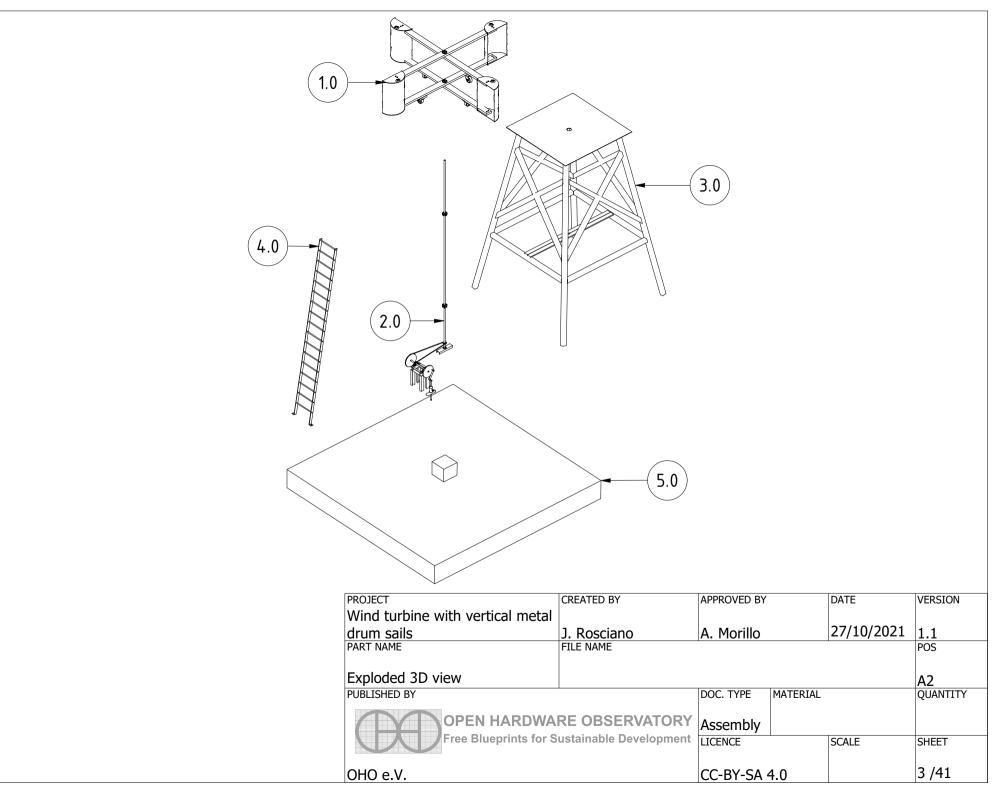


				Note: All ເ	ınits in mm.		
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION		
Wind turbine with vertical metal							
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1		
PART NAME	FILE NAME				POS		
Wind mill assembly	Wind mill assembly.ia	Wind mill assembly jam					
PUBLISHED BY		DOC. TYPE	MATERIAL		A1 QUANTITY		
OPEN HARDWA	Assembly			1			
Free Blueprints for S	LICENCE		SCALE	SHEET			
OHO e.V.		CC-BY-SA	4.0	1/100	2 /41		



			Parts list			
POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	1	3d views				1
A1	1	3d views				2
A2	1	Exploded 3d view				3
B1	1	Parts list				4
B2	1	Parts list				5
C1		Technical notes				6
1.0	1	Sails top assembly	Sails top assembly			7-8
1.1	4	Drum	Drum	Producction	Steel drum 55 gallon	9
1.2	4	Sails support	Sails support	Producction	50.800 x 152.400 Hardwood	10
1.3	2	Wheel support	Wheel support	Producction	50.800 x 152.401 Hardwood	11
1.4	8	Cables		Buy	OD 3 long 1750	
1.5	4	Castors		Buy	OD 440	
1.6	8	Sails bolt		Standard	DIN 933 - M14 x 150	
1.7	8	Sails nut		Standard	DIN 555-5 - M14	
1.8	16	Drum bolt		Standard	DIN 960 - M10 x 1 x 70	
1.9	16	Drum nut		Standard	DIN 439 - M10 x 1	
1.10	4	Sails flange connections		Standard	ASME B16.5 Flange Slip-On Welding - Class 150	
2.0	1	Mechanism assembly	Mechanism assembly			12-13
2.1	1	Axle A	Axle A	Producction	OD 33 ASTM A36	14
2.2	1	Axle B	Axle B	Producction	OD 33 ASTM A36	15
2.3	1	Pulley axle	Pulley axle	Producction	OD 29 DIN C45	16
2.4	1	Small pulley	Small pulley	Producction	OD 79 DIN C46	17
2.5	1	Large pulley	Large pulley	Producction	OD 321 DIN C47	18
2.6	1	Pump stroke	Pump stroke	Producction	OD 300 DIN C48	19
2.7	1	Bearing support	Bearing support	Producction	DIN1026-1 - U 100 - 400	20
2.8	2	Pulley base A	Pulley base A	Producction	DIN1026-1 - U 80 - 250	21
2.9	2	Pulley base B	Pulley base B	Producction	DIN1026-1 - U 80 - 255	22
2.10	4	Pulley base support	Pulley base support	Producction	DIN1026-1 - U 80 - 420	23
2.11	1	V-Belt		Buy	8-DIN 2215 Long 3355.53	

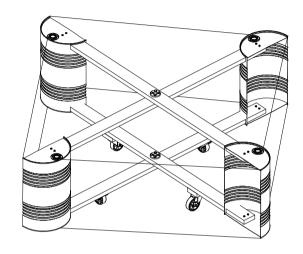
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Parts list					B1
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
OPEN HARDWA	Parts list				
		LICENCE	1	SCALE	SHEET
OHO e.V.		CC-BY-SA	4 N		4 /41

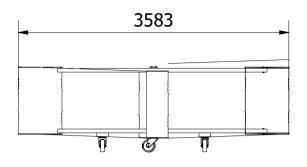
			Parts list			
POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
2.12	2	Bearing		Buy	SKF_P2B 102-FM	
2.13	1	Axle bearing		Buy	BS 292 - SKF ALC 1 3/8	
2.14	3	Flange connections		Standard	ASME B16.5 Flange Slip-On Welding - Class 150	
2.15	1	rod	rod	Producction	OD 26.670 ASME B36.10M Pipe 3/4 - Schedule 40	24
2.16	1	Pump		Buy	Handpump	
2.17	8	Bolts flange connections		Standard	DIN 933 - M14 x 60	
2.18	8	Nuts flange connections		Standard	DIN 555-5 - M14	
2.19	4	Bolts bearing		Standard	DIN 6921 - M14 x 45	
2.20	4	Nuts bearing		Standard	DIN 555-5 - M14	
3.0	1	Structure assembly	Structure assembly			25-26
3.1	1	Floor	Floor	Production	10 x 2000 Hardwood	27
3.2	4	Tower leg	Tower leg	Production	DIN 59 410 - 100x100x4	28
3.3	8	Cross	Cross	Production	DIN 59 410 - 100x100x4	29
3.4	4	Тор	Тор	Production	DIN 59 410 - 100x100x5	30
3.5	4	Base	Base	Production	DIN 59 410 - 100x100x4	31
3.6	2	Base support	Base support	Production	101.6x 25.4 Hardwood	32
4.0	1	Stairs assembly	Stairs assembly			33-34
4.1	2	Stairs Leg	Stairs Leg	Production	65 x 10 ASTM A36	35
4.2	16	Stairs step	Stairs step	Production	OD 20 ASTM A36	36
4.3	2	Conn plate	Conn plate	Production	65x10 ASTM A36	37
5.0	1	Foundation assembly	Foundation assembly			38-39
5.1	1	Foundation A	Foundation A	Production	5000x500x5000 Concrete	40
5.2	1	Foundation B	Foundation B	Production	400x350x400 Concrete	41

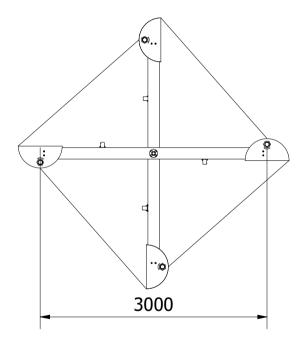
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Parts list					B2
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
OPEN HARDWA	Parts list				
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4 0		5 /41

	TECHNICL NOTES					
NOTES	CONTENT					
GENERAL NOTES						
	Iron structures should be painted to prevent rust and improve equipment life.					
	- Remove loose rust with a wire brush, sandpaper or chemical rust remover.					
Metal structure treatment	- If applicable, sand areas where paint is chipping until surface is smooth.					
	- Remove dust or oil with a degreaser or denatured alcohol.					
	- Prime surface to protect against rust and corrosion					
	- The ground must be stable and have a low water table.					
Foundations fixing	- The structure must be fixed on firm oncrete soil or on poured footings with steel reinforcement.					
Foundations fixing	- The anchorage can be bolted with expansive ramplugs or welded.					
	- The foundation will be made with 1/2-inch rods.					
Maria de la calenda de la cale	- The wood must be treated with pesticides and kiln-dried to ensure adequate humidity.					
Wood treatment	- Wood sealer should be applied for later use.					

PROJECT Wind turbine with vertical metal	CREATED BY	APPROVED BY		DATE	VERSION
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Technical notes					C1
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
A OPEN HARRIMA	DE ODOEDVATORY	Technical			
/	RE OBSERVATORY	notes			
Free Blueprints for S	LICENCE	•	SCALE	SHEET	
OHO e.V.	CC-BY-SA	4.0		6 /41	







CREATED BY

J. Rosciano

Sails top assembly.iam

Note: All units in mm. 27/10/2021 1.1 POS 1.0 QUANTITY MATERIAL

PUBLISHED BY DOC. TYPE **OPEN HARDWARE OBSERVATORY** Free Blueprints for Sustainable Development

Assembly LICENCE SCALE SHEET 1/50 7 /41 CC-BY-SA 4.0

APPROVED BY

A. Morillo

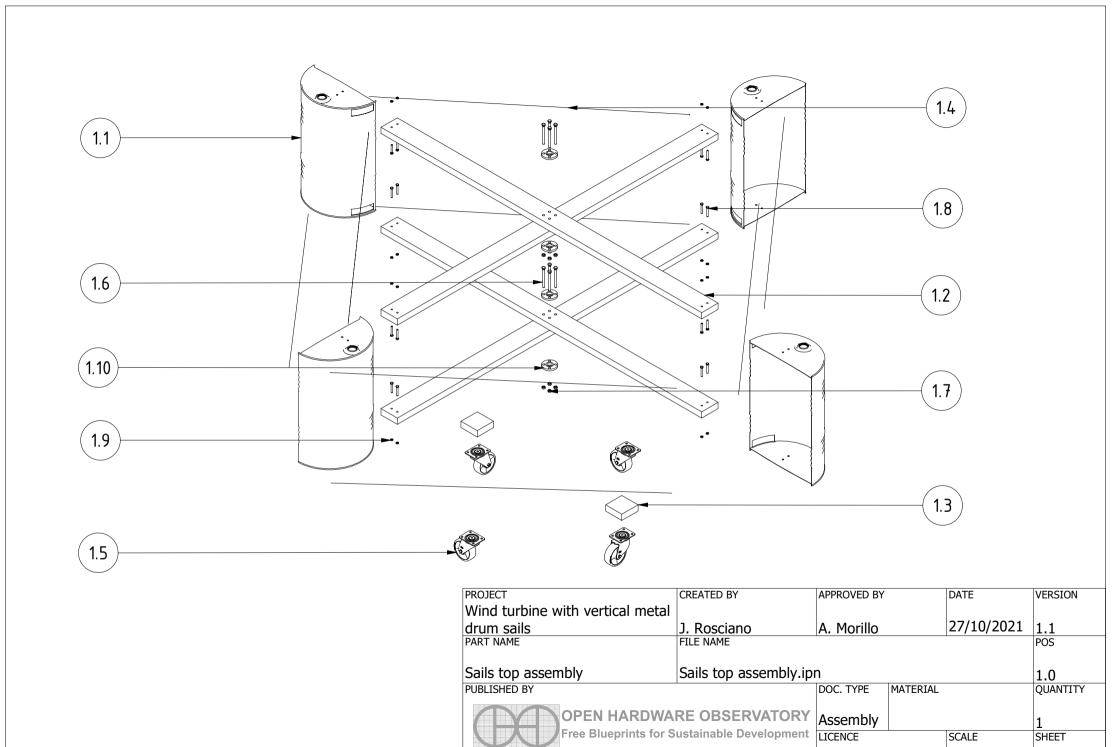
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PROJECT

drum sails PART NAME

Wind turbine with vertical metal

Sails top assembly

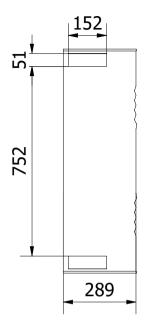


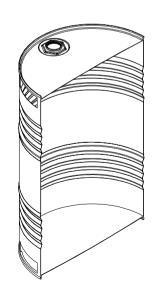
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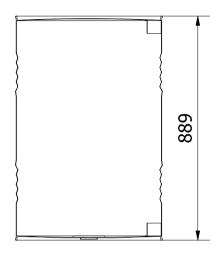
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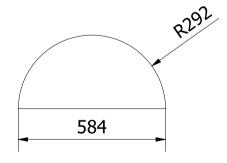
CC-BY-SA 4.0

8 /41

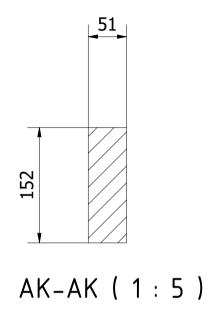


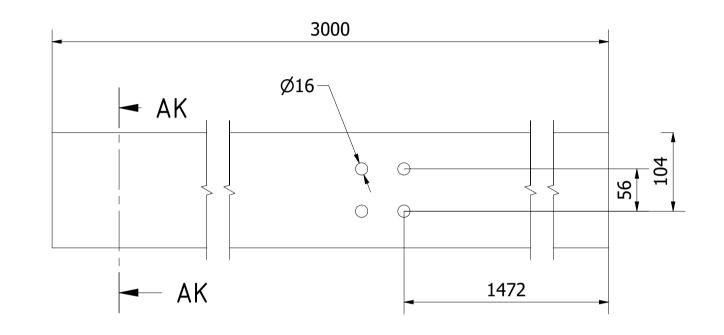




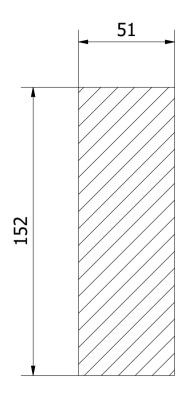


				Note: All u	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Drum	Drum.ipt				1.1
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
/ a	RE OBSERVATORY	Part	Steel dru	ım 55 gallon	4
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/15	9 /41

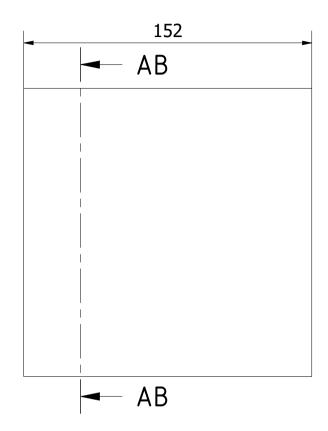




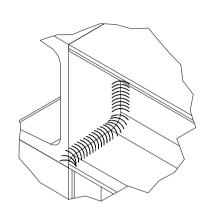
				Note: All u	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Sails support	Sails support.ipt				1.2
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
ODEN HARDWA	DE ODCEDVATORY				
7 <u>a </u>	RE OBSERVATORY	Part	Hardwoo	od	2
Free Blueprints for Sustainable Development		LICENCE	•	SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/5	10 /41



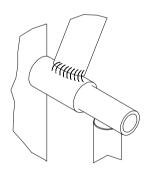
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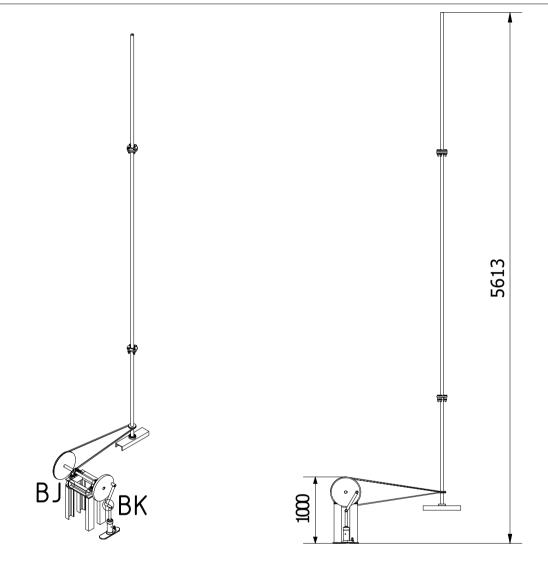
				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Wheel support	Wheel support.ipt				1.3
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
	RE OBSERVATORY	Part	Hardwoo	od	2
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/2	11 /41



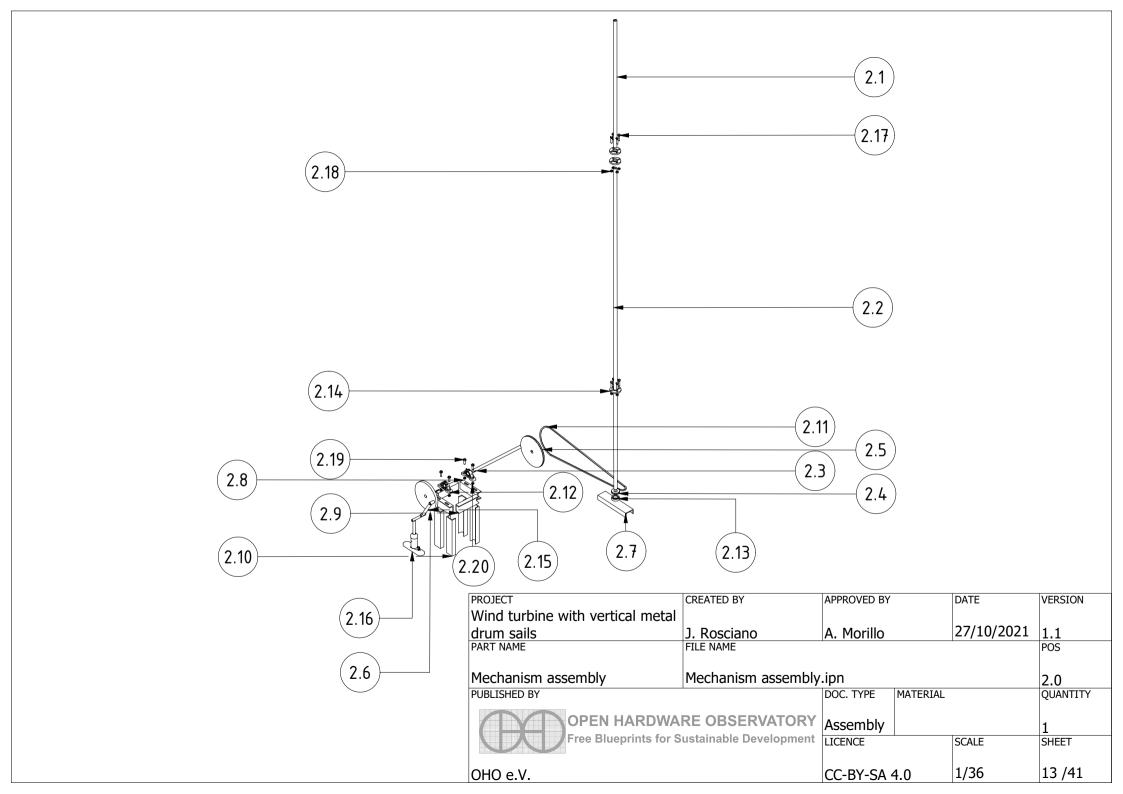
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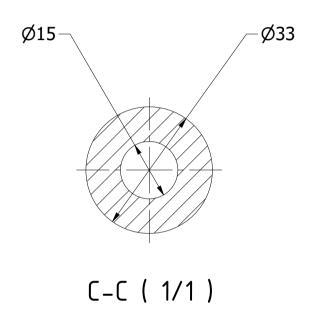


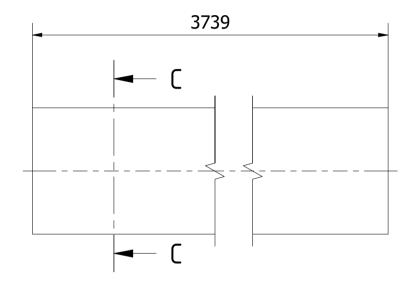
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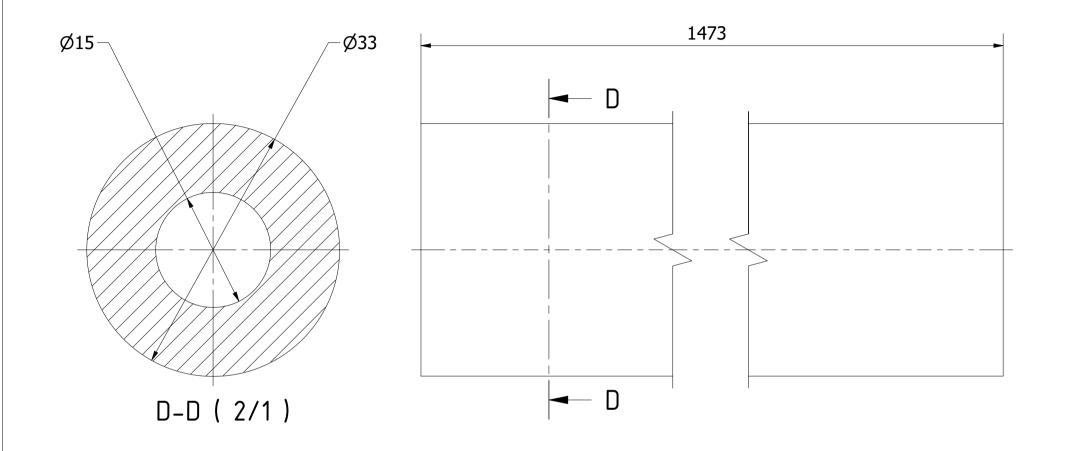
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PROJECT	CREATED BY	APPROVED BY		DATE	VERSION	
Wind turbine with vertical metal						
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1	
PART NAME	FILE NAME				POS	
Mechanism assembly	Mechanism assembly	Mechanism assembly.iam				
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY	
' A	OPEN HARDWARE OBSERVATORY				1	
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET	
OHO e.V.		CC-BY-SA	4.0	1/45	12 /41	



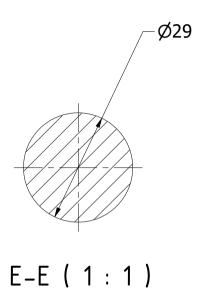


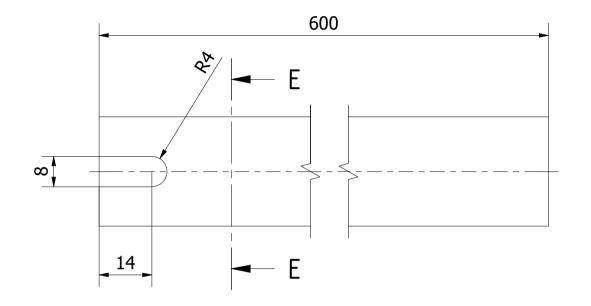


				Note: All ເ	inits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Axle A	Axle A.ipt				2.1
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
	DE 000ED\/4T0D\/				
/ A	RE OBSERVATORY	Part	DIN C45		1
Free Blueprints for S	LICENCE		SCALE	SHEET	
OHO e.V.		CC-BY-SA	4.0	1/1	14 /41

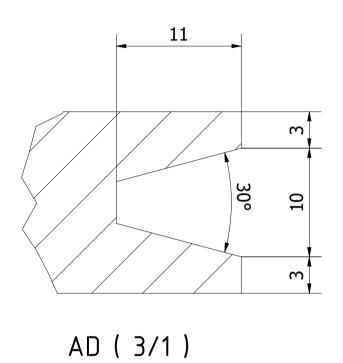


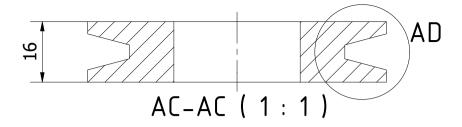
				Note: All u	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Axle B	Axle B.ipt				2.2
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
		Part LICENCE	DIN C45	SCALE	1 SHEET
OHO e.V.		CC-BY-SA	4.0	2/1	15 /41
OHO C.V.		CC-DI-2H	Τ.υ	<i>~</i> / <del>*</del>	15 / 11

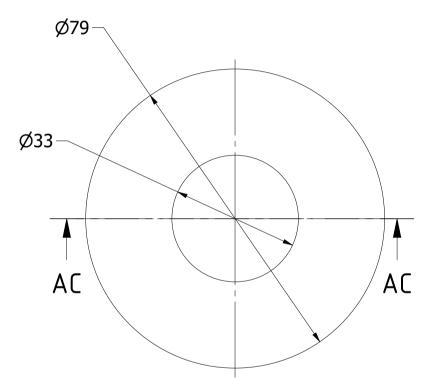




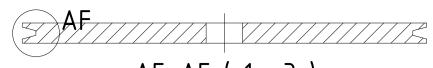
				Note: All u	nits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Pulley axle	Pulley axle.ipt				2.3
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
OPEN HARDWARE OBSERVATORY		Part	DIN C45		1
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/1	16 /41



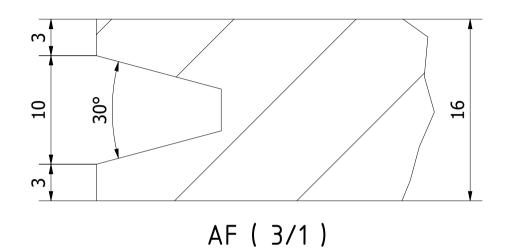


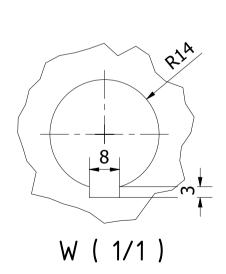


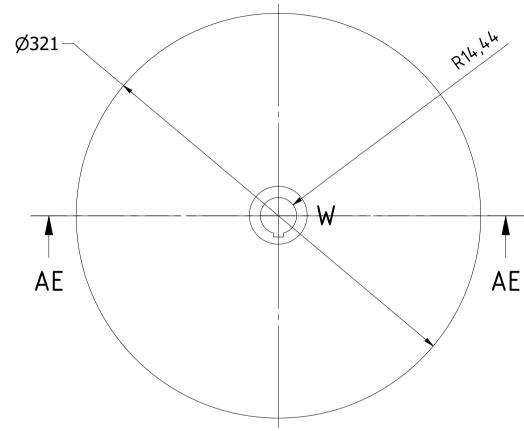
				Note: All u	ınits in mm.		
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION		
Wind turbine with vertical metal							
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1		
PART NAME	FILE NAME				POS		
Small pulley	Small pulley.ipt	mall pulley.ipt					
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY		
E DI CONTROL DE LA CONTROL DE		Part	DIN C45		1		
Tree Blueprints for 3	ustamable bevelopment	LICENCE		SCALE	SHEET		
OHO e.V.		CC-BY-SA	4.0	1/1	17 /41		



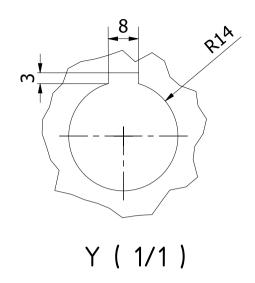
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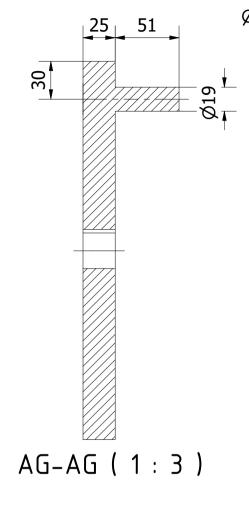


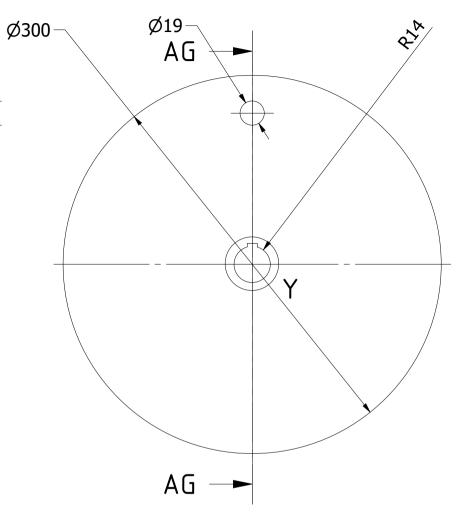


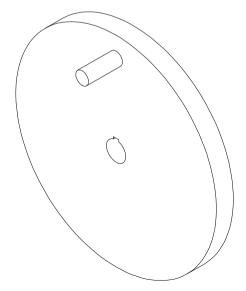


				Note: All u	nits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Large pulley	Large pulley.ipt				2.5
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
OPEN HARDWARE OBSERVATORY		Part	DIN C45		1
Pree Blueprints for 3	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/3	18 /41

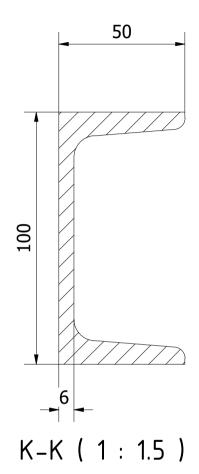


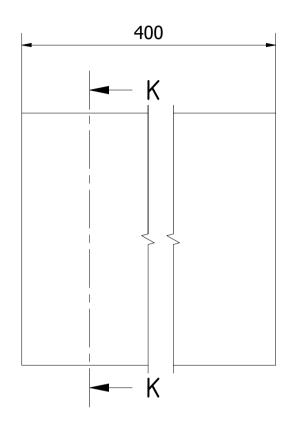




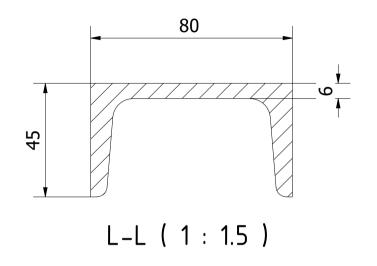


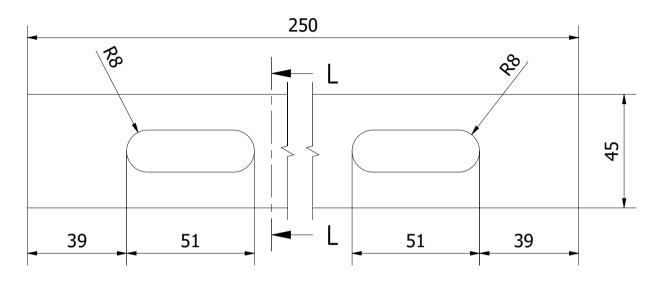
				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Pump stroke	Pump stroke.ipt				2.6
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
		Part LICENCE	DIN C45	SCALE	1 SHEET
OHO e.V.	•	CC-BY-SA	4.0	1/3	19 /41



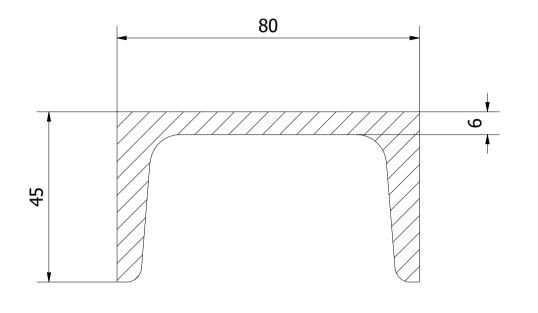


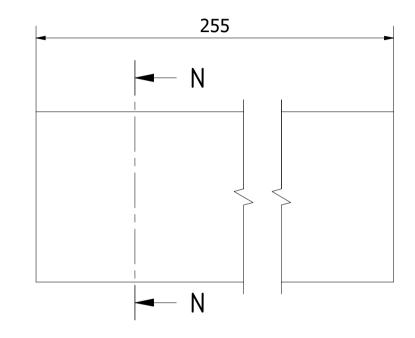
				Note: All u	ınist in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Bearing support	Bearing support.ipt				2.7
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
/ <u></u>	RE OBSERVATORY	Part	ASTM A3	36	1
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/1.5	20 /41





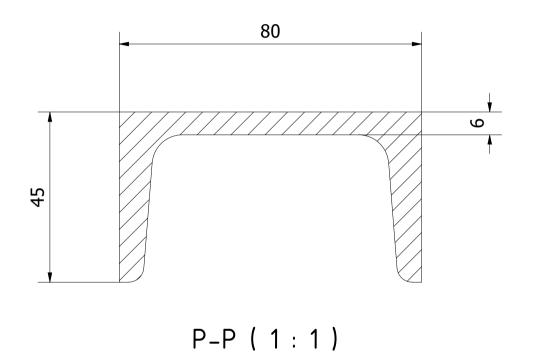
				Note: All	units in mm
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Pulley Base A	Pulley Base A				2.8
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
` <u> </u>	RE OBSERVATORY	Part	ASTM A3	36	2
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/1.5	21 /41

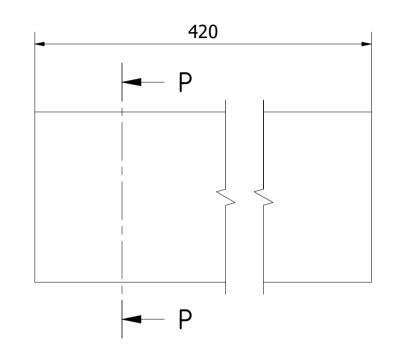




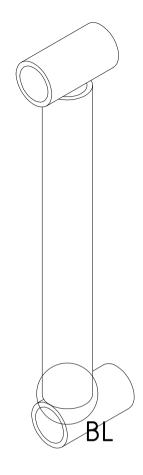
N-N ( 1 : 1 )

				Note: All ເ	ınits in mm.	
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION	
Wind turbine with vertical metal						
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1	
PART NAME	FILE NAME					
Pulley base B	Pulley base B.ipt				2.9	
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY	
		Part LICENCE	ASTM A3	36 SCALE	2 SHEET	
OHO e.V.		CC-BY-SA	4.0	1/1	22 /41	



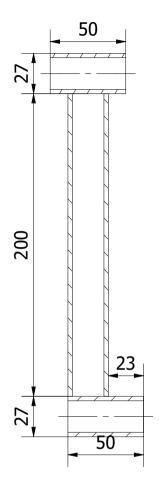


				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME	•			POS
Pulley base support	Pulley base support.i	pt			2.10
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
A A A A A A A A A A A A A A A A A A A	DE 000ED\/4T0D\/				
7 and the second and	RE OBSERVATORY	Part	ASTM A3	36	4
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/1	23 /41

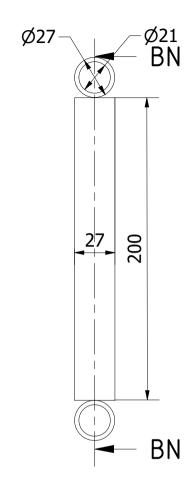




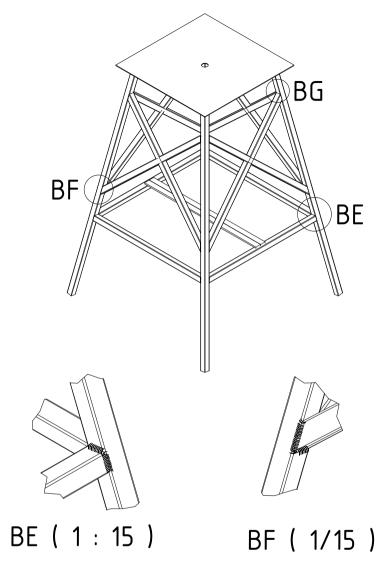
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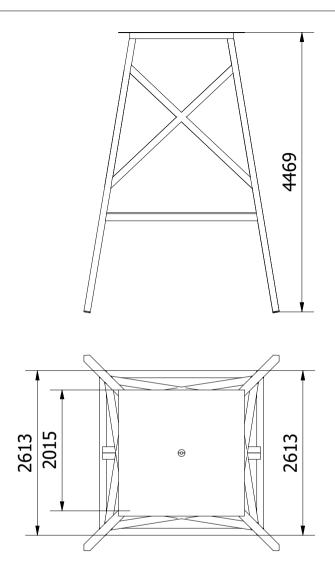


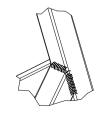
BN-BN (1: 2.5)



			Note: All u	ınits in mm.
CREATED BY	APPROVED BY		DATE	VERSION
J. Rosciano	A. Morillo		27/10/2021	1.1
FILE NAME				POS
Rod.ipt				2.15
	DOC. TYPE	MATERIAL		QUANTITY
	Part	ASTM A	36	1
Sustainable Development	LICENCE		SCALE	SHEET
	CC-BY-SA	4.0	1/2.5	24 /41
	J. Rosciano FILE NAME Rod.ipt	J. Rosciano FILE NAME Rod.ipt  RE OBSERVATORY Gustainable Development  A. Morillo DOC. TYPE Part LICENCE	J. Rosciano FILE NAME Rod.ipt  DOC. TYPE MATERIAL Part ASTM A	CREATED BY  J. Rosciano A. Morillo 27/10/2021  FILE NAME  Rod.ipt  DOC. TYPE MATERIAL  Part LICENCE  ASTM A 36 LICENCE  SCALE

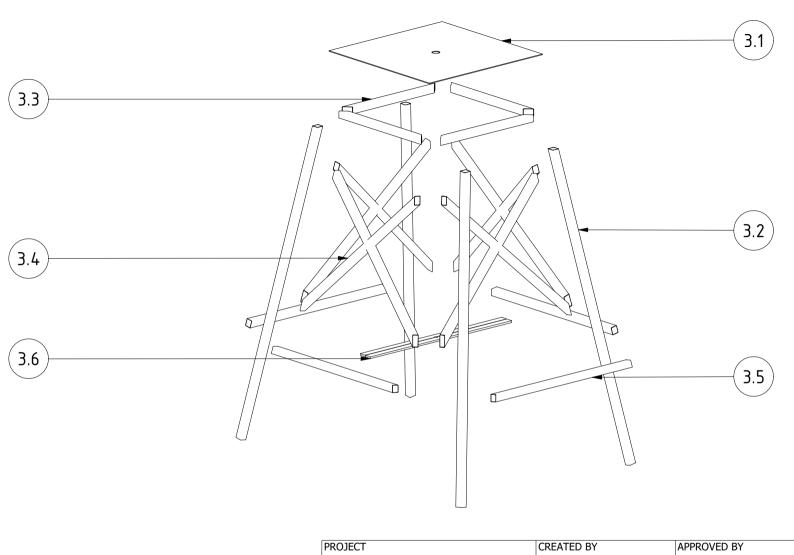




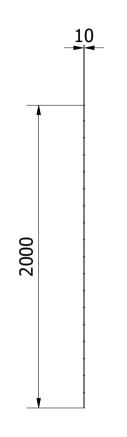


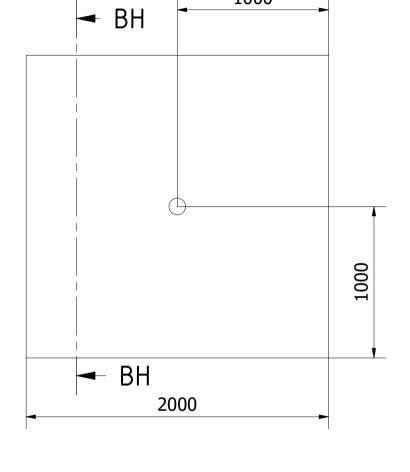
BG (1/15)

				Note: All u	inits in mm.	
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION	
Wind turbine with vertical metal						
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1	
PART NAME	FILE NAME			,	POS	
Structure assembly	Structure assembly.ia	Structure assembly.iam				
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY	
(4)	RE OBSERVATORY	Assembly			1	
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET	
OHO e.V.		CC-BY-SA	4.0	1/60	25 /41	



PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Structure assembly	Structure assembly.ip	3.0			
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
/ <u> </u>	RE OBSERVATORY	Assembly			1
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/40	26 /41

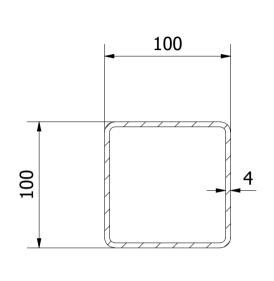




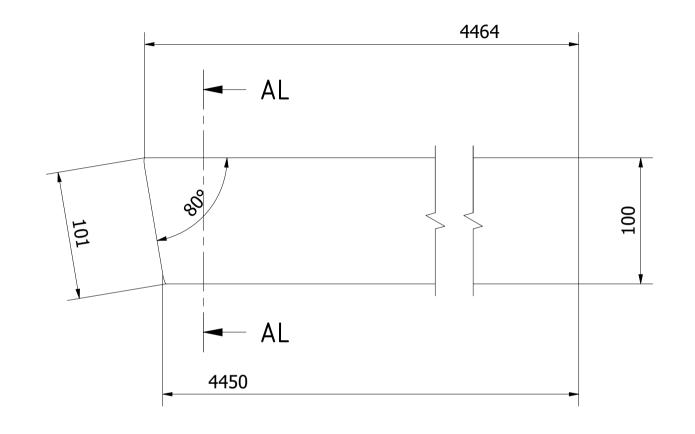
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BH-BH ( 1 :25 )

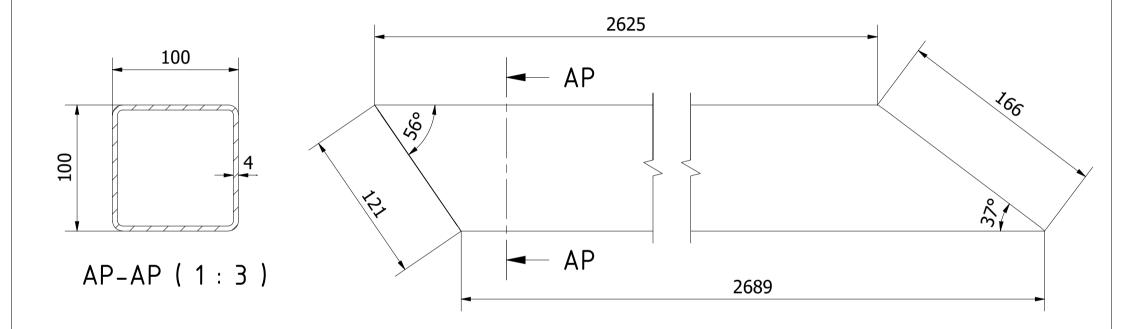
				Note: All u	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Floor	Floor.iam				3.1
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
/ <u></u>	RE OBSERVATORY	Part	Hardwoo	od	1
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/25	27 /41



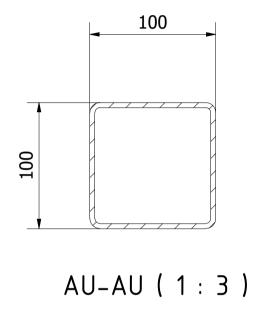
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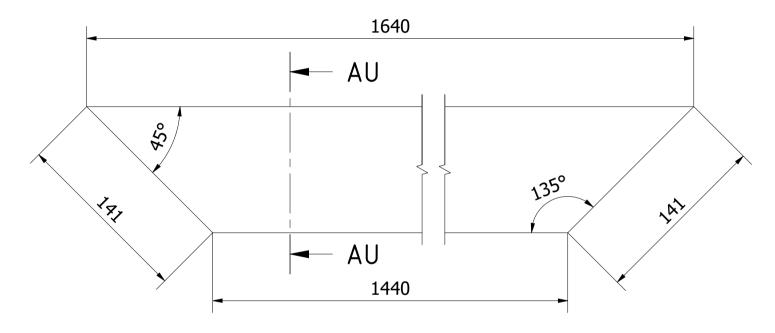


				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Tower leg	Tower leg.ipt				3.2
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
A OPEN HAPPWA	DE ODGEDVATORY				
7 <u>a </u>	RE OBSERVATORY	Part	ASTM A3	36	4
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/3	28 /41

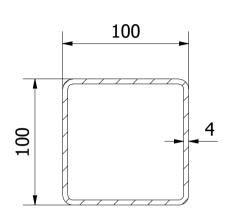


				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Cross	Cross.ipt				3.3
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
	DE 000EDV4T0DV				
	RE OBSERVATORY	Part	ASTM A3	36	8
Free Blueprints for Sustainable Development		LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/3	29 /41

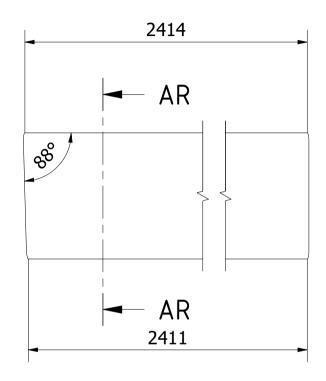




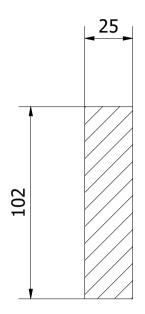
				Note: All ເ	ınits in mm.	
PROJECT	CREATED BY	APPROVED BY	APPROVED BY DATE			
Wind turbine with vertical metal						
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1	
PART NAME	FILE NAME				POS	
Тор	Top.ipt				3.4	
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY	
/ <u>A</u>	RE OBSERVATORY	Part	ASTM A3	36	4	
Free Blueprints for S	LICENCE		SCALE	SHEET		
OHO e.V.		CC-BY-SA	4.0	1/3	30 /41	



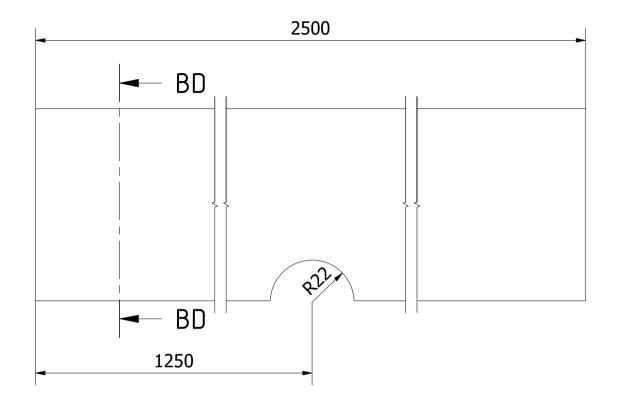
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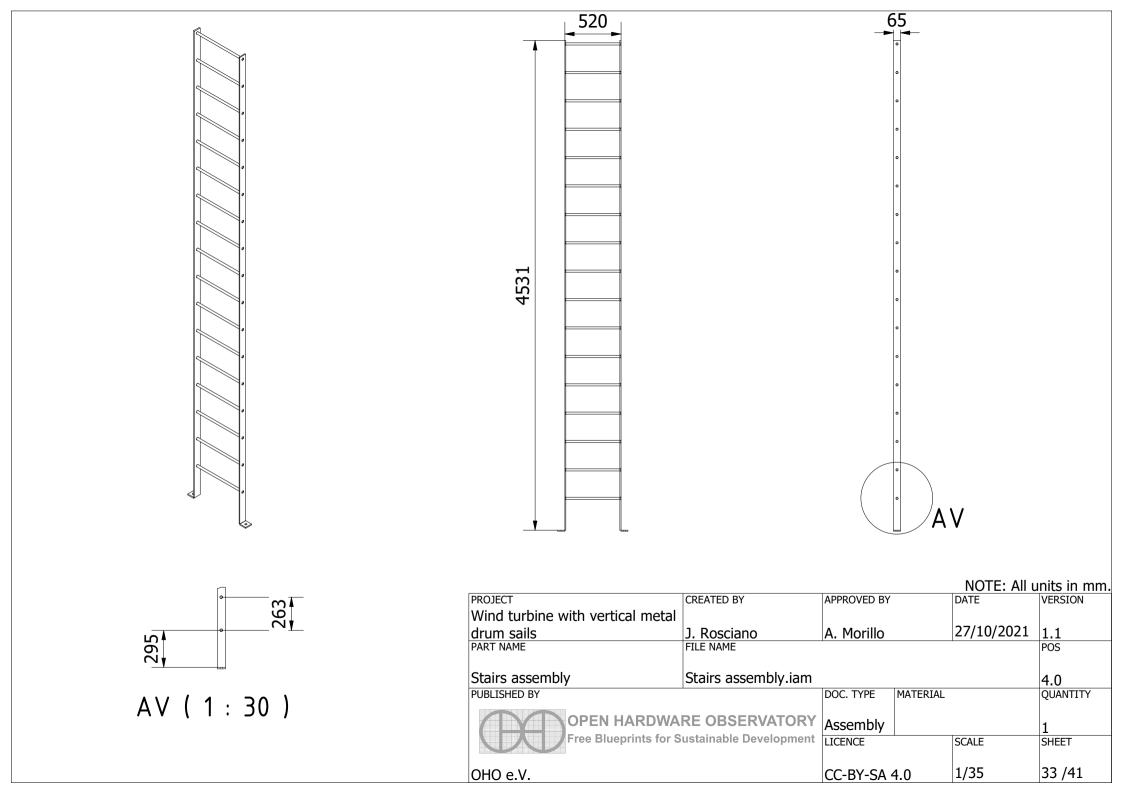
				Note: All u	ınıts ın mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Base	Base.ipt				3.5
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
OPEN HARDWARE OBSERVATORY		Part LICENCE	ASTM A3	36 SCALE	4 SHEET
OHO e.V.		CC-BY-SA	4.0	1/3	31 /41

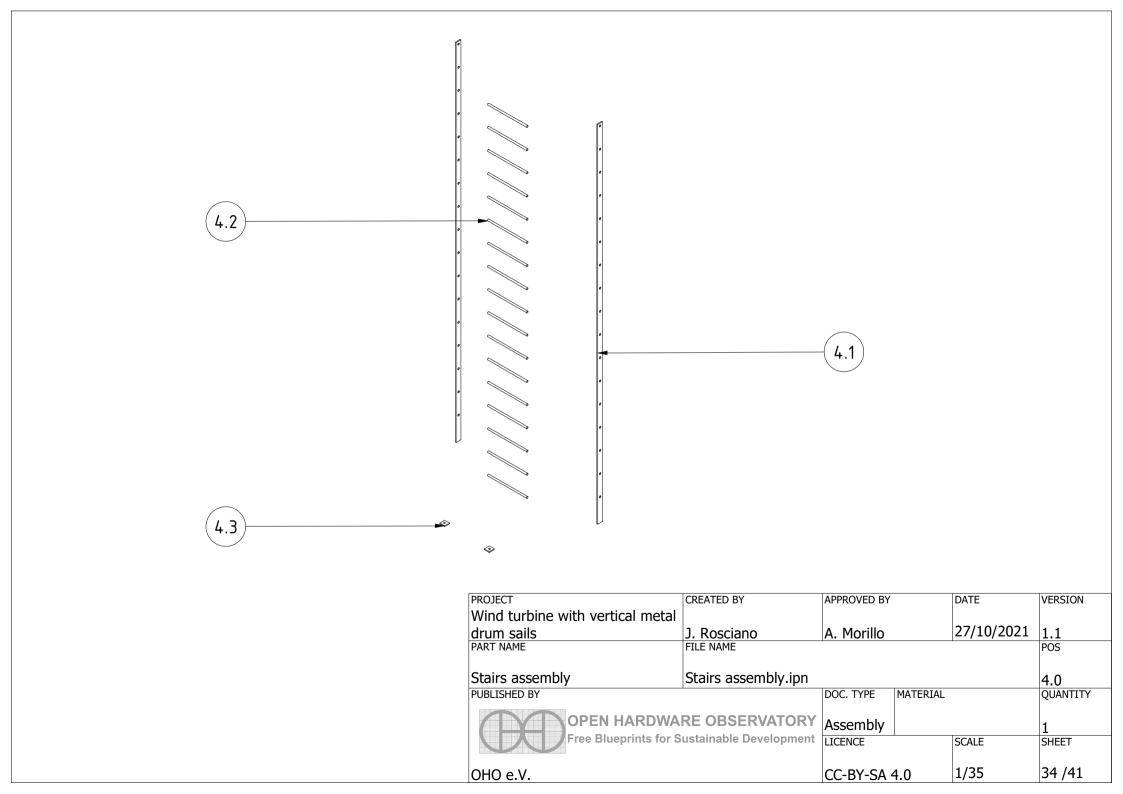


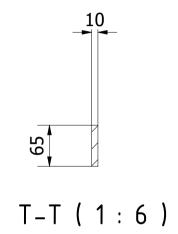
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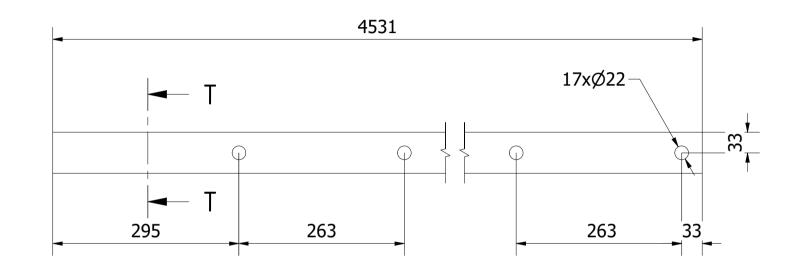


				NOTE: All u	nits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
_					
Base support	Base support.ipt				3.6
PUBLISHED BY	1	DOC. TYPE	MATERIAL		QUANTITY
	DE 000ED\/4T0D\/				
	RE OBSERVATORY	Part	Hardwoo	od	2
Free Blueprints for Sustainable Development		LICENCE	•	SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/1	32 /41

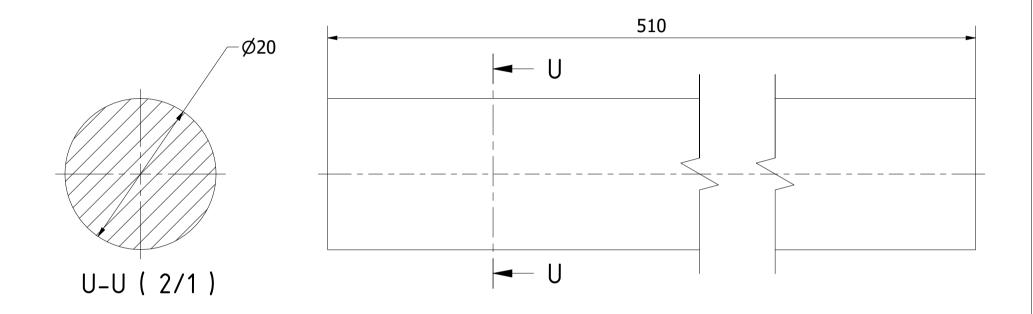




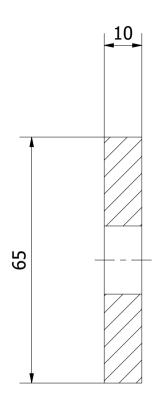




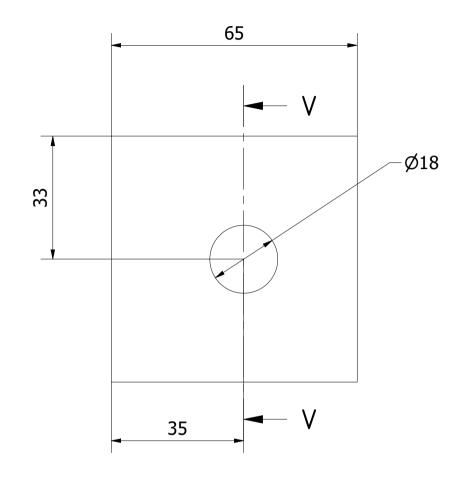
				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Stairs Leg	Stairs Leg.ipt				4.1
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
	OPEN HARDWARE OBSERVATORY		ASTM A3		2
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/6	35 /41



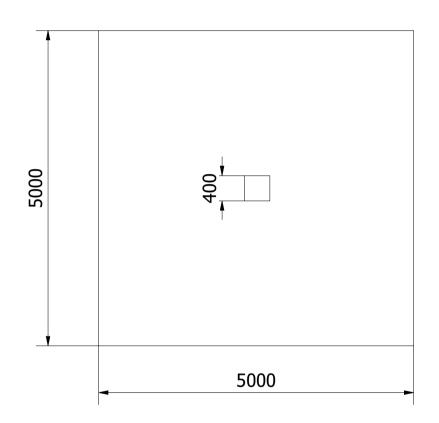
				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Stairs step	Stairs step.ipt				4.2
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
CD ODENUIA DOWA	DE ODGEDVATORY				
7 <u>4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	RE OBSERVATORY	Part	ASTM A	.36	16
Free Blueprints for S	ustainable Development	LICENCE	'	SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	2/1	36 /41

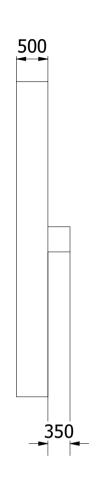


V-V ( 1 : 1 )

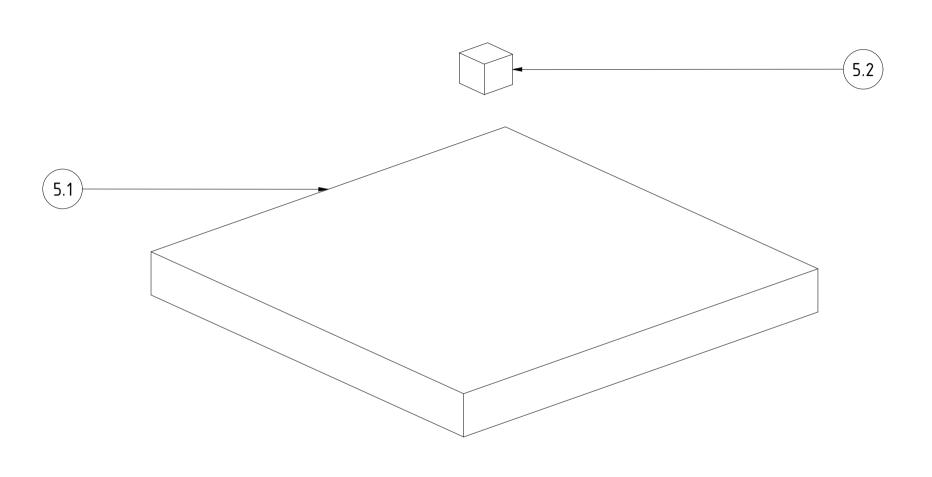


				Note: All ເ	inits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Conn plate	Conn plate.ipt				4.3
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
/ <u></u>	RE OBSERVATORY	Part	ASTM A3	36	2
Free Blueprints for S	ustainable Development	LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA	4.0	1/1	37 /41

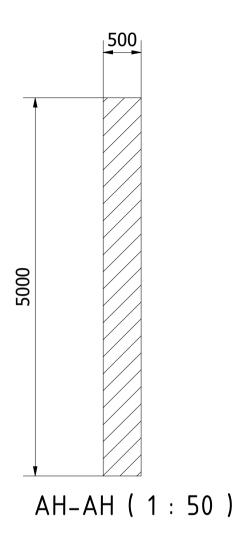


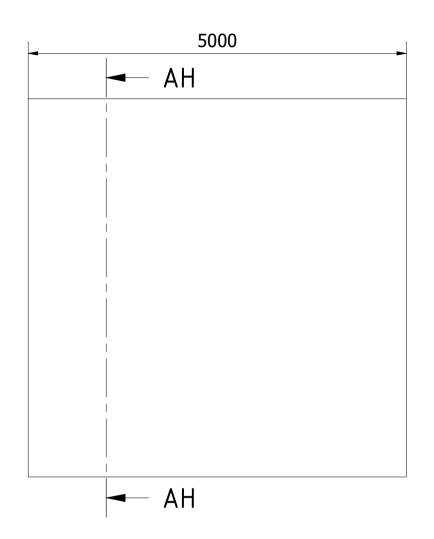


				Note: All ເ	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Foundation assembly.iam	Foundation assembly				5.0
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
/ A	OPEN HARDWARE OBSERVATORY				1
Free Blueprints for S	LICENCE		SCALE	SHEET	
OHO e.V.		CC-BY-SA	4.0	1/60	38 /41

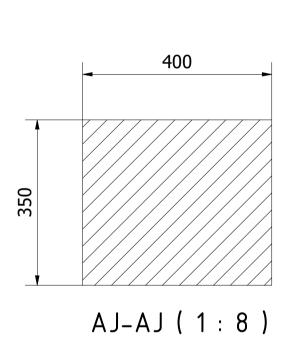


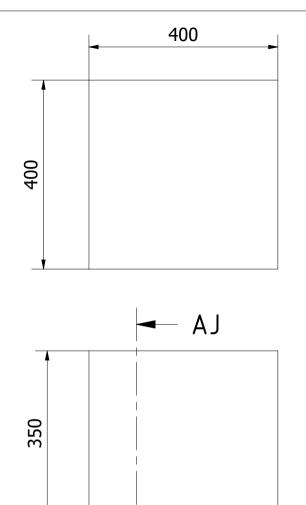
PROJECT	CREATED BY	APPROVED BY DATE			VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Fundation assembly	Fundation assembly.i	pn			5.0
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY
ODEN HARDWA	RE OBSERVATORY				
		Assembly			1
Free Blueprints for S	LICENCE		SCALE	SHEET	
OHO e.V.		CC-BY-SA	4.0	1/40	39 /41





				Note: All ເ	ınits in mm.		
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION		
Wind turbine with vertical metal							
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1		
PART NAME	FILE NAME				POS		
Fundation A	Fundation A.ipt	Fundation A.ipt 5					
PUBLISHED BY		DOC. TYPE	MATERIAL		QUANTITY		
		Part LICENCE	Concrete	SCALE	1 SHEET		
OHO e.V.		CC-BY-SA	4.0	1/50	40 /41		





**⊸** AJ

				Note: All u	ınits in mm.
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
Wind turbine with vertical metal					
drum sails	J. Rosciano	A. Morillo		27/10/2021	1.1
PART NAME	FILE NAME				POS
Foundation B	Foundation B.ipt				5.2
PUBLISHED BY DOC			MATERIAL		QUANTITY
OPEN HARDWARE OBSERVATORY  Free Blueprints for Sustainable Development		Part	Concrete	2	1
		LICENCE		SCALE	SHEET
OHO e.V.		CC-BY-SA 4.0		1/8	41 /41