC45	
1.4		40	screws		Standard	AS2465 - 5/16 x 3/4UNC	
1.5		40	nuts		Standard	AS2465 - 5/16UNC	
2.1		1	Hub-72	hub.ipt	Production	Steel,ASTM 1045 / DIN C45	17
2.2		4	Blade-72	blade.ipt	Production	Aluminum,6063-T5	18
2.3		1	shaft	shaft.ipt	Standard	Steel,ASTM 1045 / DINC45	
2.4		40	screws		Standard	AS2465 - 5/16 x 3/4UNC	
2.5		40	nuts		Standard	AS2465 - 5/16UNC	
3.1		1	Hub-84	hub.ipt	Production	Steel,ASTM 1045 / DIN C45	19
3.2		4	Blade-84	blade.ipt	Production	Aluminum,6063-T5	20
3.3		1	shaft	shaft.ipt	Standard	Steel,ASTM 1045 / DINC45	
3.4		40	screws		Standard	AS2465 - 5/16 x 3/4UNC	
3.5		40	nuts		Standard	AS2465 - 5/16UNC	
4.1		1	Hub-96	hub.ipt	Production	Steel,ASTM 1045 / DIN C45	21
4.2		4	Stiffener-96	stiffener.ipt	Production	Aluminum,6063-T5	22
4.3		4	Blade-96	blade.ipt	Production	Aluminum,6063-T5	23
4.4		1	shaft	shaft.ipt	Standard	Steel,ASTM 1045 / DINC45	

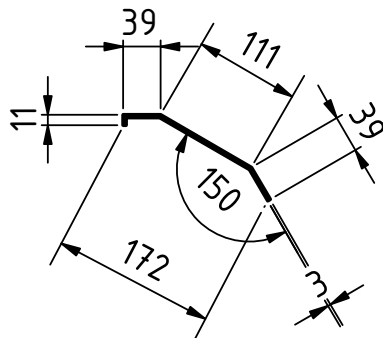
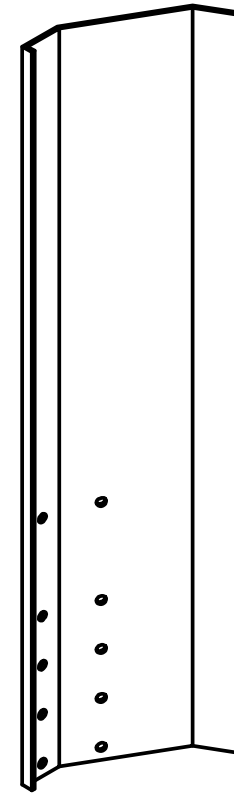
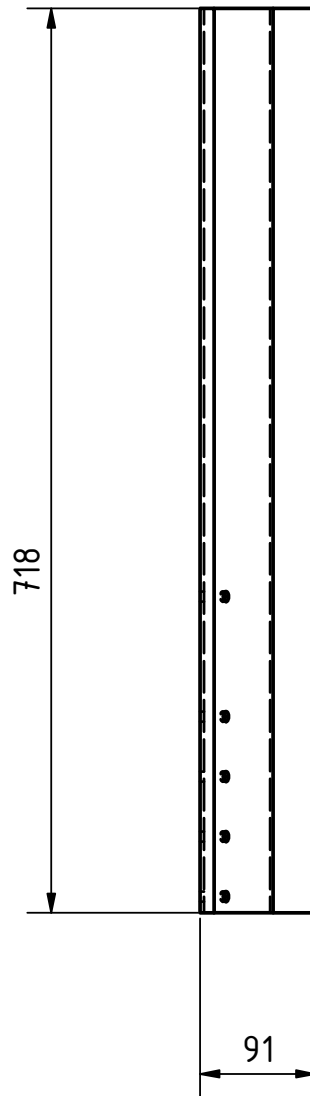
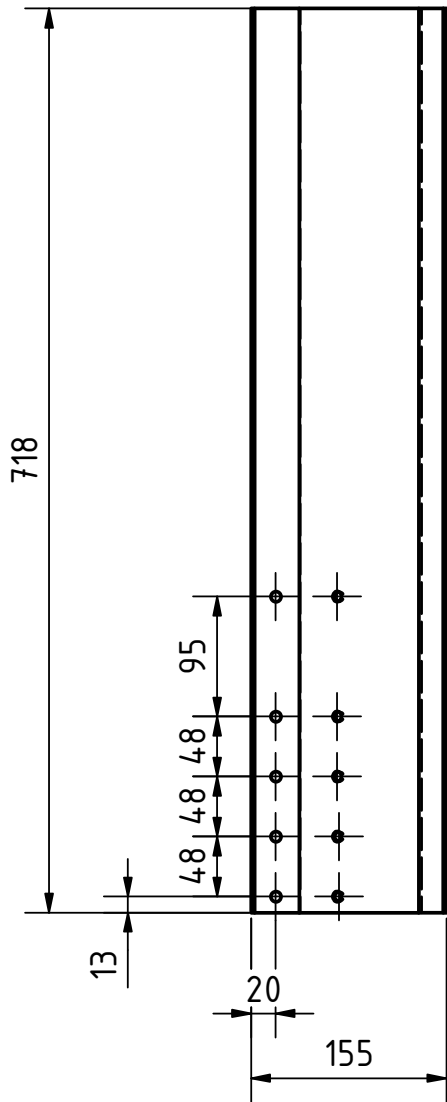
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
PART LIST		part list.csv			B1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OSEG		PART LIST		
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0		13 / 29


PART LIST							
POS	POS.OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
4.5		40	screws		Standard	AS2465 - 5/16 x 3/4UNC	
4.6		40	nuts		Standard	AS2465 - 5/16UNC	
5.1		1	Hub-108	hub.ipt	Production	Steel,ASTM 1045 / DIN C45	24
5.2		4	Stiffener-108	stiffener.ipt	Production	Aluminum,6063-T5	25
5.3		4	Blade-108	blade.ipt	Production	Aluminum,6063-T5	26
5.4		1	shaft	shaft.ipt	Standard	Steel,ASTM 1045 / DINC45	
5.5		40	screws		Standard	AS2465 - 5/16 x 3/4UNC	
5.6		40	nuts		Standard	AS2465 - 5/16UNC	
6.1		1	Hub-120	hub.ipt	Production	Steel,ASTM 1045 / DIN C45	27
6.2		4	Stiffener-120	stiffener.ipt	Production	Aluminum,6063-T5	28
6.3		4	Blade-120	blade.ipt	Production	Aluminum,6063-T5	29
6.4		1	shaft	shaft.ipt	Standard	Steel,ASTM 1045 / DINC45	
6.5		40	screws		Standard	AS2465 - 5/16 x 3/4UNC	
6.6		40	nuts		Standard	AS2465 - 5/16UNC	

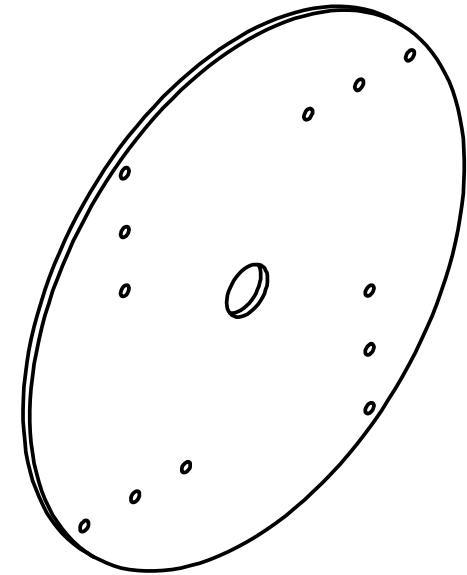
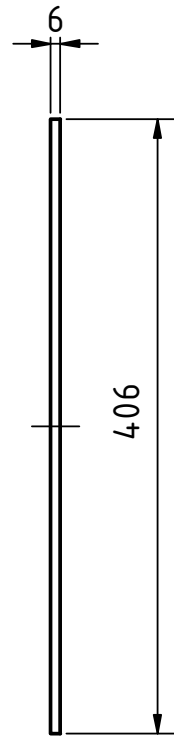
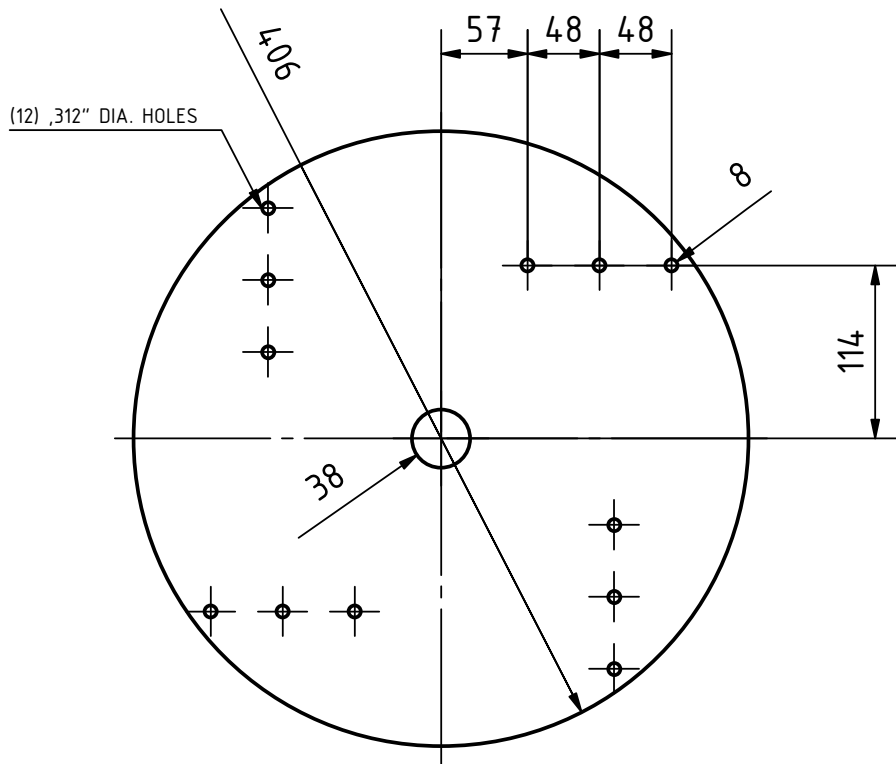
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
PART LIST		part list.csv			B2
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
			PART LIST		
	OPEN SOURCE ECOLOGY GERMANY		LICENCE	SCALE	SHEET
Unknown	OSEG		CC-BY-SA 4.0		14 / 29




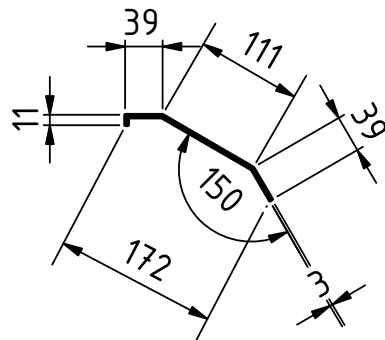
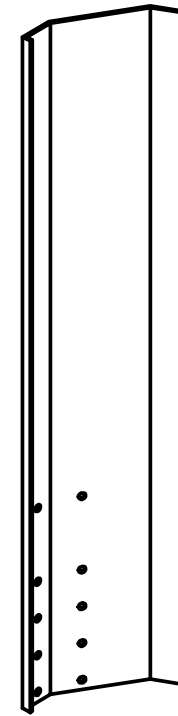
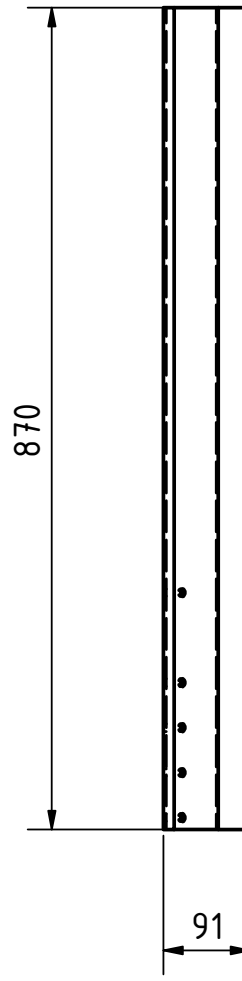
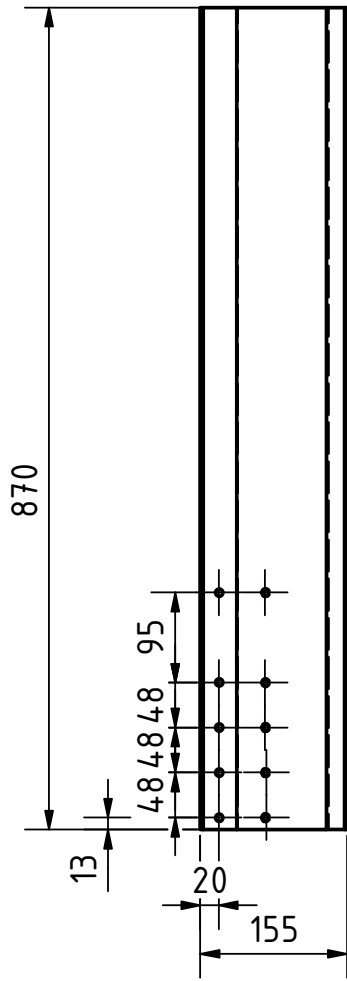
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
hub-60		hub.ipt			1.1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Steel, ASTM 1045 / DIN C45	1
	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	15 / 29




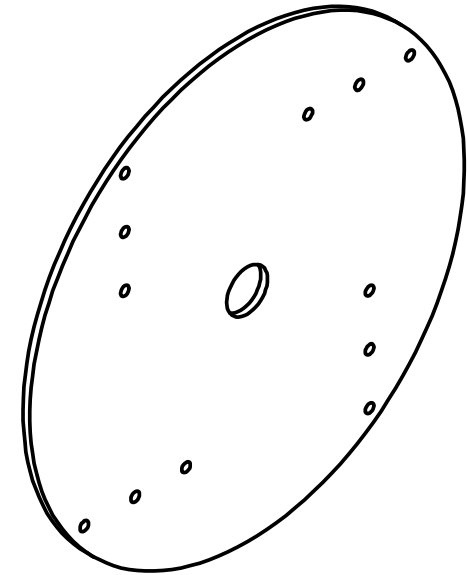
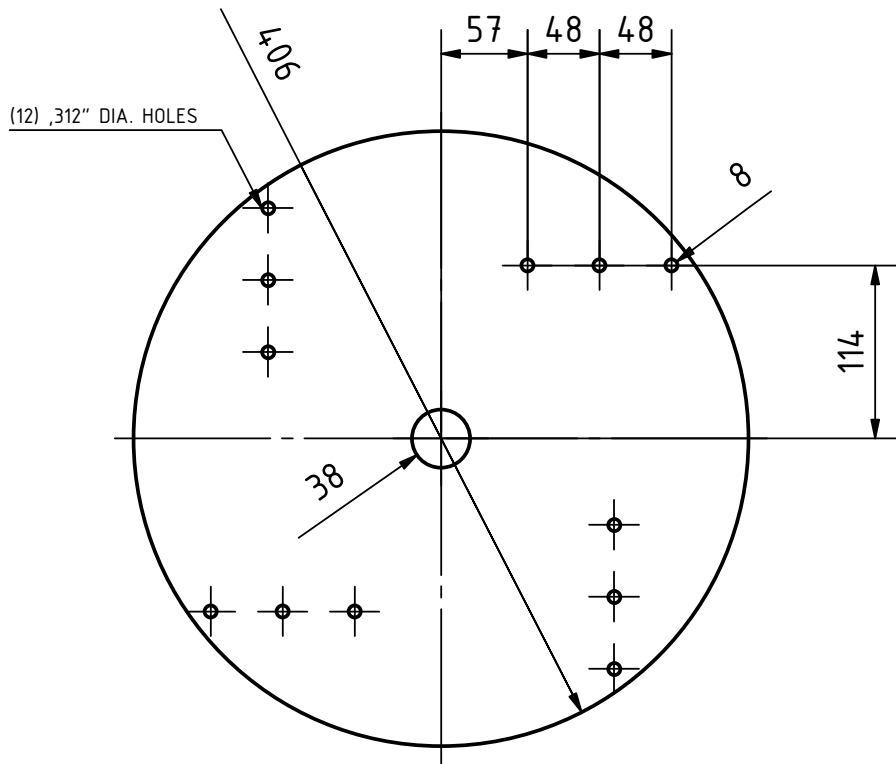
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
blade-60		blade.ipt			1.2
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Aluminun, 6063 - T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:6	16 / 29




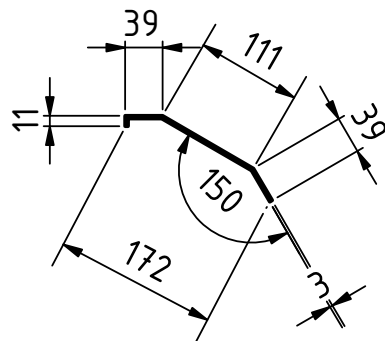
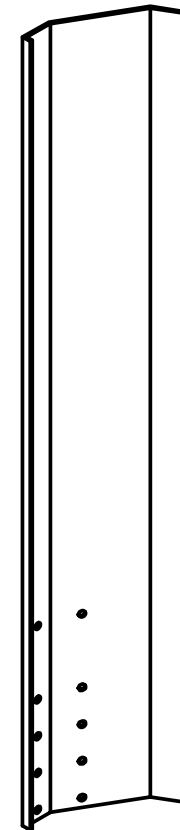
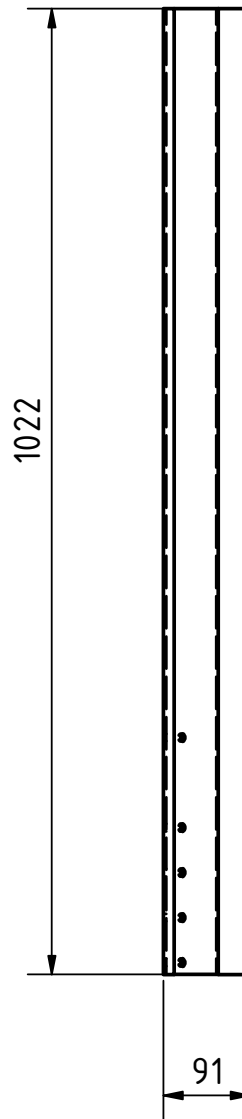
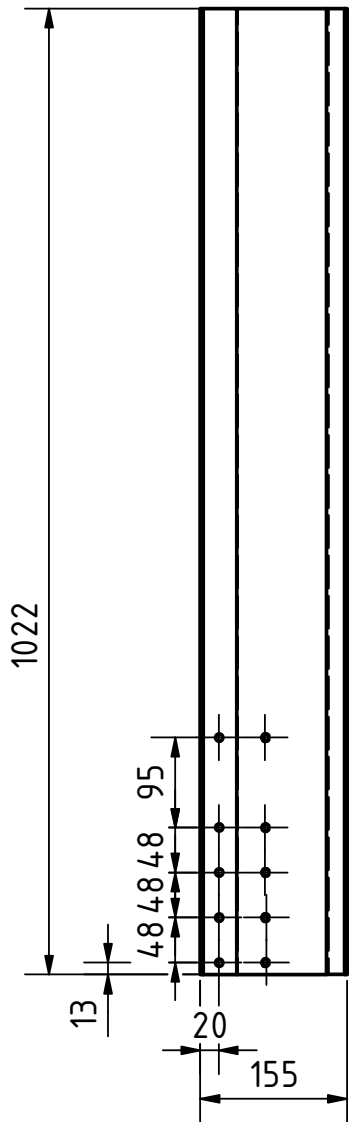
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
hub-72		hub.ipt			2.1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Steel, ASTM 1045 / DIN C45	1
	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	17 / 29




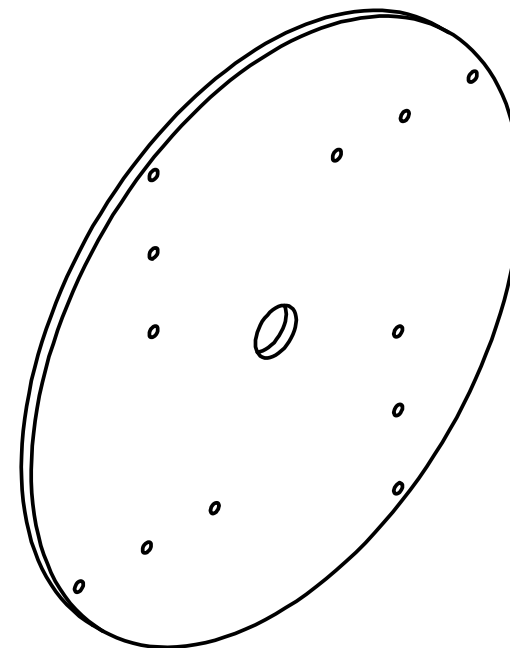
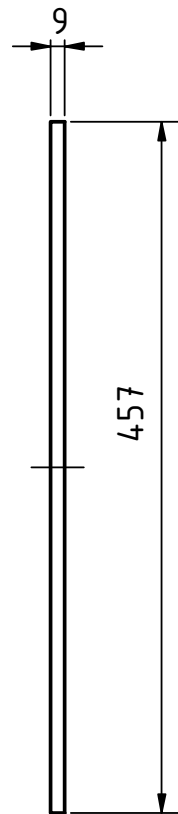
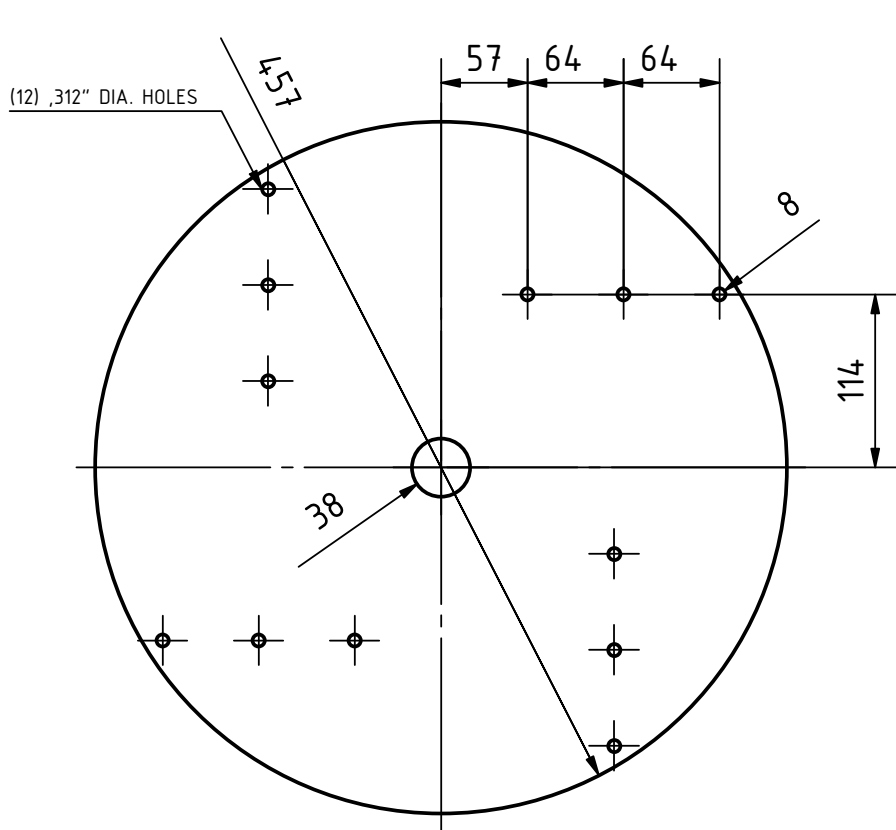
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
blade-72		blade.ipt			2.2
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Aluminun, 6063 - T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:8	18 / 29




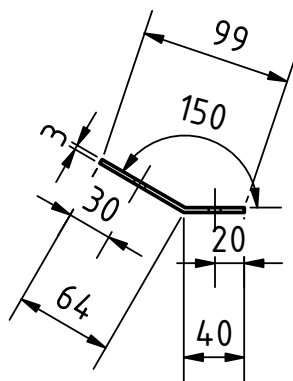
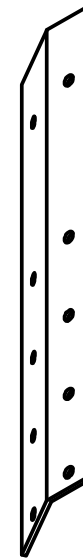
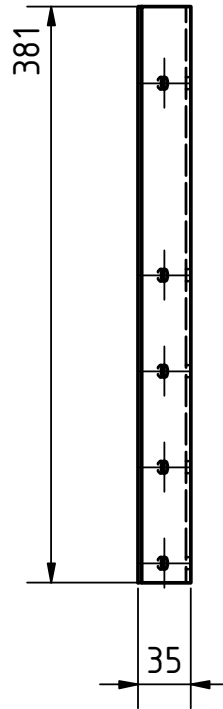
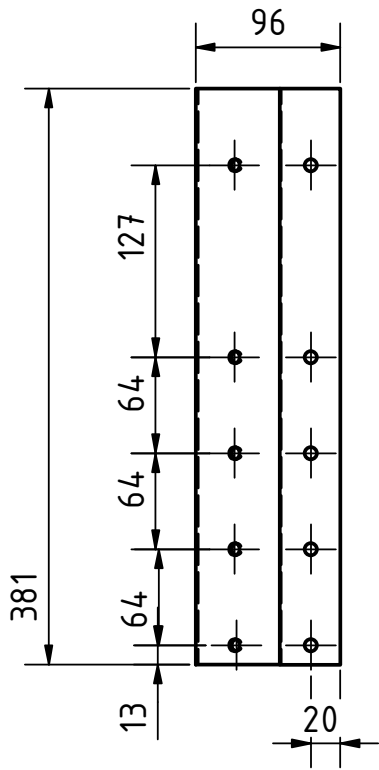
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
hub-84		hub.ipt			3.1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Steel, ASTM 1045 / DIN C45	1
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	19 / 29




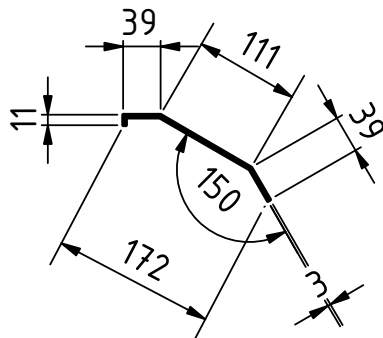
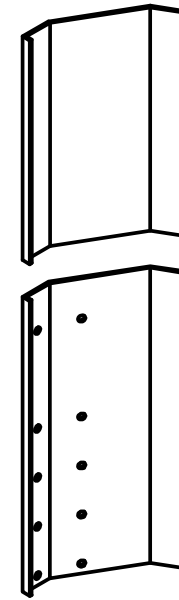
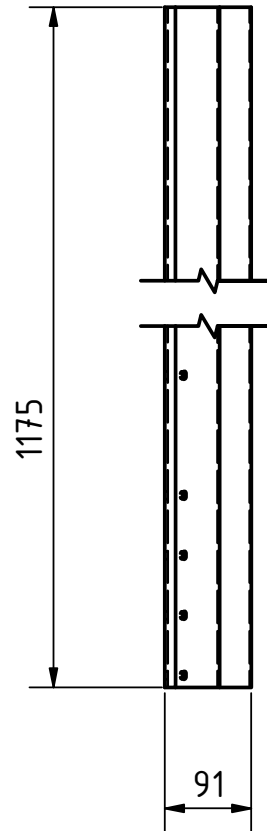
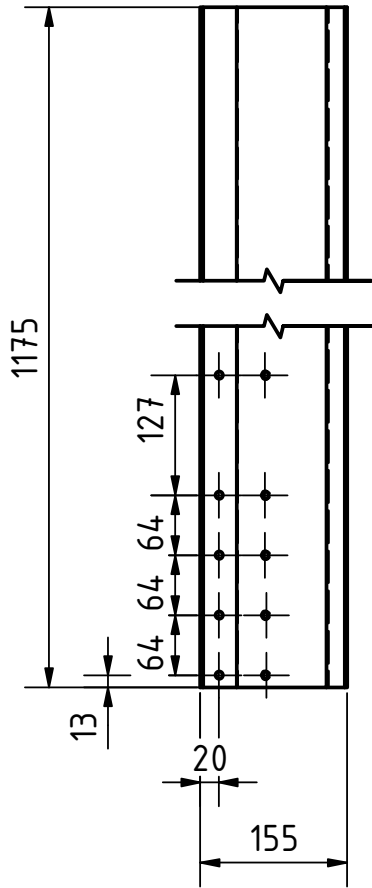
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
blade-84		blade.ipt			3.2
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Aluminun, 6063 - T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:8	20 / 29




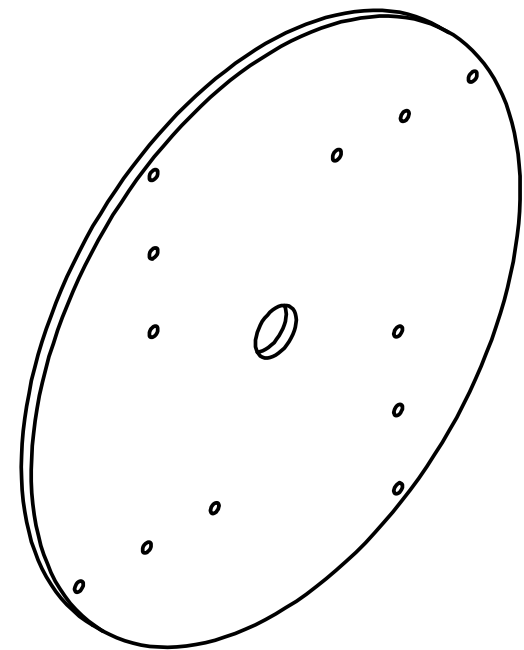
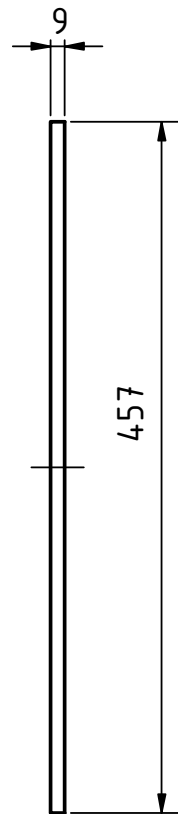
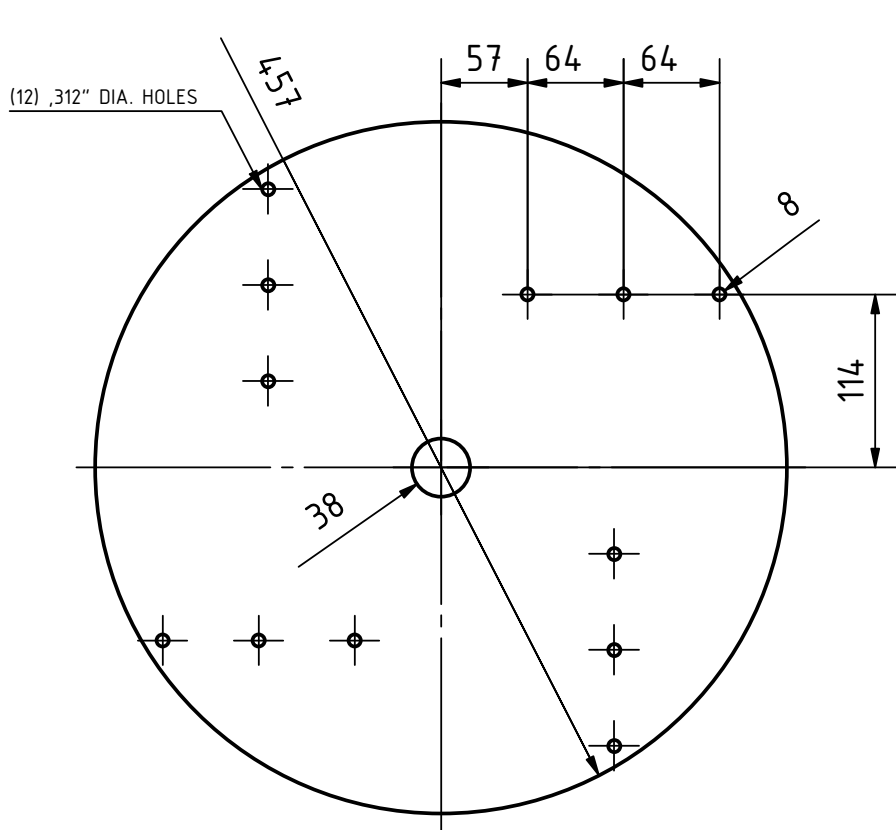
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
hub-96		hub.ipt			4.1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Steel, ASTM 1045 / DIN C45	1
	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	21 / 29




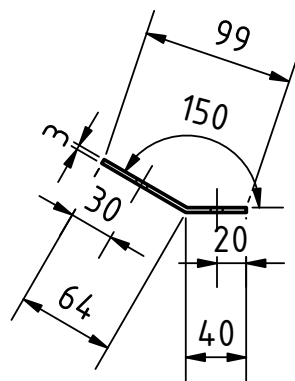
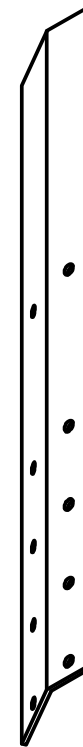
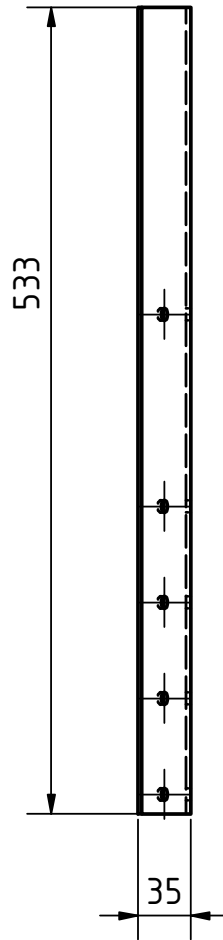
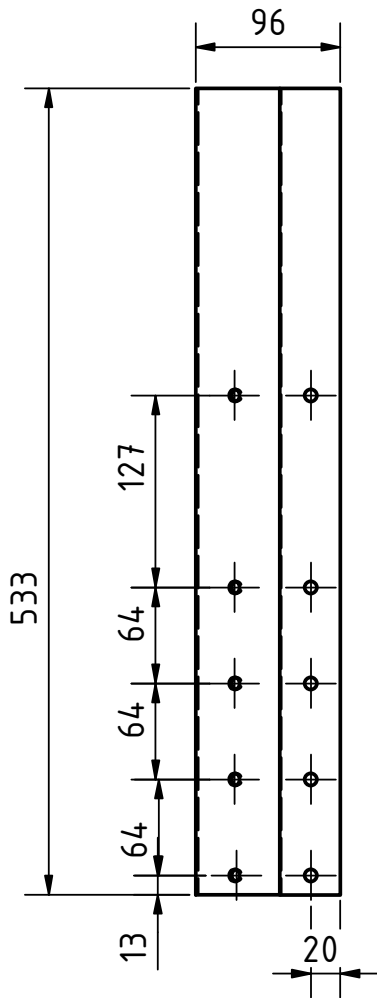
PROJECT		CREATED BY		APPROVED BY		DATE		VERSION	
60-120 Dia Wind Mill Blades		E. CEBALLOS		A. MORILLO		04-06-21		1.0	
PART NAME				FILE NAME				PART CODE	
stiffener-96				stiffener.ipt				4.2	
DEVELOPED BY		REDESIGNED BY		SUPPORTED BY		DOC. TYPE	MATERIAL		QUANTITY
Unknown		 OPEN SOURCE ECOLOGY GERMANY				PART	Aluminum, 6063 -T5		4
						LICENCE		SCALE	SHEET
						CC-BY-SA 4.0		1:5	22 / 29



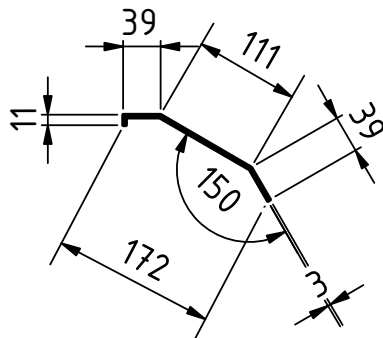
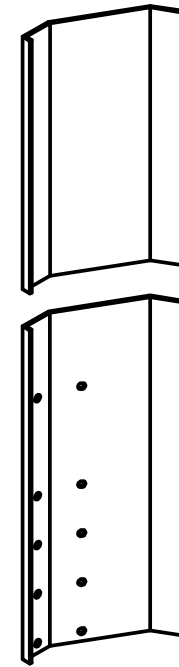
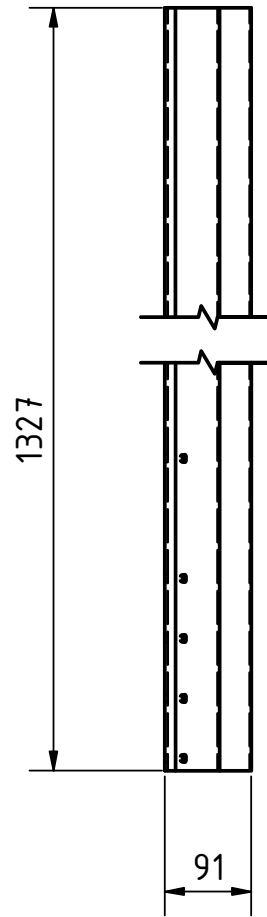
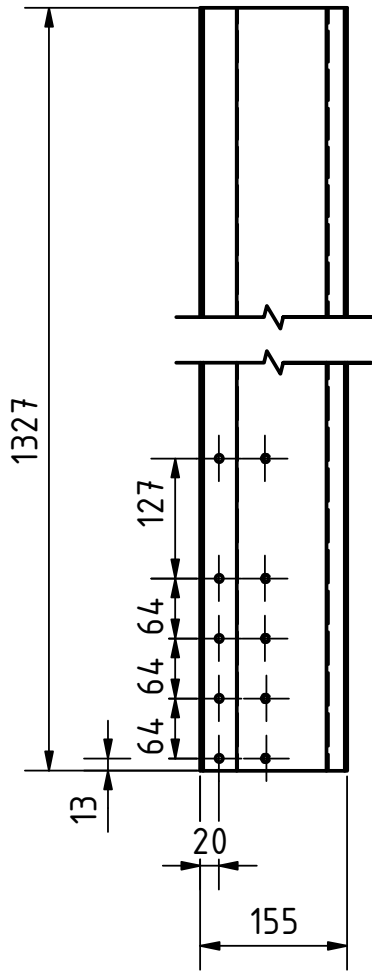
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
blade-96		blade.ipt			4.3
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Aluminun, 6063 - T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:8	23 / 29




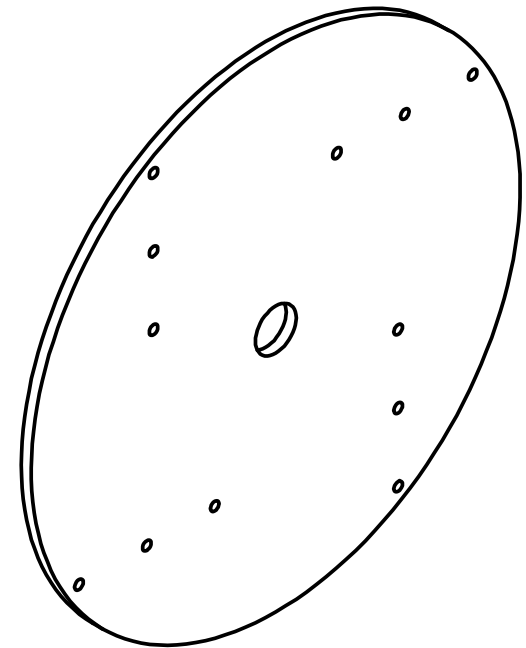
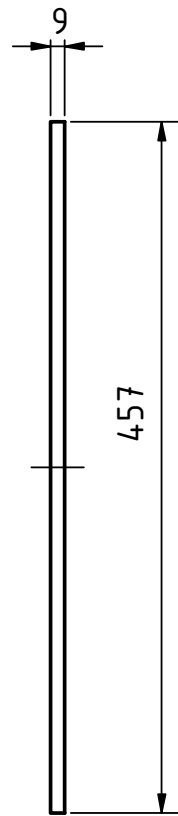
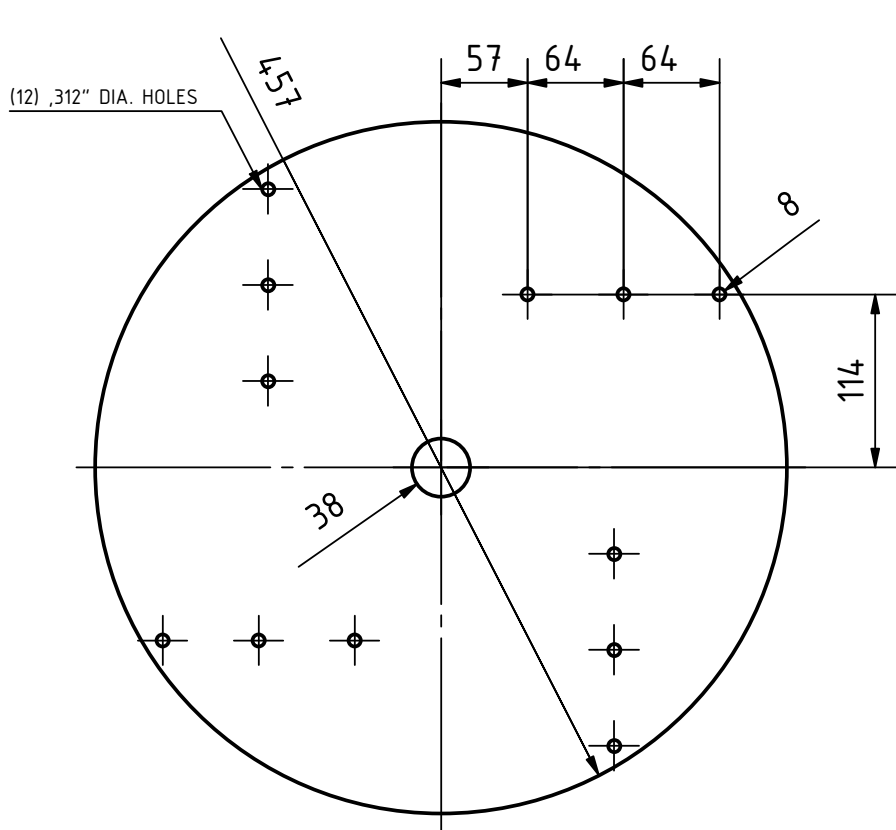
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
hub-108		hub.ipt			5.1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Steel, ASTM 1045 / DIN C45	1
	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	24 / 29




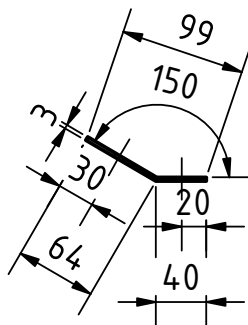
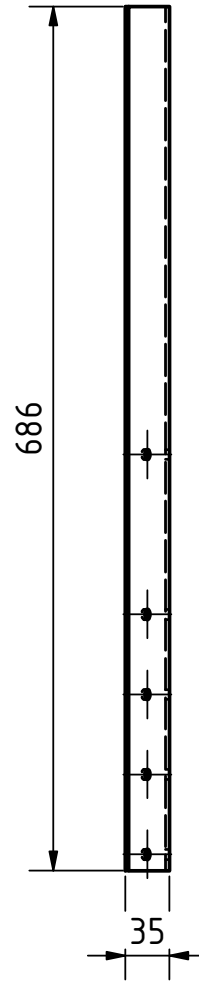
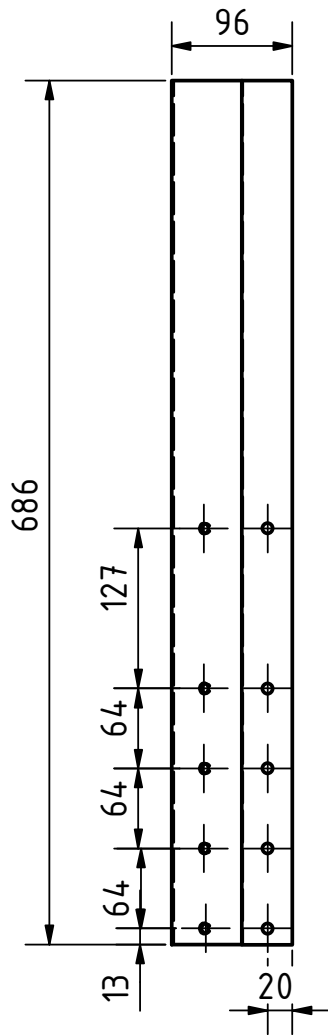
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
stiffener-108		stiffener.ipt			5.2
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 <small>OPEN SOURCE ECOLOGY GERMANY</small>		PART	Aluminum, 6063 -T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	25 / 29



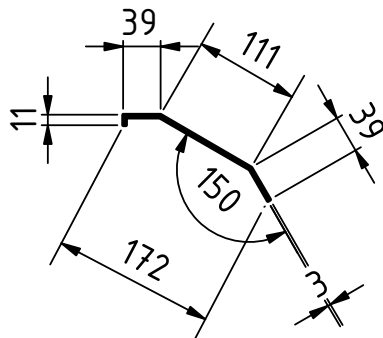
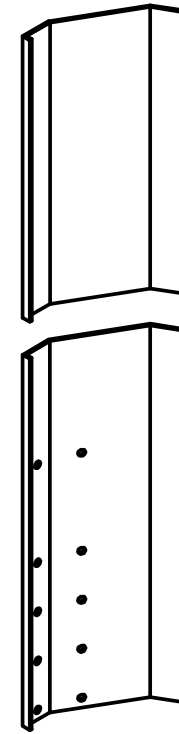
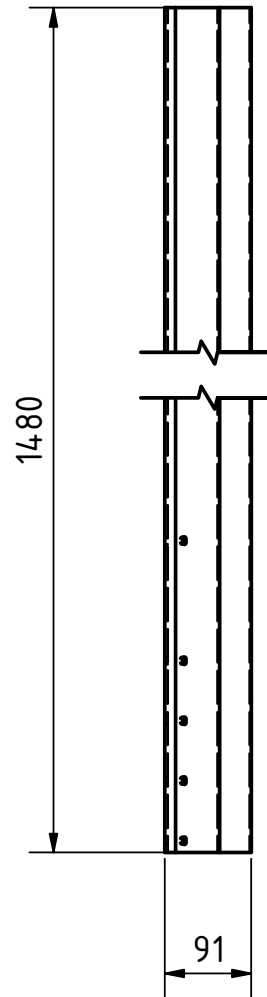
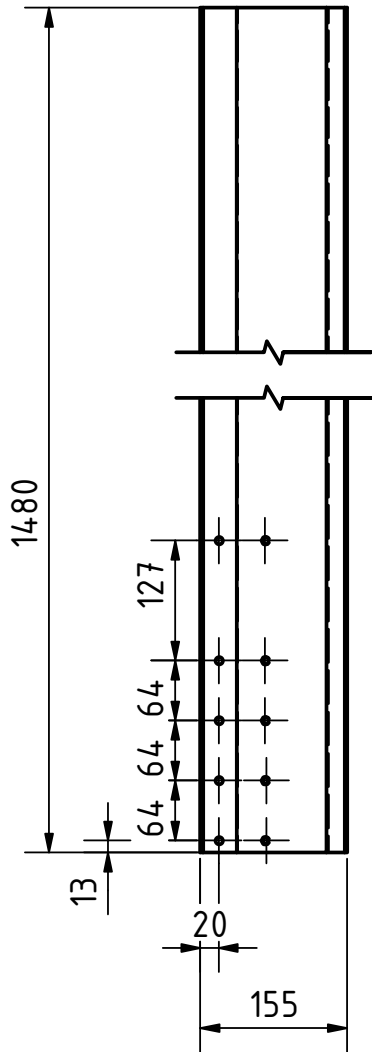
PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
blade-108		blade.ipt			5.3
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Aluminun, 6063 - T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:8	26 / 29



PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
hub-120		hub.ipt			6.1
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
			PART	Steel, ASTM 1045 / DIN C45	1
Unknown	OSEG		LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:5	27 / 29



PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
stiffener-120		stiffener.ipt			6.2
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OPEN SOURCE ECOLOGY GERMANY		PART	Aluminum, 6063 -T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:6	28 / 29



PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
60-120 Dia Wind Mill Blades		E. CEBALLOS	A. MORILLO	04-06-21	1.0
PART NAME		FILE NAME			PART CODE
blade-120		blade.ipt			6.3
DEVELOPED BY	REDESIGNED BY	SUPPORTED BY	DOC. TYPE	MATERIAL	QUANTITY
Unknown	 OSEG		PART	Aluminun, 6063 - T5	4
			LICENCE	SCALE	SHEET
			CC-BY-SA 4.0	1:8	29 / 29