

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Solar Water Heater with corru	ga-			
ted metal collector	D. MOSQUERA	A. MORILLO	16-06-21	1.0
PART NAME	FILE NAME		-	POS
explode 3D Views	eg_swh_A1_solar-v	vater-heater.ipn		A2
DEVELOPED BY RE	DESIGNED BY	DOC. TYPE MATERIA	L	QUANTITY
	- le			
1	4)	Assembly		1
		LICENCE	SCALE	SHEET
	OPEN SOURCE ECOLOGY GERMANY			
ECOTOPE GROUP OS	SEG	CC-BY-SA 4.0	1:20	3 /31
<u> JECOTOPE GROUP OS</u>	SEG	CC-BY-SA 4.0	1:20	3/31

				PART LIST			
POS	POS.OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1		1	3D-Views	eg_swh_A1_solar-water-heater.iam		1	1
A1		1	3D Views	eg_swh_A1_solar-water-heater.iam		1	2
A2		1	explode 3D Views	eg_swh_A1_solar-water-heater.ipn			3
B1			Parts list	eg_swh_A1_solar-water-heater.xls			4
B2			PART LIST	eg_swh_A1_solar-water-heater.xls			5
C1			TECH NOTES		<u> </u>	1	6
1.0		1	Box	eg_swh_box.iam			7
1.0		1	Box	eg_swh_box.ipn			8
1.1		1	Plywood sheet	eg_swh_plywood-sheet.ipt	Production	Plywood	9
1.2		2	Wood strip	eg_swh_wood-1150.ipt	Production	Wood	10
1.3		2	Wood long	eg_swh_wood-2440.ipt	Production	Wood	11
1.4		3	Wood Brace	eg_swh_wood-brace-1120.ipt	Production	Wood	12
1.5		4	Fiberglass	eg_swh_fiberglass.ipt	Production	Glass wool 350 degC	13
1.6		21	Woodscrew	eg_swh_woodscrew12.ipt	Standard	Woodscrew, Screw DIN 96 4x75	
1.7		1/2 Lb.	Nail	eg_swh_nail.ipt	Standard	Nail, D 4 x 32- Steel	
2.0		3	Corrugated sheet	eg_swh_corrugated-sheet.ipt	Production	Galvanized Steel	14
3.0		1	Manifold pipes	eg_swh_manifold-pipes.iam			15
3.0		1	Manifold pipes	eg_swh_manifold-pipes.ipn		soldadura aútogena 50%Sn	16
3.1		8	Pipe 3/4	eg_swh_pipe-3-4plg.ipt	Production	DN=3/4 in. rigid tubing typeM, Copper	17
3.2		16	Tee	eg_swh_tee-3-4.ipt	Standard	Tee DN=3/4 in. rigid tubing, solder, Copper	
3.3		14	Niple 3/4	eg_swh_niple-3-4plg.ipt	Production	DN=3/4in. rigid tubing, solder, Copper	18
3.4		2	2do. niple3/4	eg_swh_2niple-3-4plg.ipt	Production	DN=3/4 in. rigid tubing, solder, Copper	19
3.5		2	Hose adapter	eg_swh_hose-adapter.ipt	Standard	Adapter DN=3/4 in.rigid tubing, solder, Copper	
4.0		1	Frame Glazing	eg_swh_frame-glazing.iam		1	20
4.0		1	Frame Glazing	eg_swh_frame-glazing.ipn			21
4.1		3	Wood strip	eg_swh_wood-1220x1.ipt	Production	Wood	22
4.2	T	2	Wood strip long	eg_swh_wood-2440x1.ipt	Production	Wood	23
4.3		2	Wood strip	eg_swh_wood-1220x3.ipt	Production	Wood	24

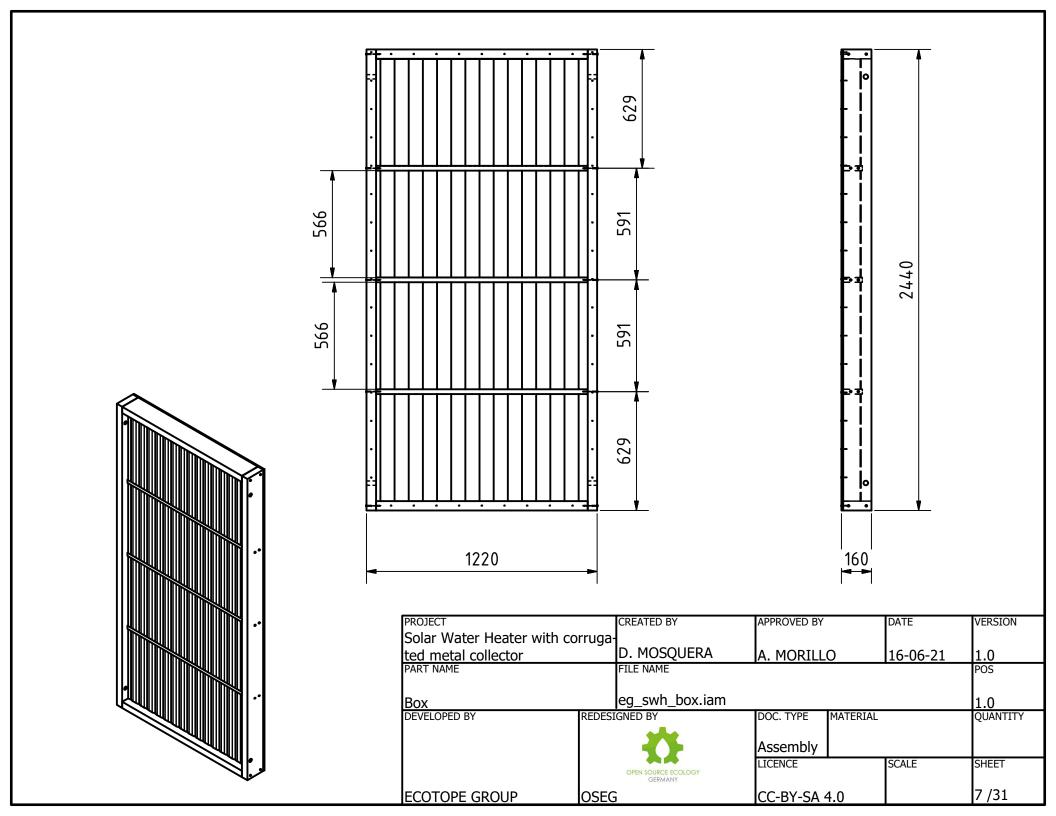
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Solar Water Heater with cor	ruga-			
ted metal collector	D. MOSQUERA	A. MORILLO	16-06-21	1.0
PART NAME	FILE NAME			POS
Parts list DEVELOPED BY	eg_swh_A1_solar-v	eg_swh_A1_solar-water-heater.xls GNED BY DOC. TYPE MATERIAL		
	435	Parts list		
		LICENCE	SCALE	SHEET
	OPEN SOURCE ECOLOGY GERMANY	LICENCE	SCALL	011221

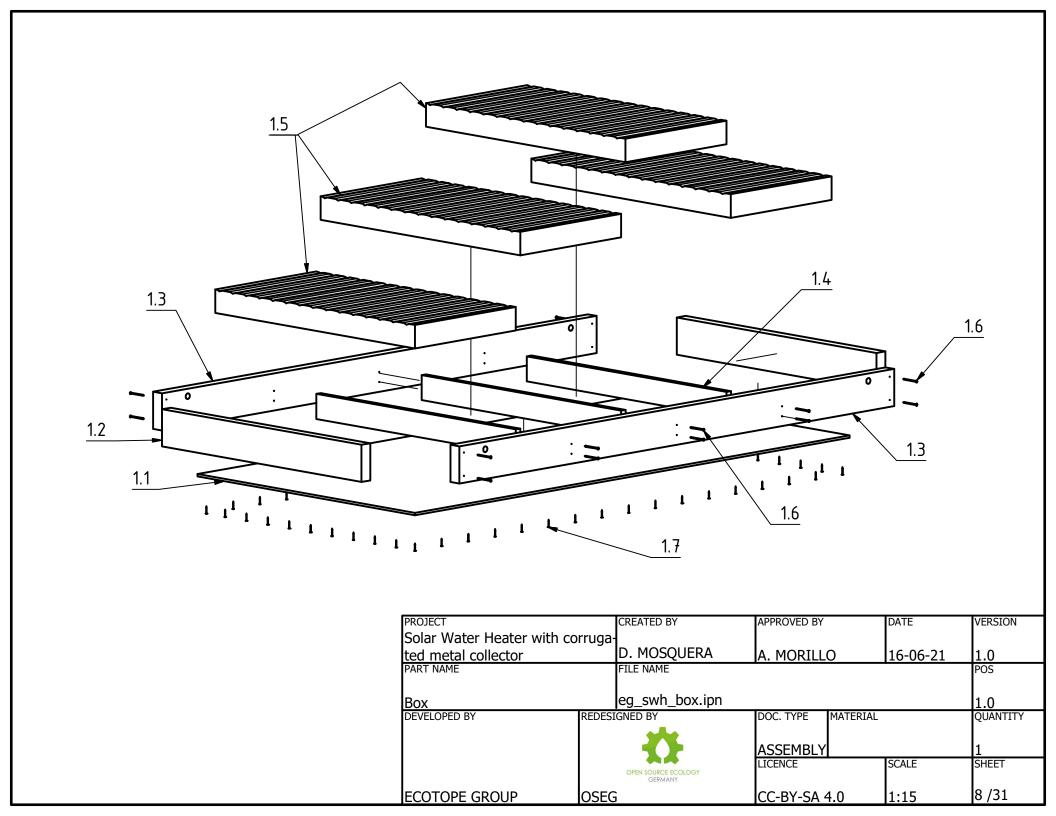
				PART LIST			
POS	POS.OLD	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
4.4		2	Wood strip long	eg_swh_wood-2450x3.ipt	Production	Wood	25
4.5		2	Neoprene gasket	eg_swh_neoprene-gasket.ipt	Production	Rubber	26
4.6		3	Neoprene gasket	eg_swh_neoprene-gasket2.ipt	Production	Rubber	27
4.7		1	Glasing sheet	eg_swh_glasing-sheet.ipt	Production	thicknes=5,0 , Glass	28
4.8		2	Angle lateral	eg_swh_angle2x3-2.ipt	Production	rolled angle 2x3 thickness=2,5, Steel A36	29
4.9		1	Angle short	eg_swh_angle2x3.ipt	Production	rolled angle 2x3 thinckess: 2,5, Steel A36	30
4.10		6	Mirror clip	eg_swh_mirror-clip.ipt	Production	Steel C45	31
4.11		12	Woodscrew12.ipt	eg_swh_woodscrew12.ipt	Standard	Woodscrew12.ipt, DIN 96 4x20	
	4.12	20	Woodscrew8	Woodscrew8.ipt	Standard	Woodscrew8, Screw DIN 96 4x20	

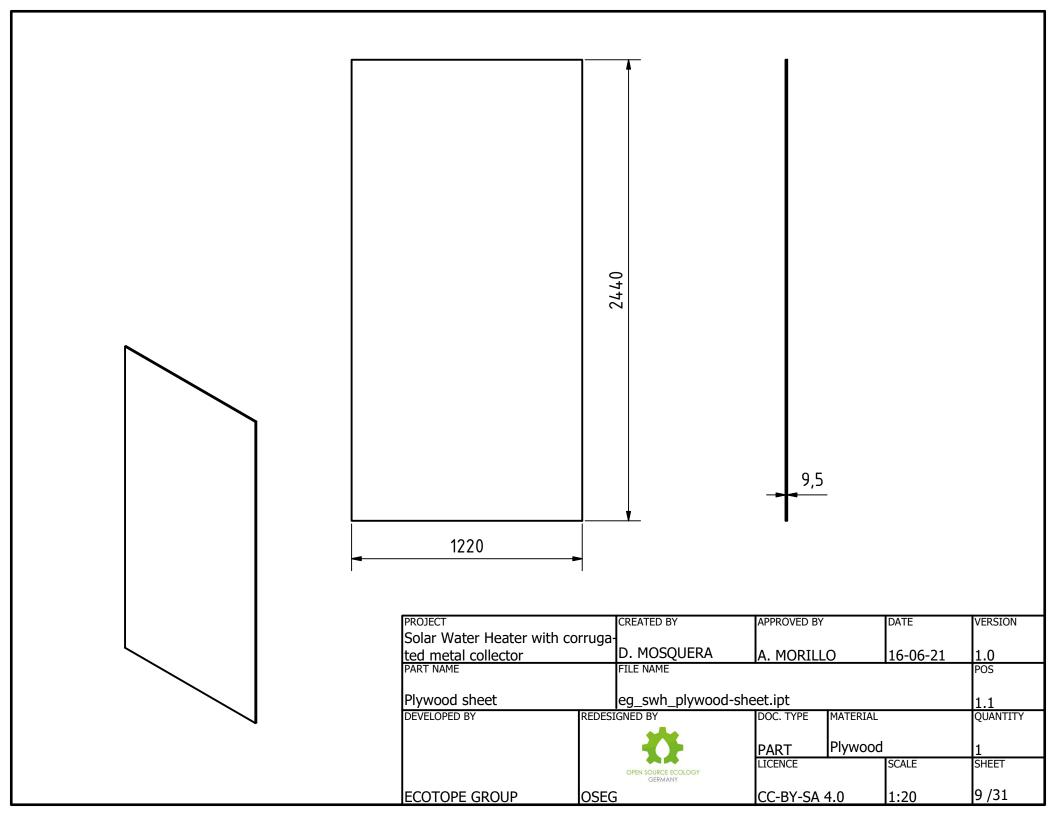
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Solar Water Heater with corru	ga-			
ted metal collector	D. MOSQUERA	A. MORILLO	16-06-21	1.0
PART NAME	FILE NAME			POS
PART LIST	eg_swh_A1_solar-w	ater-heater.xls		B2
DEVELOPED BY RED	ESIGNED BY	DOC. TYPE MATI	ERIAL	QUANTITY
		PART LIST		
	OPEN SOURCE ECOLOGY	LICENCE	SCALE	SHEET
	GERMANY			
ECOTOPE GROUP OS	EG	CC-BY-SA 4.0		5 /31

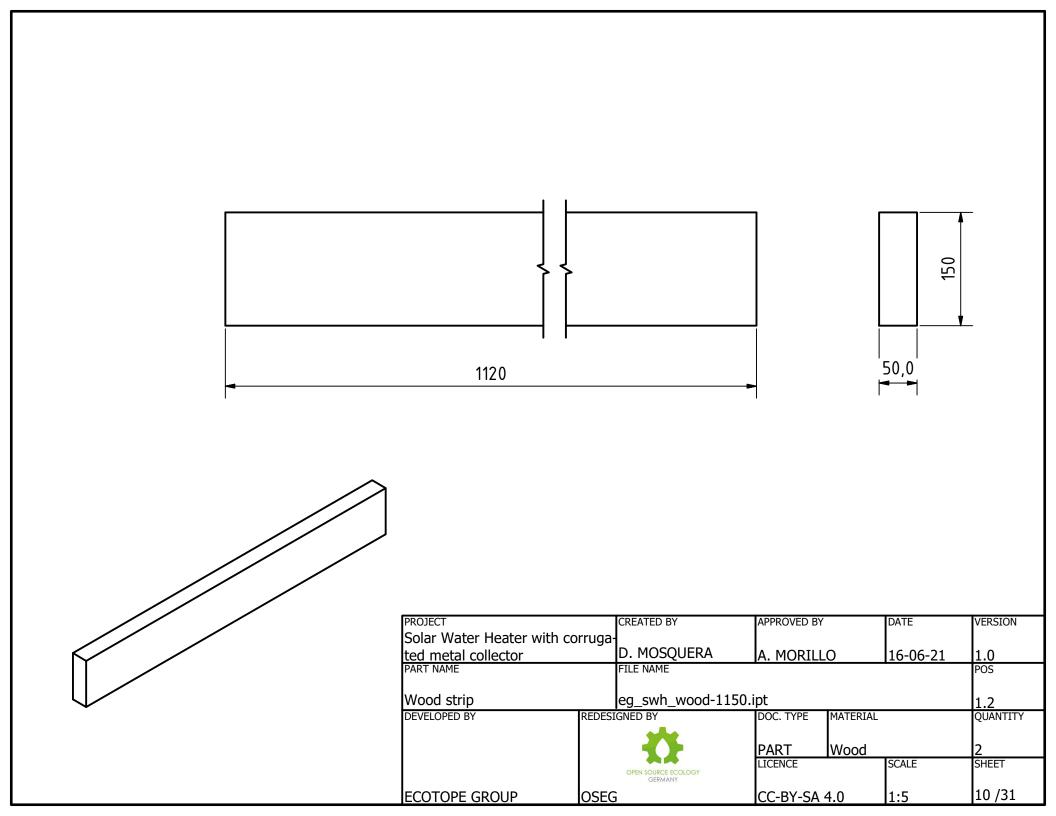
	TECHNICL NOTES
NOTES	CONTENT
GENERAL NOTES	
Metal structure treatment	Iron structures should be painted to prevent rust and improve equipment life. - Remove loose rust with a wire brush, sandpaper or chemical rust remover. - If applicable, sand areas where paint is chipping until surface is smooth. - Remove dust or oil with a degreaser or denatured alcohol. - Prime surface to protect against rust and corrosion
Wood treatment	- The wood must be treated with pesticides and kiln-dried to ensure adequate humidity Wood sealer should be applied for later use.
•••	···

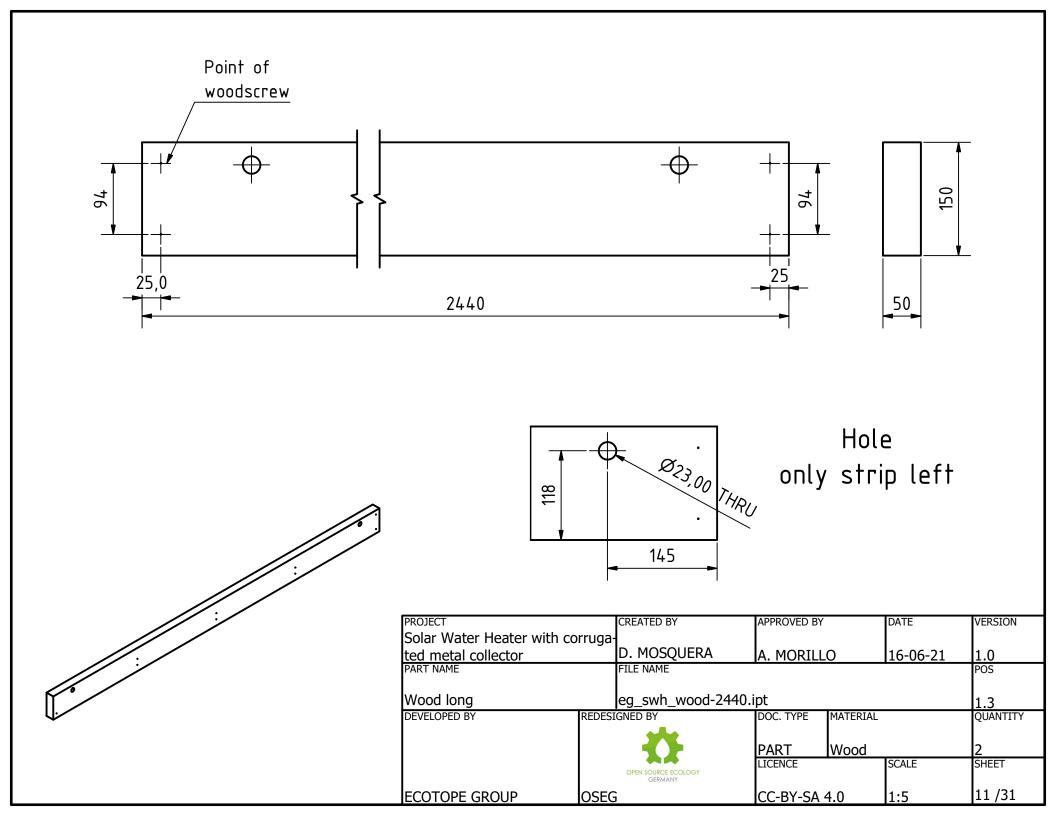
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Solar Water Heater with cor	ruga-			
ted metal collector	D. MOSQUERA	A. MORILLO	16-06-21	1.0
PART NAME	FILE NAME			POS
TECH NOTES				C1
DEVELOPED BY	REDESIGNED BY	DOC. TYPE MATERI	AL	QUANTITY
		TECH		
		NOTES		
	OPEN SOURCE ECOLOGY	LICENCE	SCALE	SHEET
	GERMANY			
ECOTOPE GROUP	OSEG	CC-BY-SA 4.0		6 /31

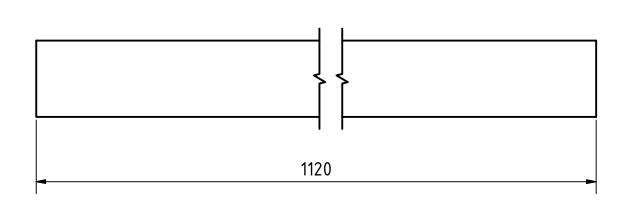


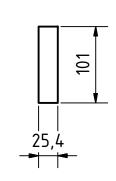


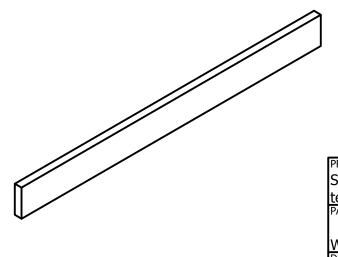




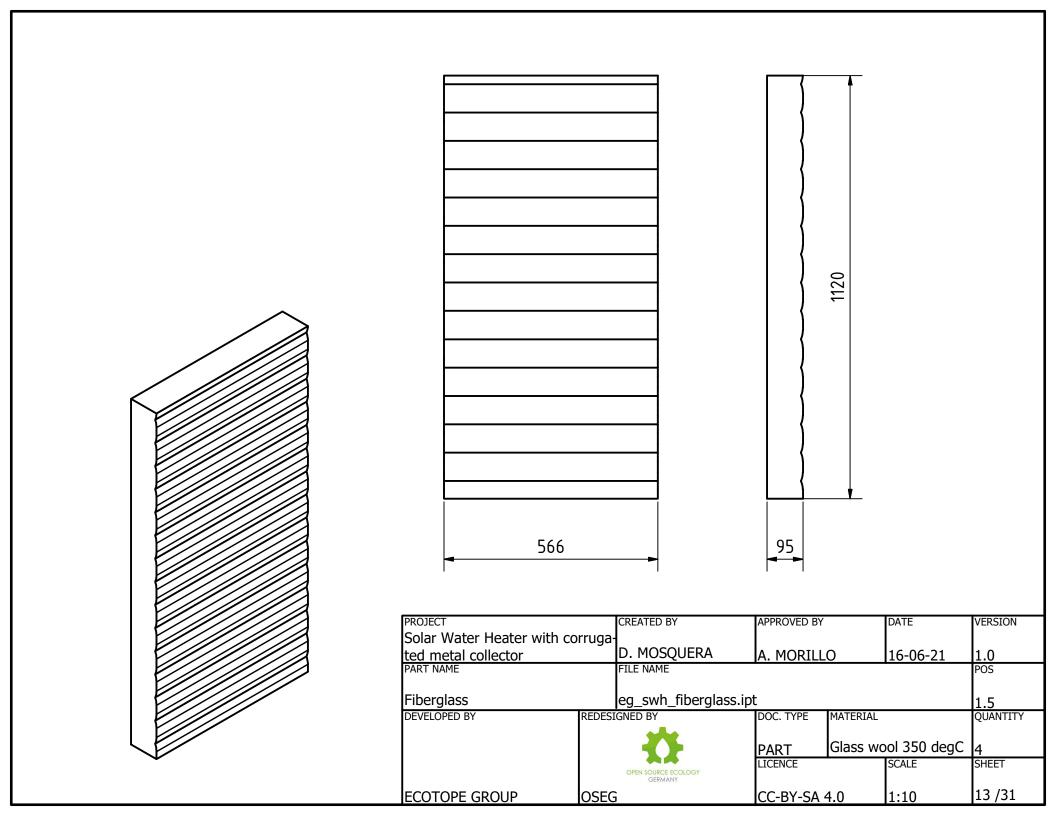


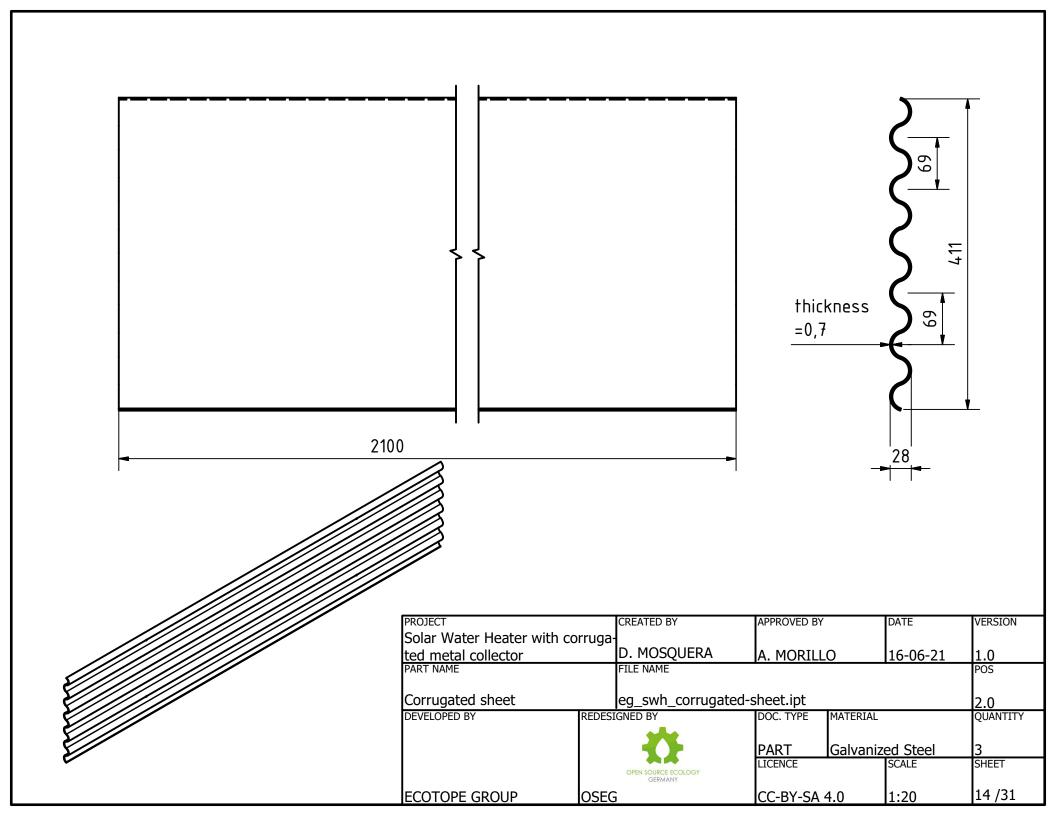


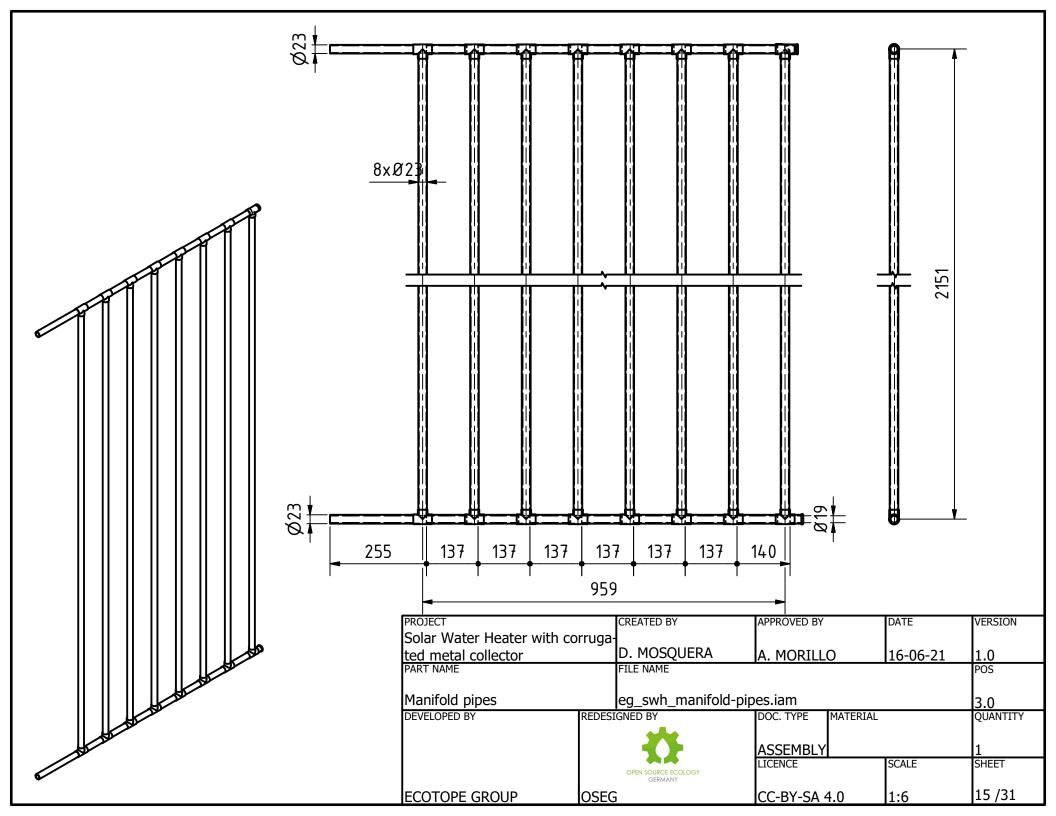


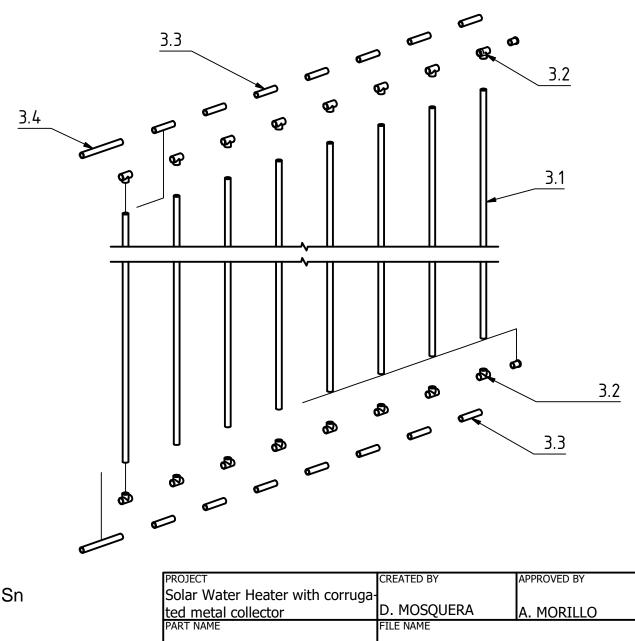


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PROJECT		CREATED BY	APPROVED BY	APPROVED BY		VERSION
Solar Water Heater with co						
ted metal collector		D. MOSQUERA	A. MORILL	.0	16-06-21	1.0
PART NAME		FILE NAME	-			POS
Wood Brace		eg_swh_wood-brace-	·1120.ipt			1.4
DEVELOPED BY	REDESI	GNED BY	DOC. TYPE	MATERIAL		QUANTITY
		405	PART	Wood		3
		OPEN SOURCE ECOLOGY	LICENCE		SCALE	SHEET
		GERMANY				
ECOTOPE GROUP	OSEG		CC-BY-SA	4.0	1:5	12 /31



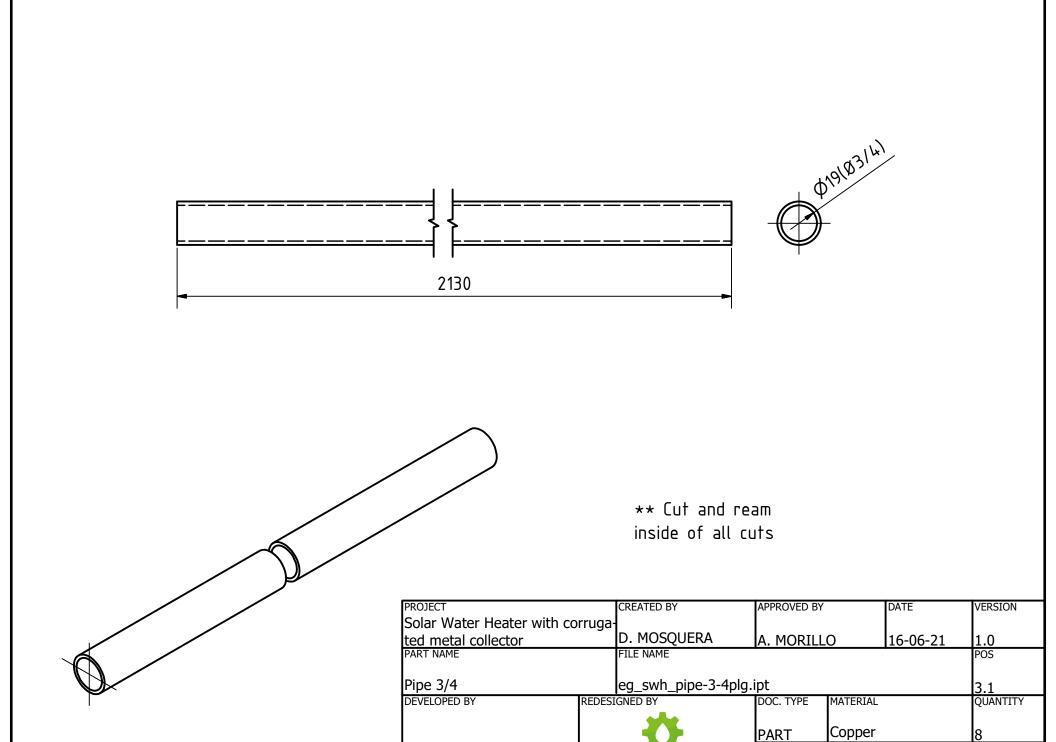






Autogenous solder 50% Sn

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Solar Water Heater with cor	ruga-			
ted metal collector	D. MOSQUERA	A. MORILLO	16-06-21	1.0
PART NAME	FILE NAME			POS
l., ., ., .				
Manifold pipes	eg_swh_manifold-	pipes.ipn		3.0
DEVELOPED BY	REDESIGNED BY	DOC. TYPE MATERIAL	-	QUANTITY
	2/4			
		ASSEMBLY		1
	OPEN SOURCE ECOLOGY	LICENCE	SCALE	SHEET
	GERMANY			
ECOTOPE GROUP	OSEG	CC-BY-SA 4.0	1:20	16 /31



ECOTOPE GROUP

OSEG

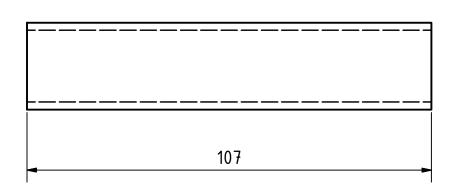
SCALE

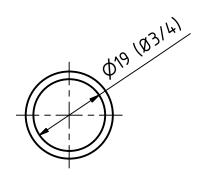
LICENCE

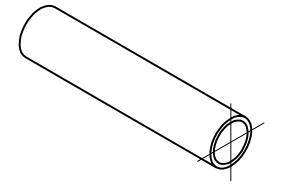
CC-BY-SA 4.0

SHEET

17 /31

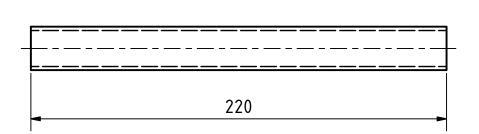


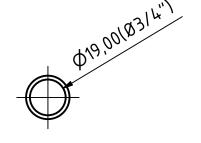


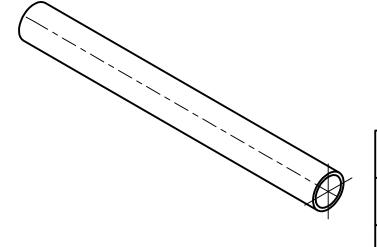


NOTE: Measure between tees to check nipple length. allowing for socket distance inside tees. cut, clean, ream and flux 3/4" nipples and fit into tees to form manifold.

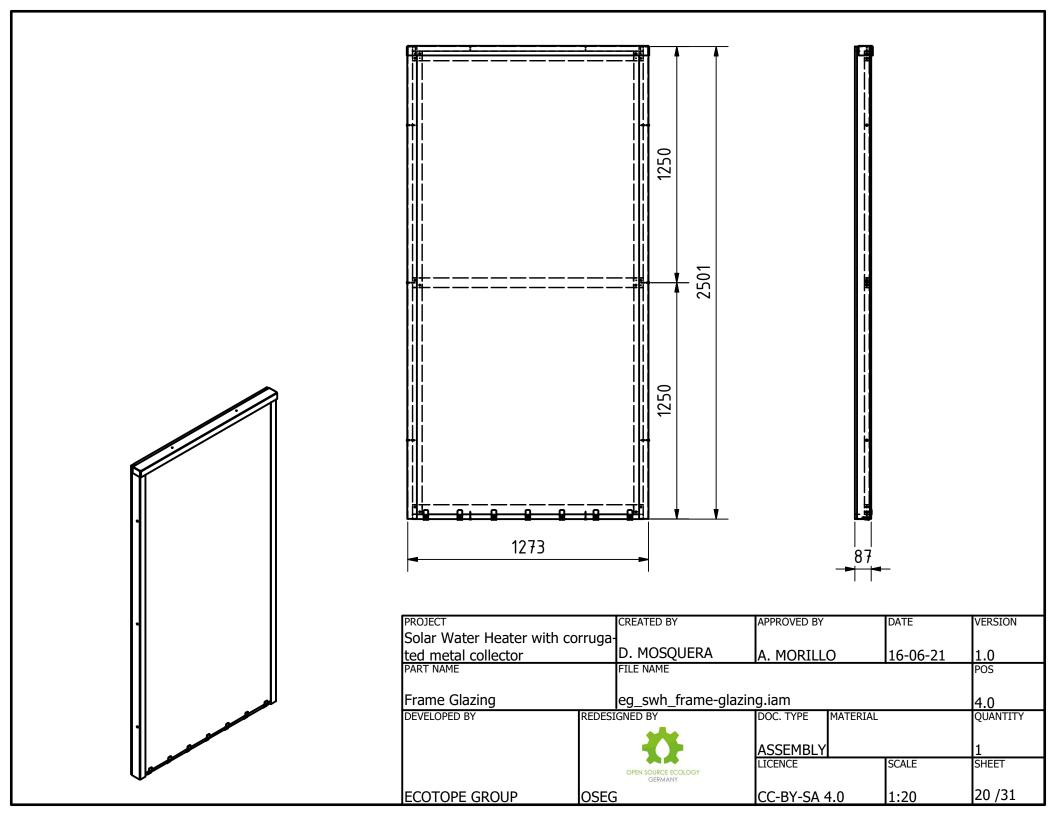
PROJECT	CREATED BY	APPROVED BY	,	DATE	VERSION	
Solar Water Heater with corru	uga-					
ted metal collector	D. MOSQUERA	A. MORILL	.0	16-06-21	1.0	
PART NAME	FILE NAME	-		-	POS	
Niple 3/4	eg_swh_niple-3-4plg	eg_swh_niple-3-4plg.ipt				
DEVELOPED BY RE	DESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY	
	**	PART	Copper		14	
	OPEN SOURCE ECOLOGY GERMANY	LICENCE		SCALE	SHEET	
ECOTOPE GROUP O	SEG	CC-BY-SA	4.0	1:1	18 /31	

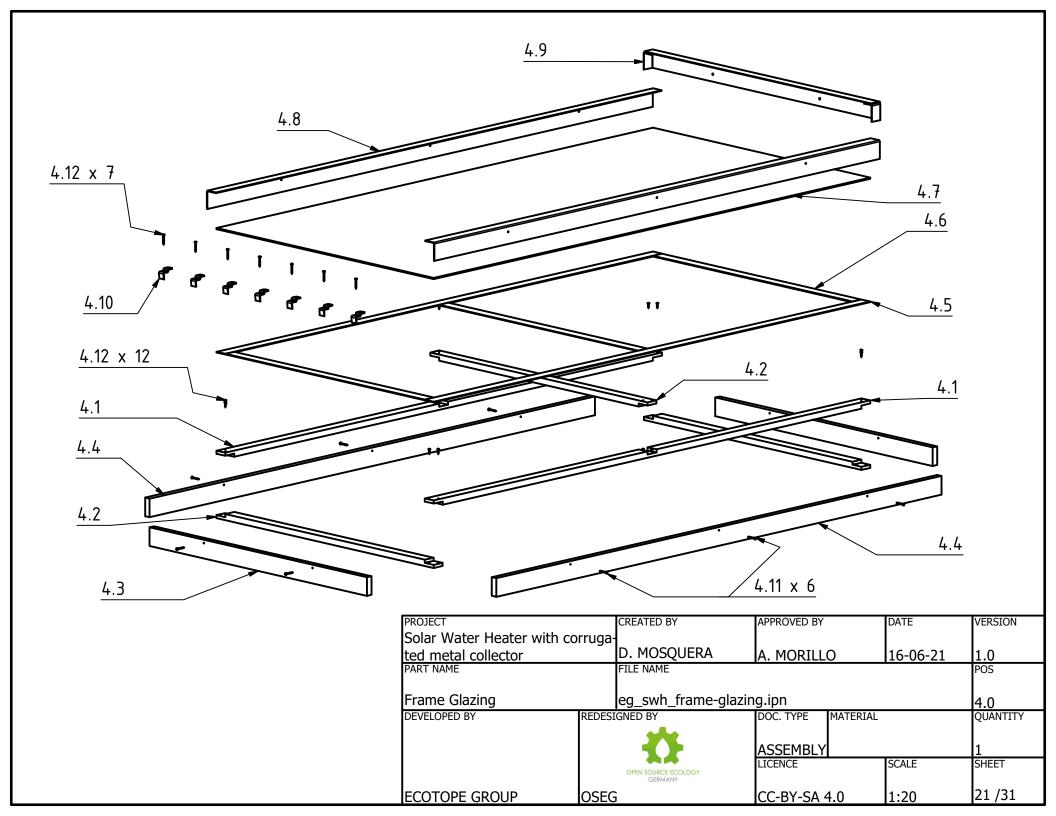


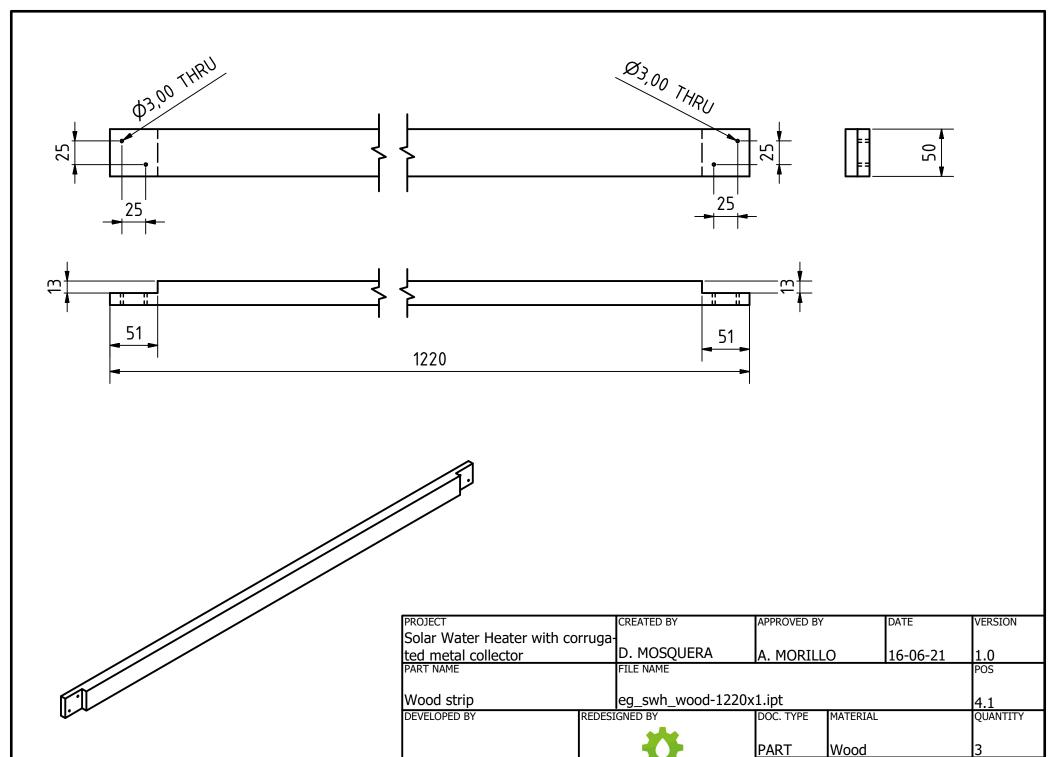




PROJECT		CREATED BY	APPROVED BY		DATE	VERSION	
Solar Water Heater with co							
ted metal collector		D. MOSQUERA	A. MORILL	.0	16-06-21	1.0	
PART NAME	·	FILE NAME				POS	
2do niple 3/4		eg_swh_2niple-3-4pl	g_swh_2niple-3-4plg.ipt 3.				
DEVELOPED BY	REDESI	GNED BY	DOC. TYPE	MATERIAL		QUANTITY	
		and the					
			PART	Copper		2	
		ODEN COURSE FOOLOGY	LICENCE		SCALE	SHEET	
		OPEN SOURCE ECOLOGY GERMANY					
ECOTOPE GROUP	OSEG	ì	CC-BY-SA	4.0	2:1	19 /31	







ECOTOPE GROUP

OSEG

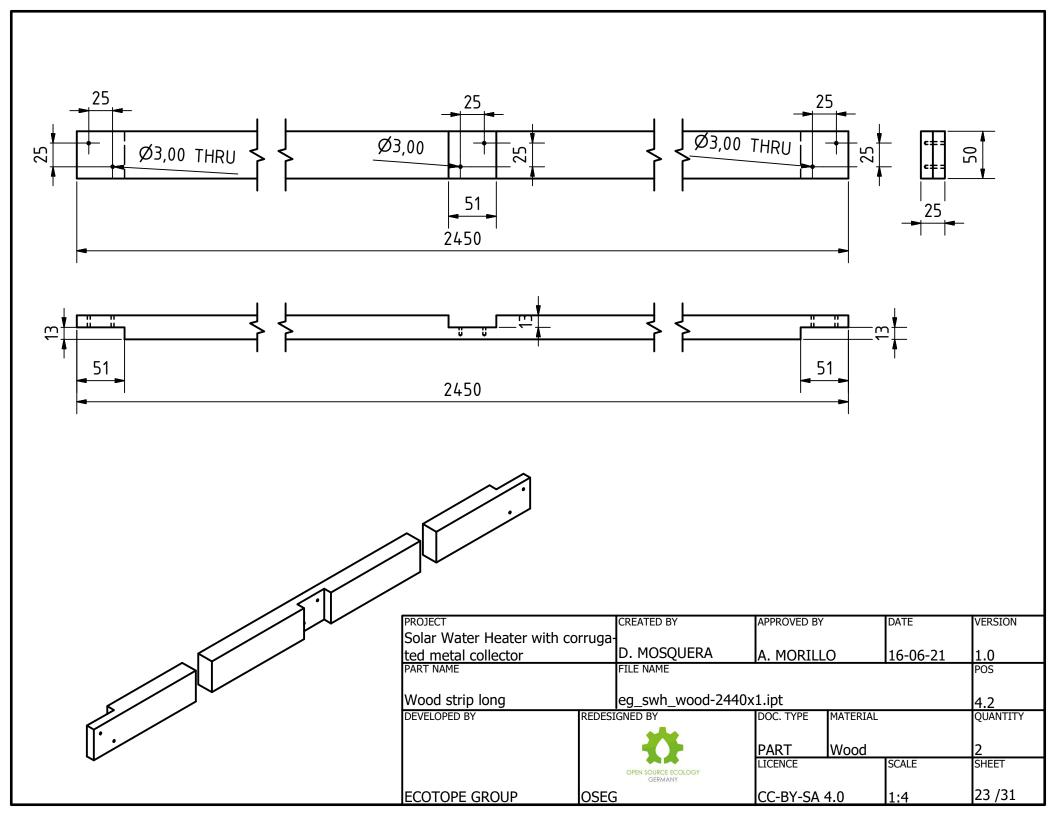
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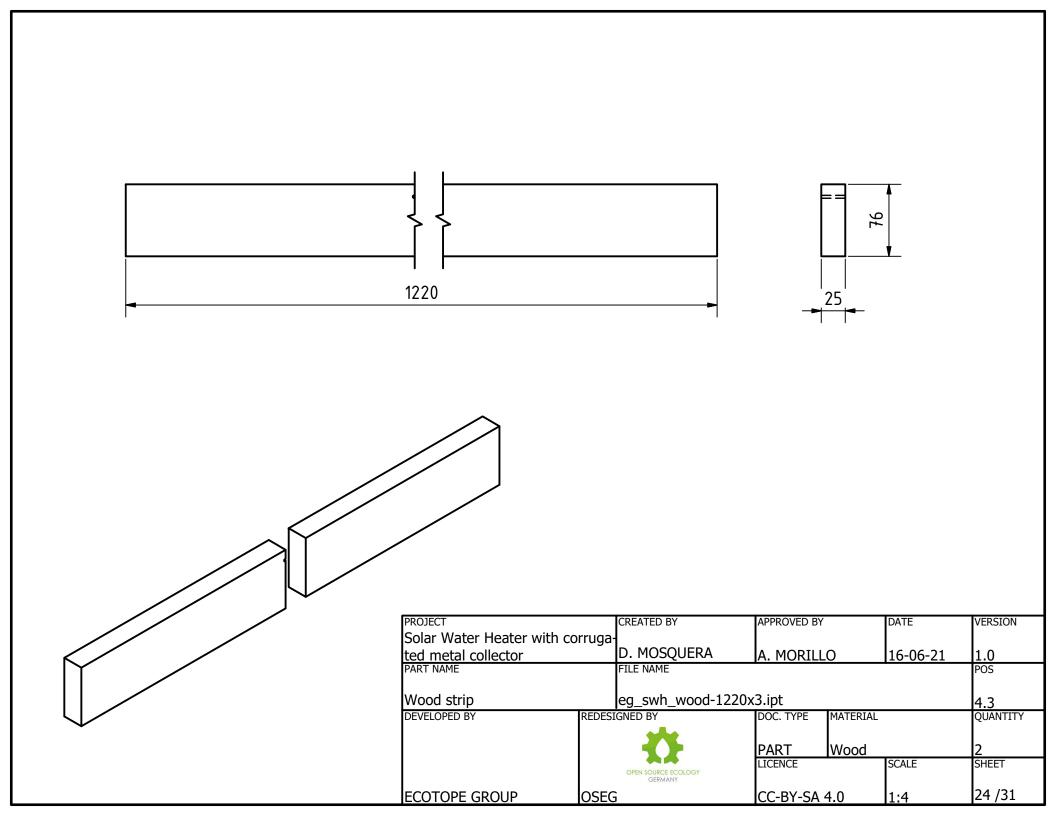
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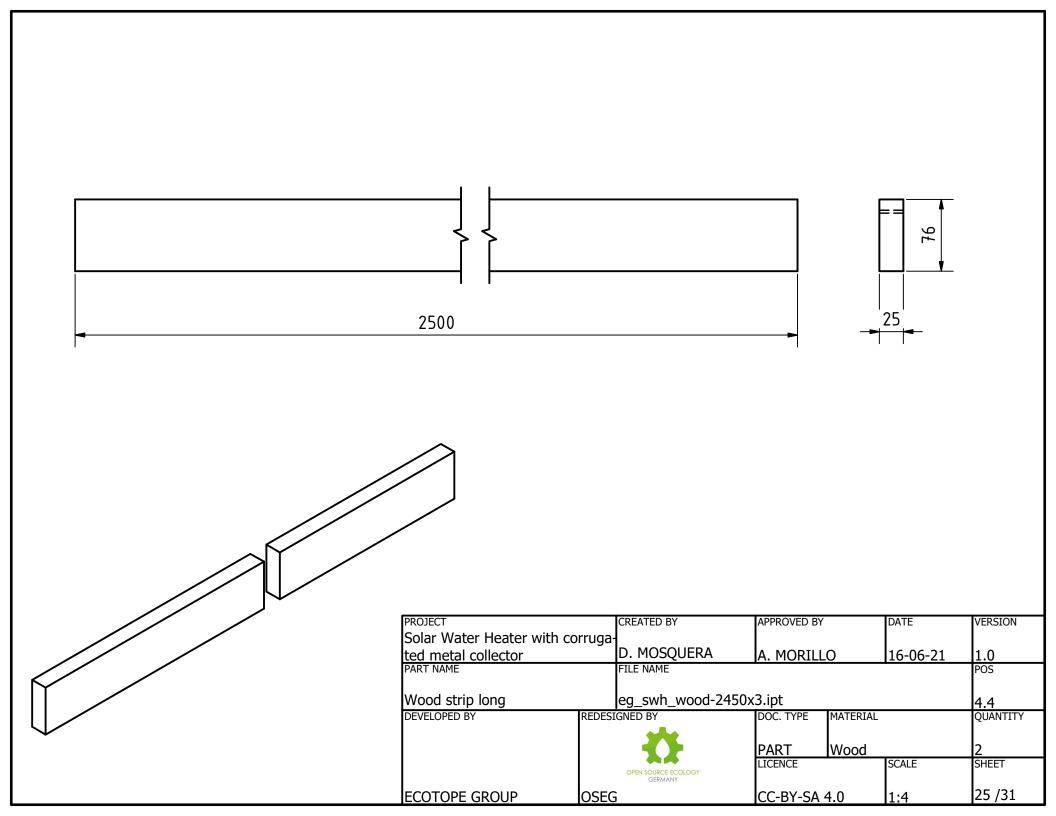
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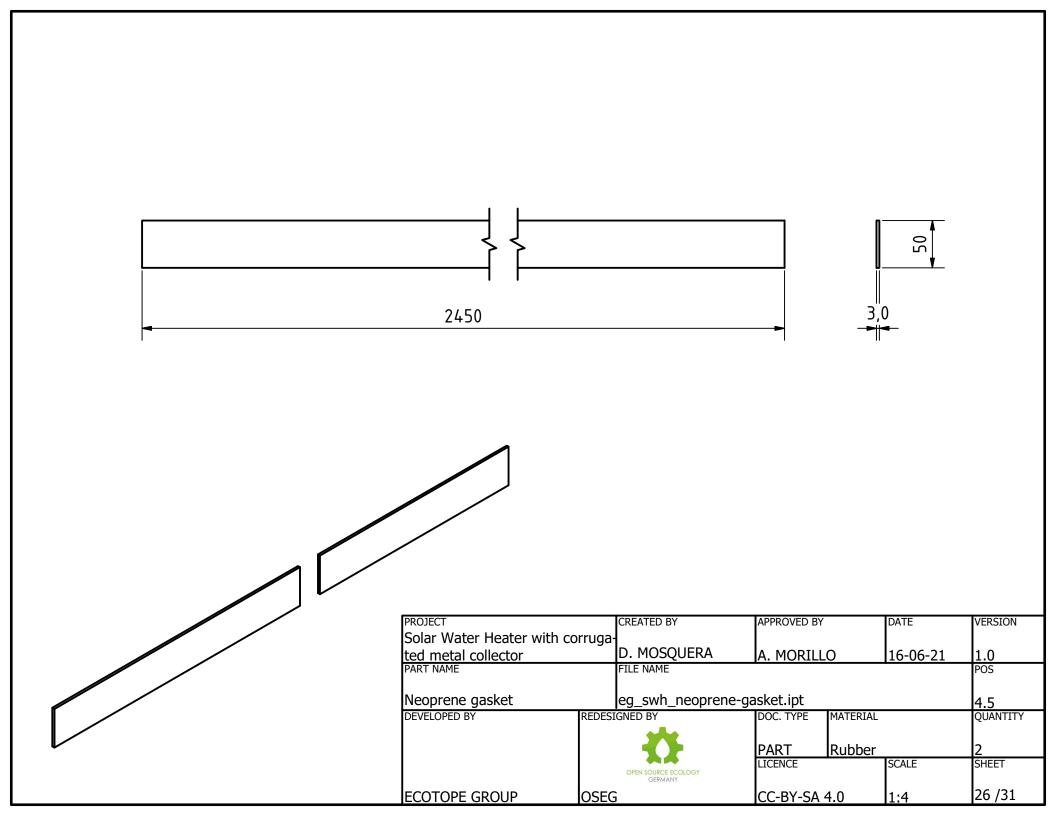
SHEET

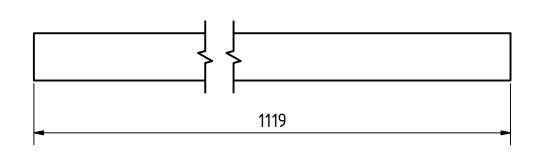
22 /31

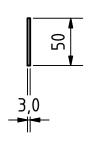












PROJECT		CREATED BY	APPROVED B	Y	DATE	VERSION
Solar Water Heater w ted metal collector		D. MOSQUERA	A. MORIL	10	16-06-21	1.0
PART NAME		FILE NAME	/ I TIOILE		10 00 21	POS
Neoprene gasket sho	rt	eg_swh_neoprene	-gasket2.ipt			4.6
DEVELOPED BY	REDESI	GNED BY	DOC. TYPE	MATERIAL		QUANTIT
		47	PART	Rubber		3
		OPEN SOURCE ECOLOGY GERMANY	LICENCE		SCALE	SHEET
ECOTOPE GROUP	OSEG	ì	CC-BY-SA	4.0	1:4	27 /31

