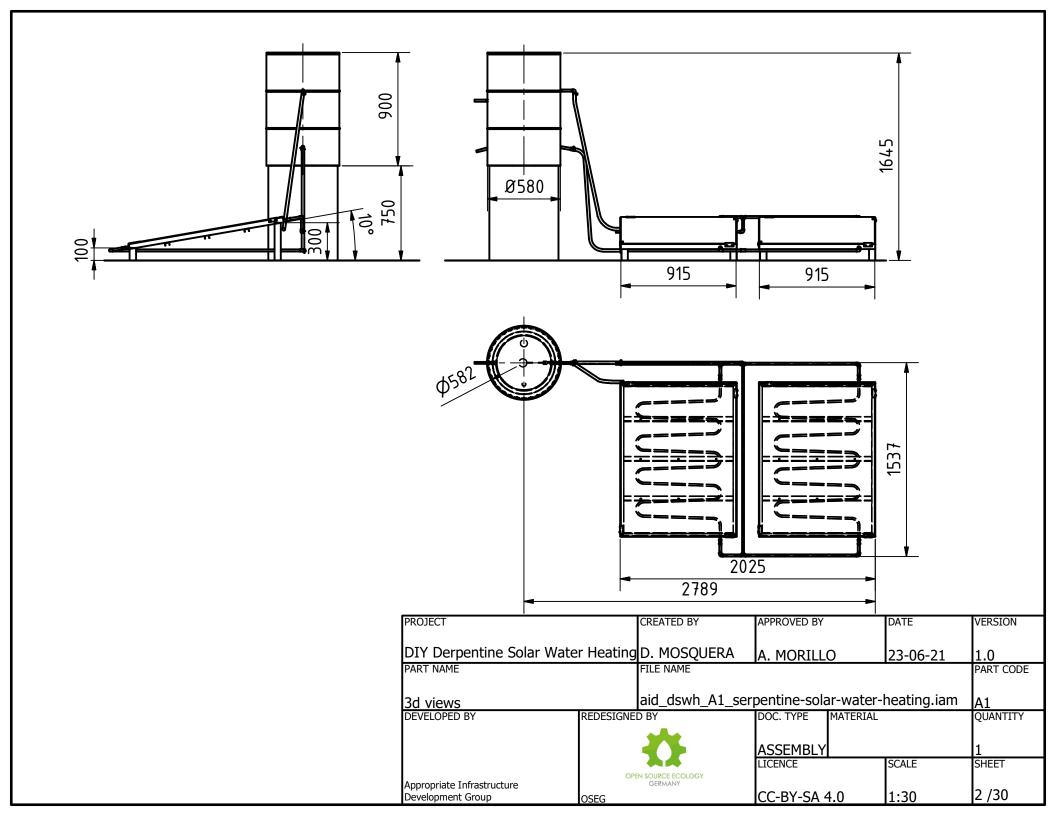
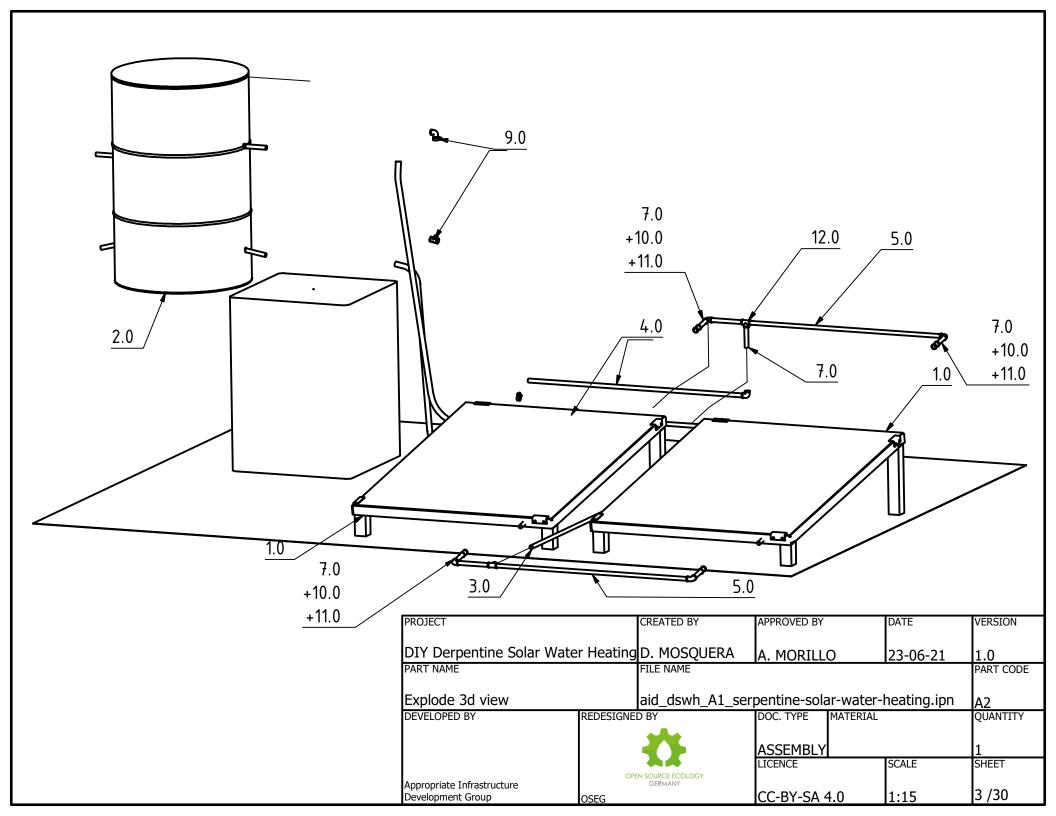


PROJECT	C	CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Wate	5		A. MORILL	0	23-06-21	1.0
PART NAME	F	FILE NAME				PART CODE
3d views	ā	aid_dswh_A1_ser	pentine-sola	ar-water-	heating.iam	A1
DEVELOPED BY	REDESIGNED) BY	DOC. TYPE	MATERIAL		QUANTITY
		ste				
	1		ASSEMBLY		-	1
			LICENCE		SCALE	SHEET
Appropriate Infrastructure	OPEN	SOURCE ECOLOGY GERMANY				
Development Group	OSEG		CC-BY-SA 4	1.0	1:20	1 /30





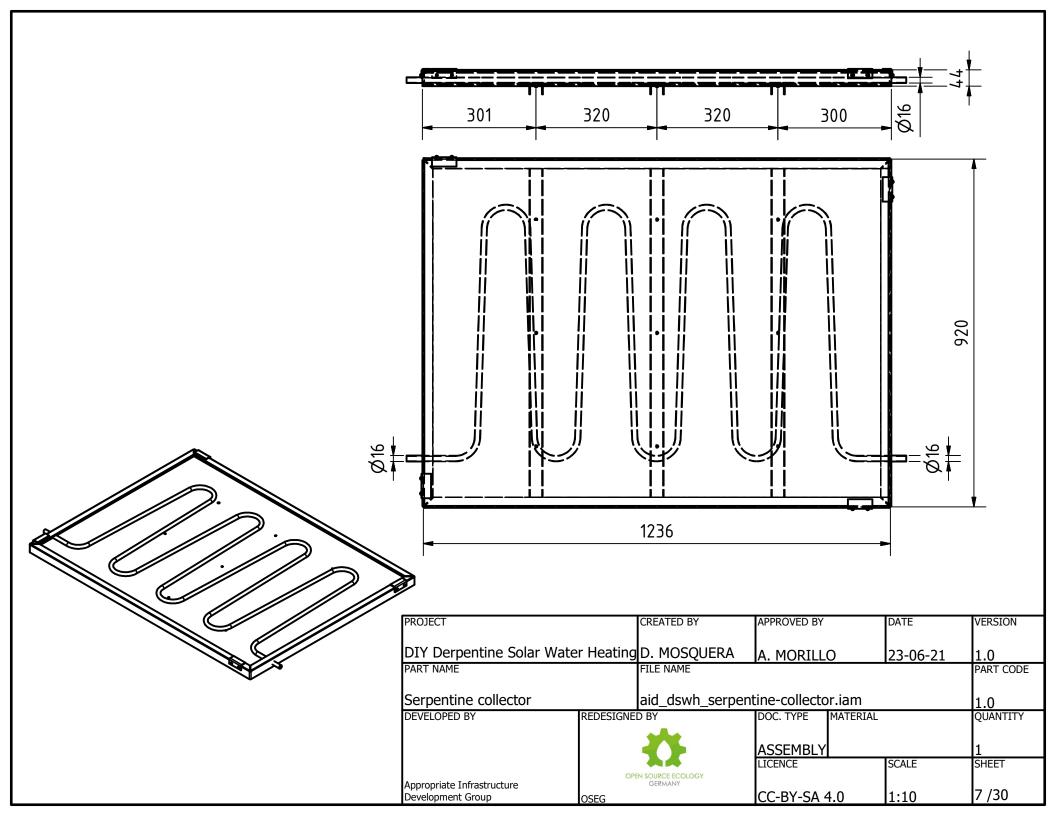
			PART LIST			
POS	POS.OLD QT	Y PART NAME	FILE NAME	PART TYP	SPECIFICATIONS	SHEET
A1	1	3d views	aid_dswh_A1_serpentine-solar-water-heating.iam			1
A1	1	3d views	aid_dswh_A1_serpentine-solar-water-heating.iam			2
A2		Explode 3d view	aid_dswh_A1_serpentine-solar-water-heating.ipn			3
B1		PART LIST				4
B2		PART LIST				5
C1		TECH NOTES				6
1.0	1	Serpentine collector	aid_dswh_serpentine-collector.iam			7
1.0	1	Serpentine collector	aid_dswh_serpentine-collector.ipn			8
1.1	1	Backing plate	aid_dswh_backing-plate.ipt	Production	Galvanized Steel	9
1.2	1	sections continuous	aid_dswh_sections-continuous.ipt	Production	U profile, Galvanized Steel #20	10
1.3	1	Top section	aid_dswh_top-section.ipt	Production	U profile, Galvanized Steel #20	11
1.4	3	Spacers	aid_dswh_spacers.ipt	Production	U profile, Galvanized Steel #20	12
1.5	1	Zig-zag 1/2 " pipe	aid_dswh_absorber-pipe-1-2.ipt	Production	pipe sch:1mm, Galvanized Steel	13
1.6	1	Ter-flex frame	aid_dswh_ter-flex-frame.ipt	Production	rubber	14
1.7	1	ter-flex backing	aid_dswh_ter-flex-backing.ipt	Standard	ter-flex backing, Rubber	
1.8	1	cover glass	aid_dswh_cover-glass.ipt	Production	Glass	15
1.9	4	angle 25 x 25	aid_dswh_angle25.ipt	Production	Steel C45	16
1.10	18	Rivet-6x6x3	aid_dswh_rivet-6x6x3.ipt	Standard	Rivet-6x6x3	
2.0	1	Hot water tank	aid_dswh_hot-water-tank.iam			17
2.0	1	hot water tank	aid_dswh_hot-water-tank.ipn			18
2.1	1	Metal drum	aid_dswh_metal-drum-55g.ipt	Production		19
2.2	2	Ter-flex up tank	aid_dswh_ter-flex-up-tank.ipt	Production	Termaflex	20
2.3	1	Ter flex tank	aid_dswh_ter-flex-tank.ipt	Production	Termaflex	21
2.4	1	barrel plastic + lid	aid_dswh_barrel-tank-35g.ipt	Production	HDPE	22
2.5	1	Cover metal drum	aid_dswh_cover-metal-drum-55g.ipt	Production		23
2.6	2	adaptor 1/2"	aid_dswh_adaptor-1-2ipt	Standard	threaded adaptor de PVC DN1/2"	
2.7	2	Rubber seals	aid_dswh_rubber-seals.ipt	Production	Rubber	24
2.8	4	Nipple 1/2"	aid_dswh_nipple-1-2.ipt	Standard	threaded coupling Galvanized steel,sch40	
2.9	4	Pipe 1/2 plg	aid_dswh_pipe-1-2plgx150.ipt	Production	Long 150 mm, Glvanized Steel, sch40	25
3.0	1	pipe 1/2"x1510	aid_dswh_pipe-1-2plgx1510.ipt	Production	Pipe PVC,sch40	26
4.0	2	Pipe 1/2" x1000	aid_dswh_pipe-1-2plgx1000.ipt	Production	Pipe PVC,sch40	27
5.0	2	Pipe 1/2"x900	aid_dswh_pipe-1-2plgx900.ipt	Production	Pipe PVC,sch40	28
				REATED BY		ERSION
			DIY Derpentine Solar Water Heating		A. MORILLO 23-06-21 1	.0
						ART CODE
			PART LIST		В	1
			DEVELOPED BY REDESIGNED	BY	DOC. TYPE MATERIAL QI	UANTITY
				215	PART LIST	
1			OPEN		LICENCE SCALE SF	HEET
			Appropriate Infrastructure OSEG	GERMANY	CC-BY-SA 4.0 4	/30

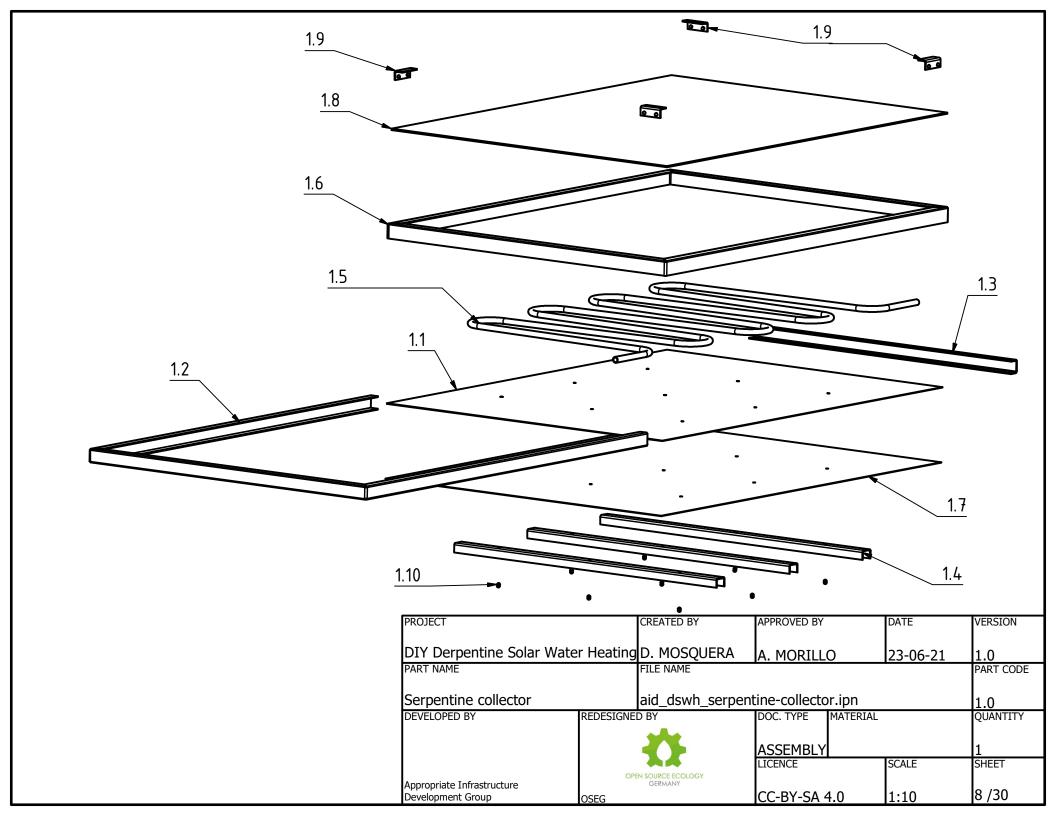
				PART LIST			
POS	POS.OLD Q	QTY	PART NAME	FILE NAME	PART TYP	SPECIFICATIONS	SHEET
6.0		2	Pipe 1/2"x350	aid_dswh_pipe-1-2plgx150.ipt	Production	Pipe PVC, sch40	29
7.0		5	pipe 1/2"x150	aid_dswh_pipe-1-2plgx100.ipt	Production	Pipe PVC, sch40	30
8.0	3,	,0m	Hose 1/2"	aid_dswh_pipe-flex-1-2.ipt	Standard	Rubber or vinyl	
9.0		4	clamp	aid_dswh_1-2hose-clamp.ipt	Standard	threaded clamp DN 1/2"	
10.0		7	Elbow 1/2"	aid_dswh_elbow-1-2.ipt	Standard	threaded Elbow DN1/2", Pipe PVC	
11.0		4	Nipple 1/2"	aid_dswh_nipple-1-2.ipt	Standard	threaded Nipple DN1/2", Pipe PVC	
12.0		2	Tee 1/2"	aid_dswh_tee-1-2.ipt	Standard	threaded Tee DN1/2", Pipe PVC	

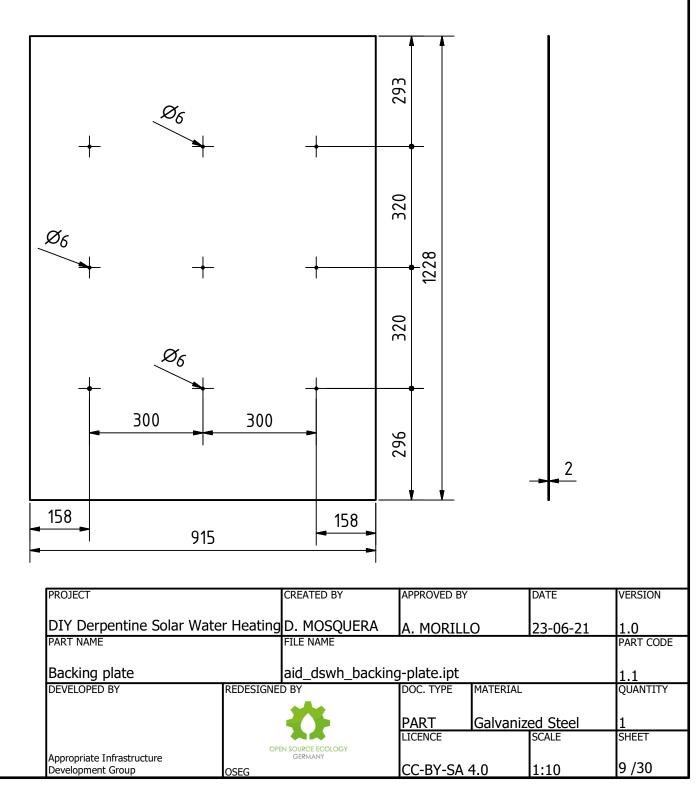
PROJECT		EATED BY	APPROVED BY D		DATE	VERSION
DIY Derpentine Solar Water Heating			A. MORILLO 23		23-06-21	1.0
PART NAME	FILI	E NAME				PART CODE
PART LIST						B2
DEVELOPED BY	REDESIGNED BY	Y	DOC. TYPE	MATERIAL		QUANTITY
	- 4	*	PART LIST			
	-		LICENCE		SCALE	SHEET
Appropriate Infrastructure		URCE ECOLOGY ERMANY				
Development Group	OSEG		CC-BY-SA 4	1.0		5 /30

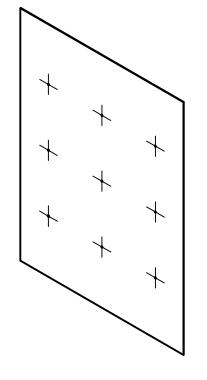
	TECHNICL NOTES
NOTES	CONTENT
GENERAL NOTES	
	Iron structures should be painted to prevent rust and improve equipment life.
	- Remove loose rust with a wire brush, sandpaper or chemical rust remover.
Metal structure treatment	- If applicable, sand areas where paint is chipping until surface is smooth.
	- 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.
	- The anchorage can be bolted with expansive ramplugs or welded.
1	

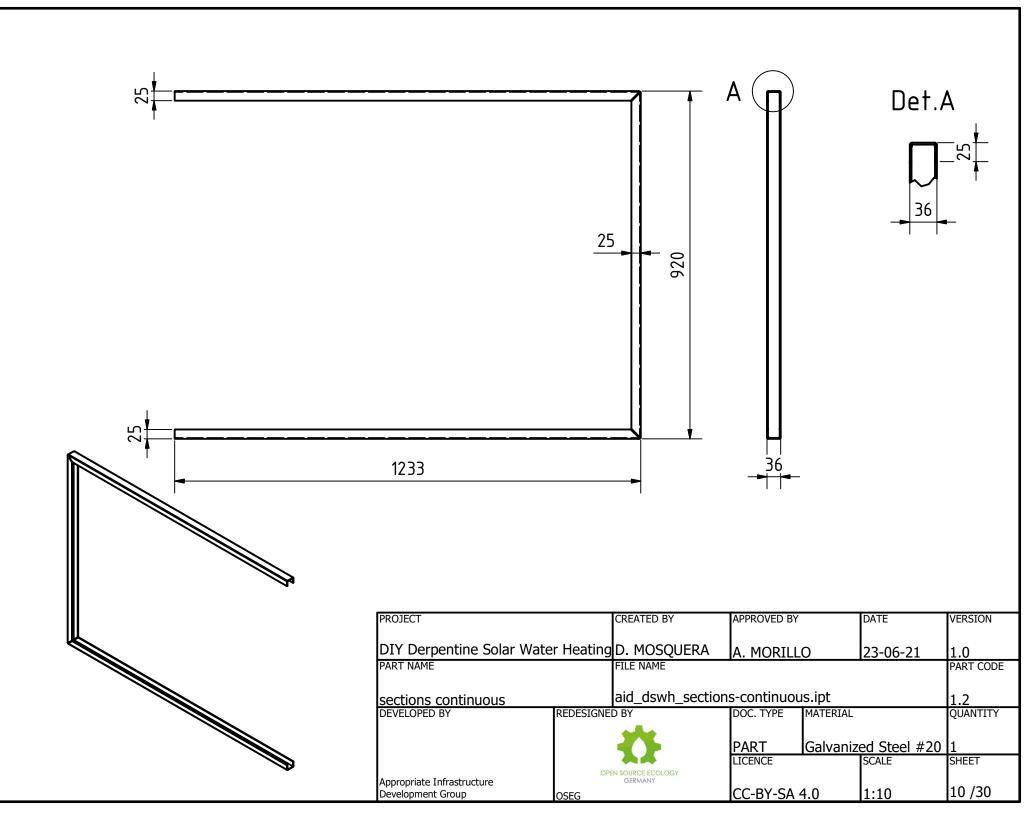
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
	ter Heating D. MOSQUERA	A. MORILLO	23-06-21	1.0
PART NAME	FILE NAME			PART CODE
TECH NOTES				C1
DEVELOPED BY	REDESIGNED BY		TERIAL	QUANTITY
		TECH		
		NOTES LICENCE	SCALE	SHEET
Appropriate Infrastructure	OPEN SOURCE ECOLOGY GERMANY			
Development Group	OSEG	CC-BY-SA 4.0)	6 /30

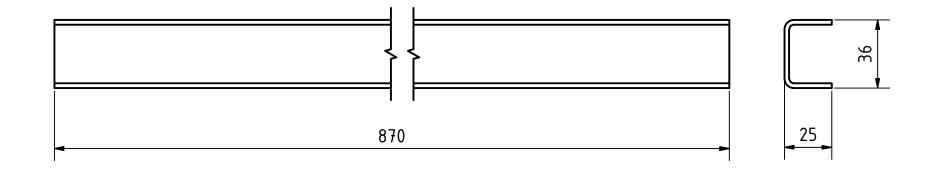






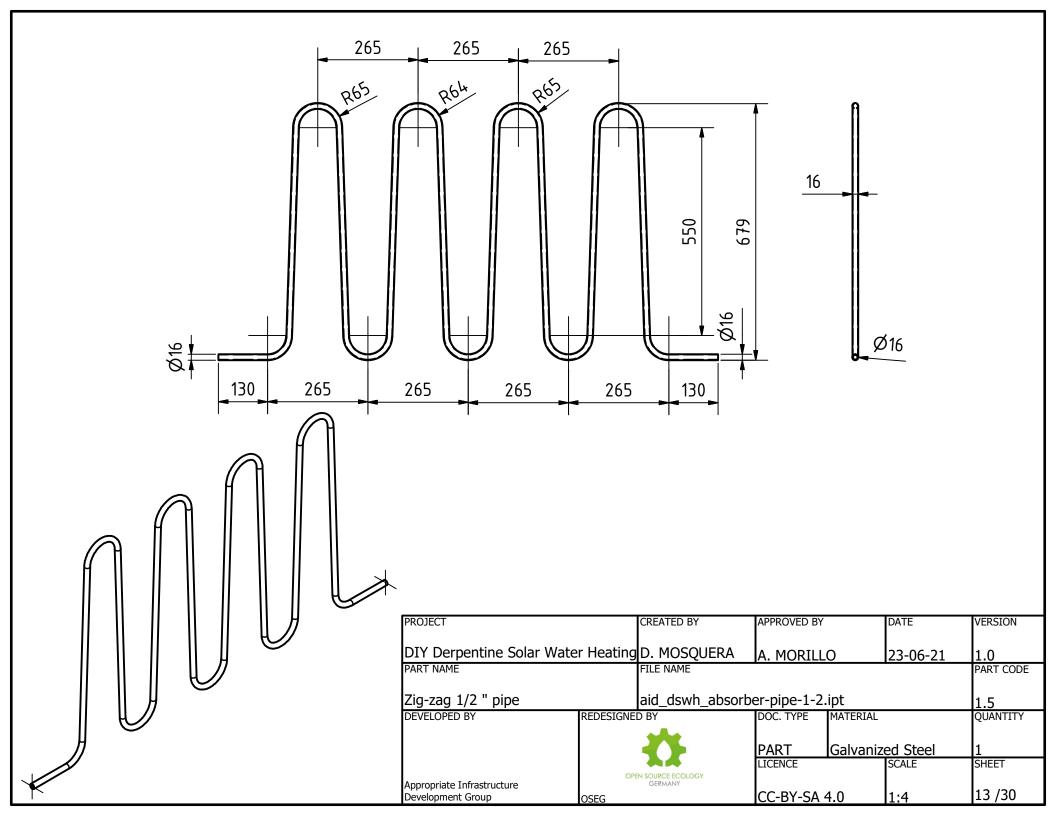


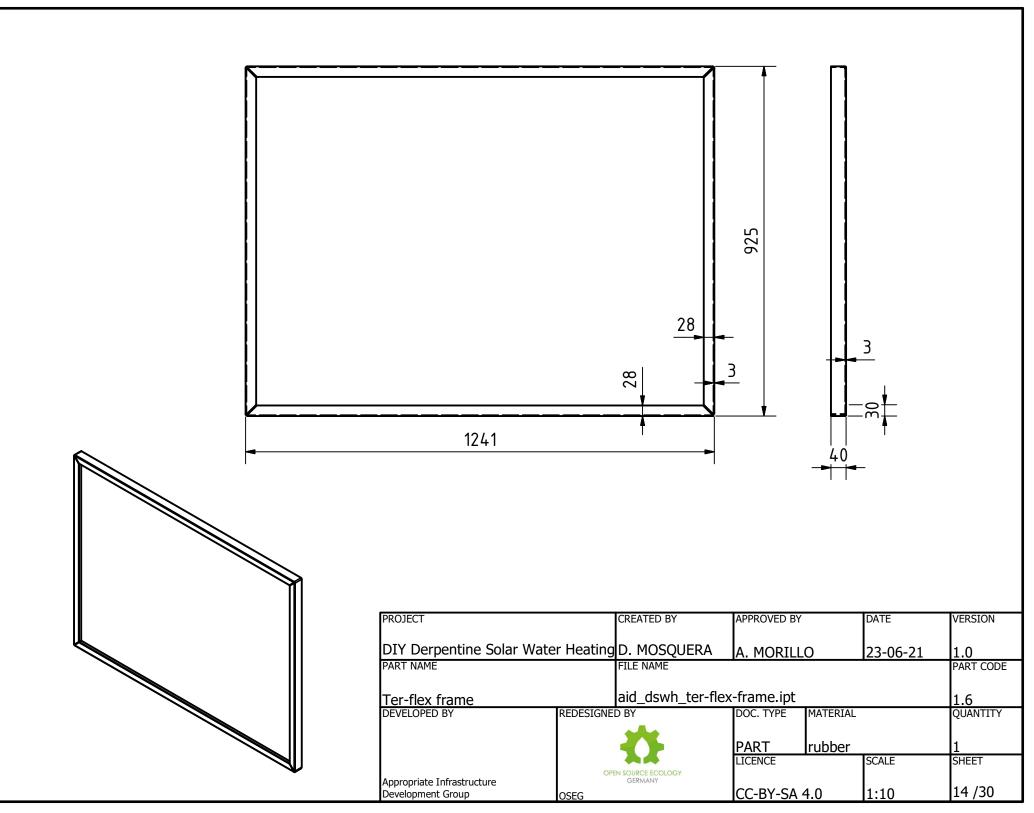


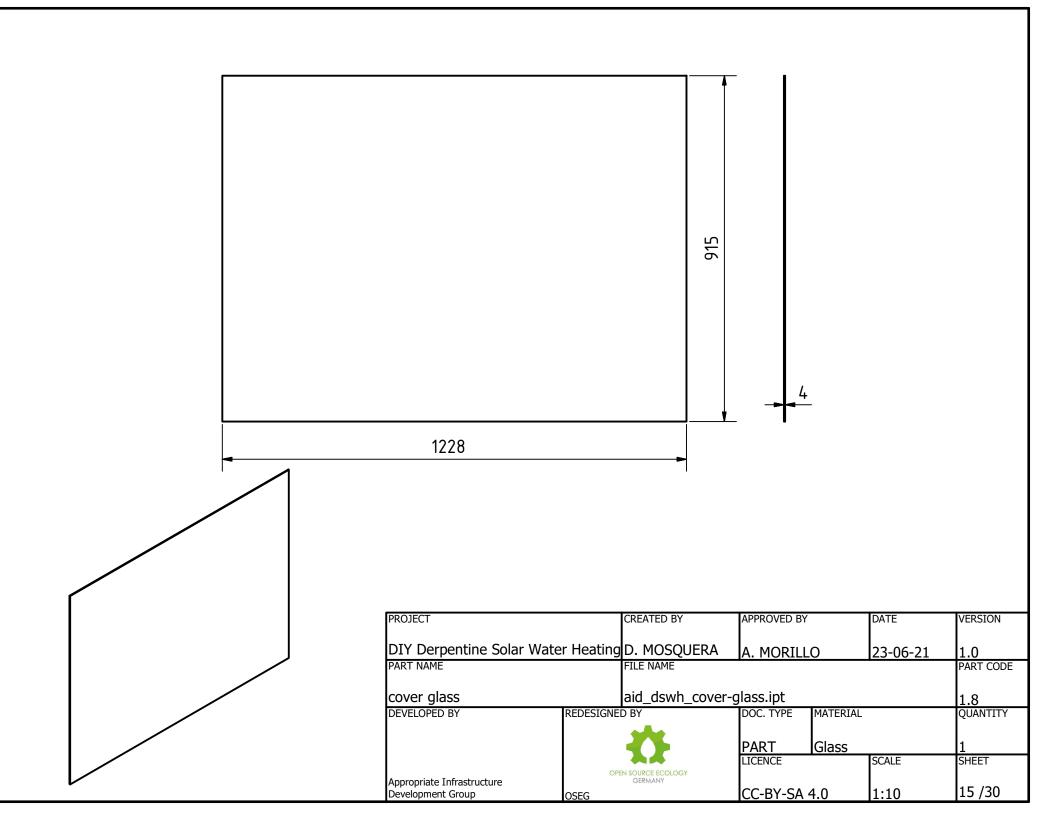


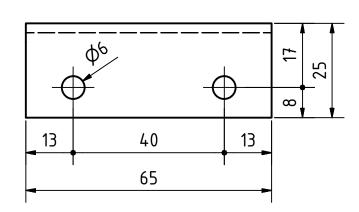
PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Wate	r Heating		A. MORILL	\sim	23-06-21	1 0
	rifedding		A. MORILL	.0	23-00-21	1.0
PART NAME		FILE NAME				PART CODE
Top section		aid dswh top-sec	tion.int			1.3
				1		
DEVELOPED BY	REDESIGNE	D BY	DOC. TYPE	MATERIAL		QUANTITY
			PART	Galvaniz	ed Steel #20	1
			LICENCE		SCALE	SHEET
	OPE	EN SOURCE ECOLOGY				
Appropriate Infrastructure		GERMANY				
Development Group	OSEG		CC-BY-SA	4.0	1:2	11 /30
Development Group	OSEG		CC-BY-SA	4.0	1:2	11/30

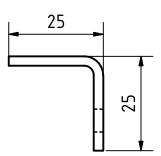
135	300 870	œ		25	36
	PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
	DIY Derpentine Solar Wa	ater Heating D. MOSQUERA	A. MORILLO	23-06-21	1.0
	PART NAME	FILE NAME		123 00-21	PART CODE
	Spacers	aid_dswh_space	rs.ipt		1.4
	DEVELOPED BY	REDESIGNED BY	DOC. TYPE MATERIA	L	QUANTITY
			PART Galvar	ized Steel #20	3
		OPEN SOURCE ECOLOGY GERMANY	LICENCE	SCALE	SHEET
	Appropriate Infrastructure Development Group	OSEG	CC-BY-SA 4.0	1:2	12 /30

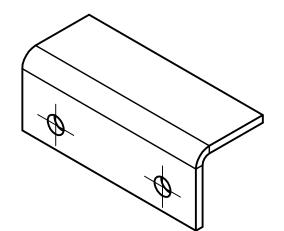




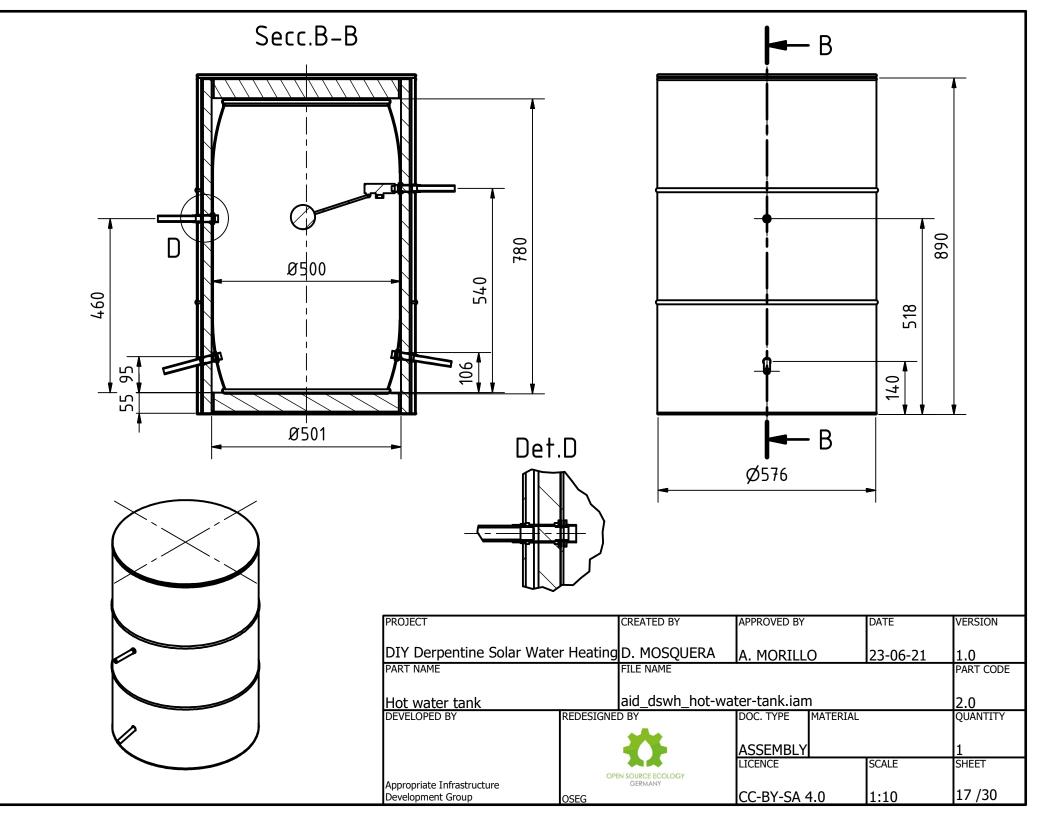


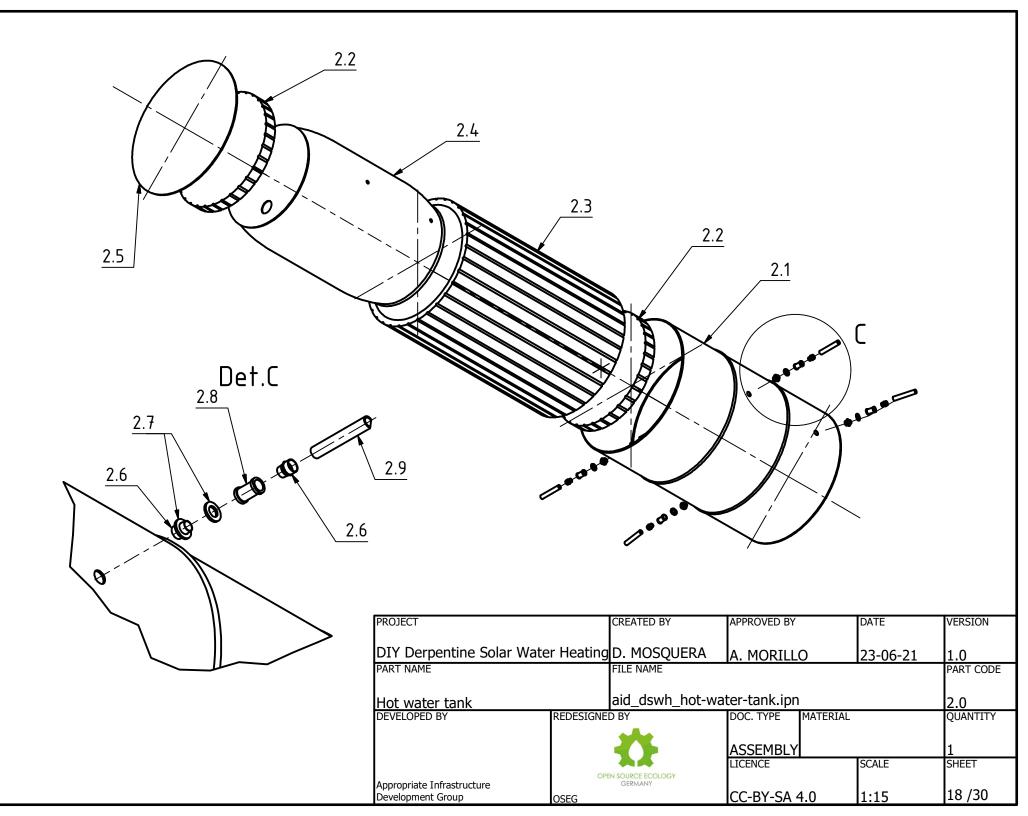


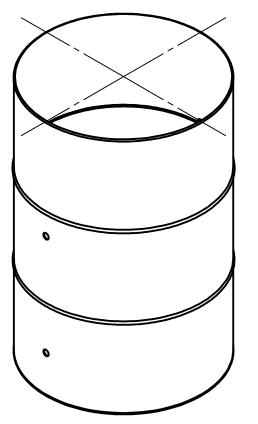


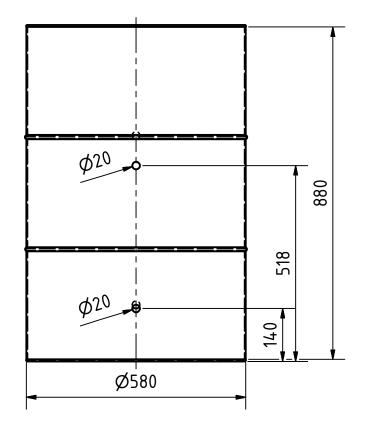


PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Water Heating		D. MOSQUERA	A. MORILLO		23-06-21	1.0
PART NAME		FILE NAME				PART CODE
angle 25 x 25		aid_dswh_angle2	5.ipt			1.9
DEVELOPED BY	REDESIGNE	D BY	DOC. TYPE	MATERIAL		QUANTITY
		45	PART	Steel C4	5	4
			LICENCE		SCALE	SHEET
Appropriate Infrastructure	OPE	EN SOURCE ECOLOGY GERMANY				16 (20
Development Group	OSEG		CC-BY-SA	4.0	1:2	16 /30



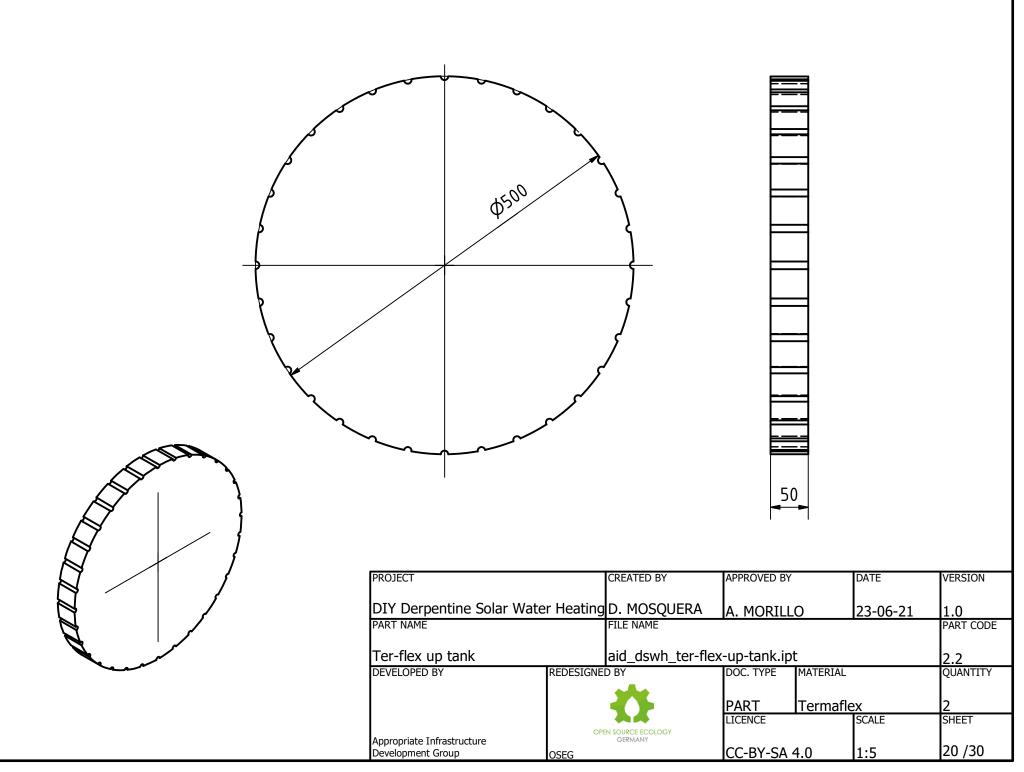


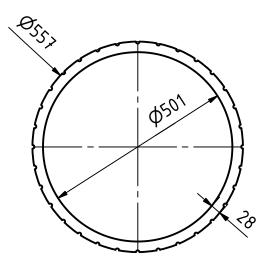


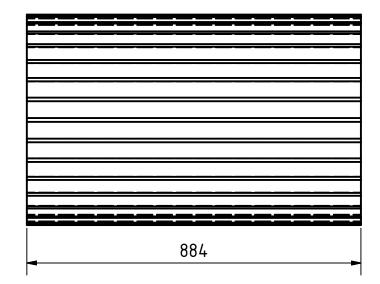


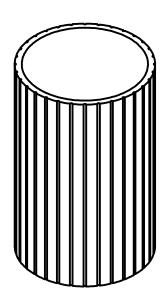
NOTE: holes alligned to inner tank tubes

PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Water Heating			A. MORILLO		23-06-21	1.0
PART NAME		FILE NAME				PART CODE
Metal drum		aid_dswh_metal-c	lrum-55g.ip	t		2.1
DEVELOPED BY	REDESIGNED) BY	DOC. TYPE	MATERIAL		QUANTITY
		*	PART			1
	005		LICENCE		SCALE	SHEET
Appropriate Infrastructure Development Group	OSEG	N SOURCE ECOLOGY GERMANY	CC-BY-SA 4	4.0	1:5	19 /30

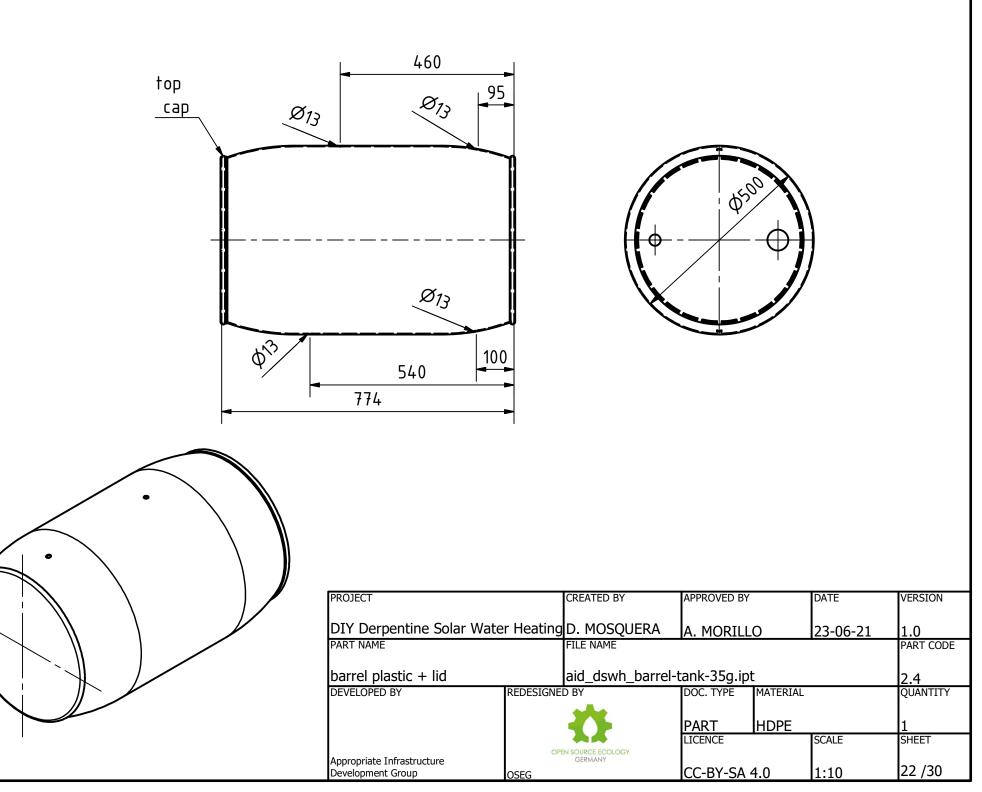




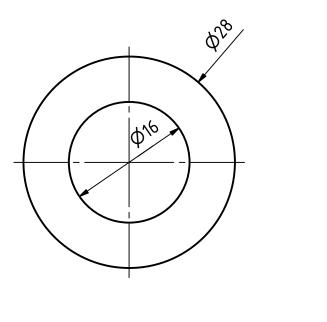


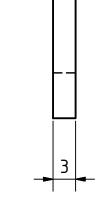


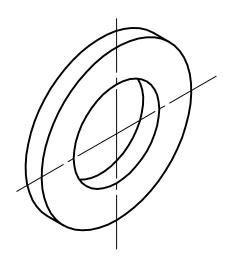
PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar V	D. MOSQUERA	A. MORILL	.0	23-06-21	1.0	
PART NAME		FILE NAME				PART CODE
Ter flex tank		aid_dswh_ter-flex	x-tank.ipt			2.3
DEVELOPED BY	REDESIGNE	D BY	DOC. TYPE	MATERIAL		QUANTITY
		44	PART	Termafle	ex	1
			LICENCE		SCALE	SHEET
Appropriate Infrastructure Development Group	OSEG	EN SOURCE ECOLOGY GERMANY	CC-BY-SA	4.0	1:10	21 /30



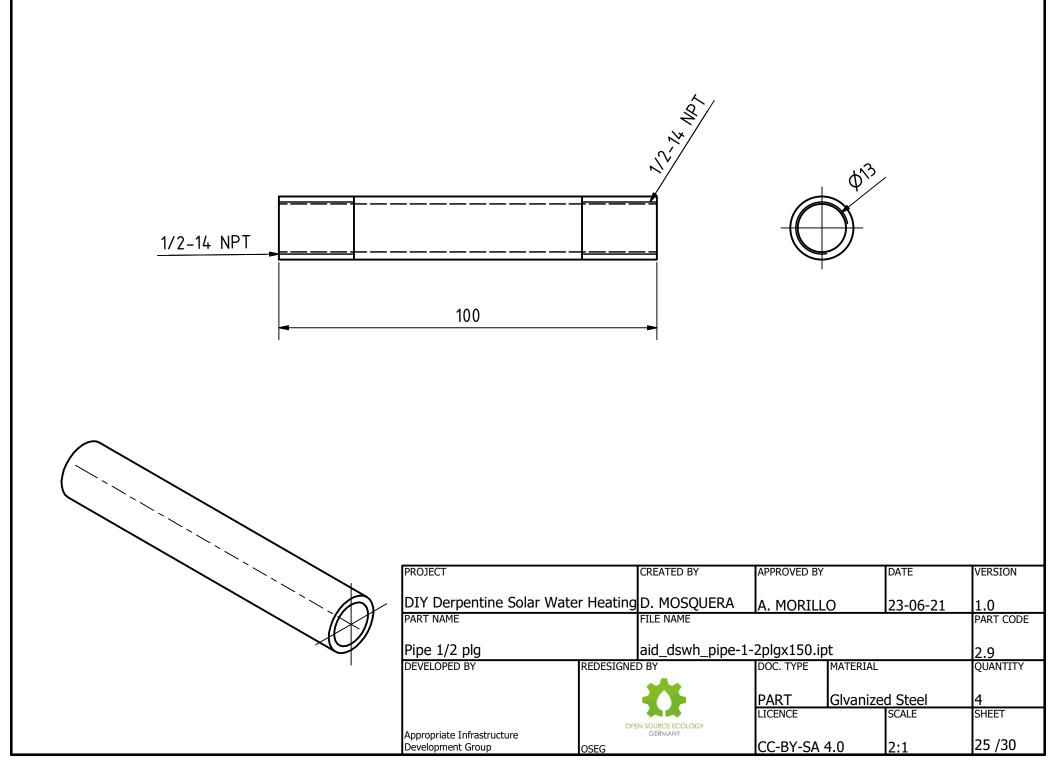
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
DIY Derpentine Solar Water Heating	D. MOSQUERA	A. MORILLO	23-06-21	1.0 PART CODE
		metal_drum_55g int		
Cover metal drum DEVELOPED BY REDESIGNE	D BY	metal-drum-55g.ipt		2.5 QUANTITY
	43	PART LICENCE		1
Appropriate Infrastructure	PEN SOURCE ECOLOGY GERMANY	LICENCE	SCALE	SHEET
Appropriate Infrastructure Development Group OSEG		CC-BY-SA 4.0	1:5	23 /30



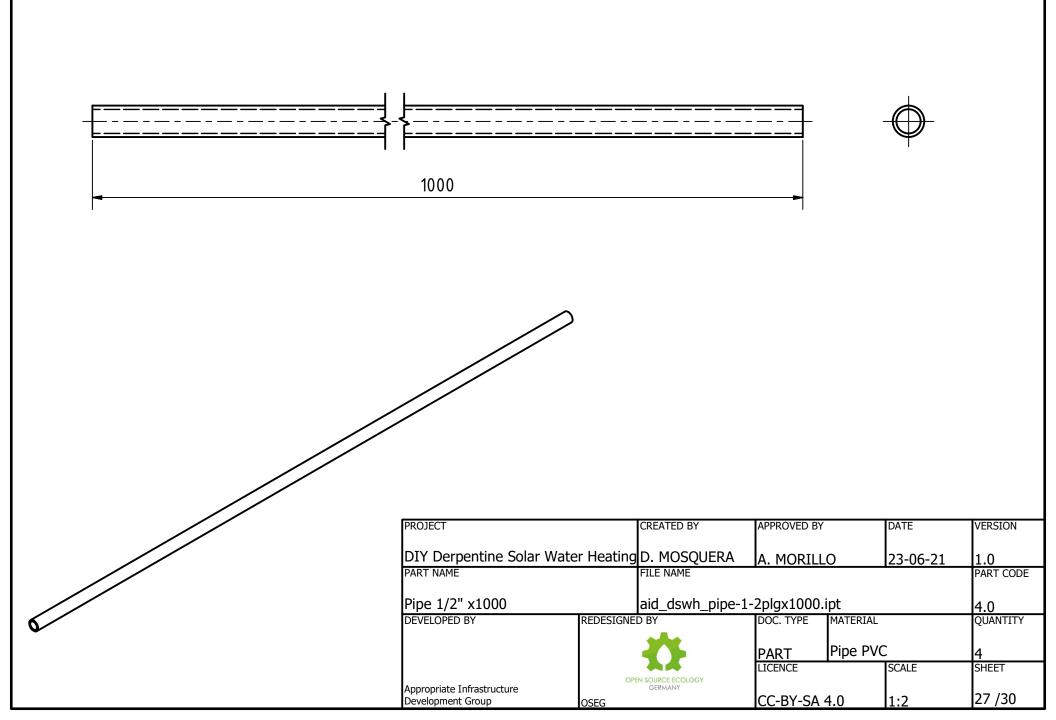




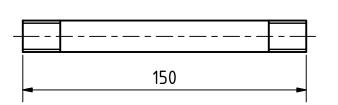
PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Wate	r Heating	D. MOSQUERA	A. MORILL	0	23-06-21	1.0
		FILE NAME				PART CODE
Rubber seals		aid_dswh_rubber-seals.ipt				2.7
DEVELOPED BY	REDESIGNED BY		DOC. TYPE	MATERIAL		QUANTITY
		44	PART	Rubber		2
			LICENCE		SCALE	SHEET
Appropriate Infrastructure Development Group	OPE	EN SOURCE ECOLOGY GERMANY	CC-BY-SA	4 0	2:1	24 /30

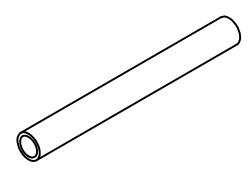


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\frown				
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
DIY Derpentine Solar Wat	er Heating D. MOSQUERA FILE NAME	A. MORILLO	23-06-21	1.0 PART CODE
pipe 1/2"x1510		e-1-2plgx1510.ipt		3.0
DEVELOPED BY	REDESIGNED BY	DOC. TYPE MATER	RIAL	QUANTITY
		PART Pipe		1
Annuariata Tafuantu utura	OPEN SOURCE ECOLOGY GERMANY	LICENCE	SCALE	SHEET
Appropriate Infrastructure Development Group	OSEG	CC-BY-SA 4.0	1:5	26 /30



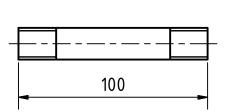
-=	900			L.7	
	PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
	DIY Derpentine Solar Water Heating	g D. MOSQUERA	A. MORILLO	23-06-21	1.0 PART CODE
	Pipe 1/2"x900	aid_dswh_pipe-1	anlaw000 int		
6	DEVELOPED BY REDESIGN	ED BY	DOC. TYPE MATERIA	L	5.0 QUANTITY
		- th	PART Pipe P	VC SCALE	2 SHEET
	Appropriate Infrastructure OSEG	OPEN SOURCE ECOLOGY GERMANY	CC-BY-SA 4.0	1:5	28 /30

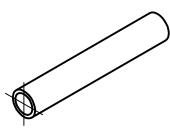




PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Water Heating		D. MOSQUERA	A. MORILLO		23-06-21	1.0
PART NAME		FILE NAME	PART CODE			
Pipe 1/2"x350		aid_dswh_pipe-1-	6.0			
DEVELOPED BY	REDESIGNED BY		DOC. TYPE	MATERIAL		QUANTITY
			PART	Pipe PVC		2
			LICENCE		SCALE	SHEET
Appropriate Infrastructure	OPE	N SOURCE ECOLOGY GERMANY				
Development Group	OSEG		CC-BY-SA 4	4.0	1:2	29 /30

\$12,7





PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DIY Derpentine Solar Water Heating		D. MOSQUERA	A. MORILLO		23-06-21	1.0
PART NAME		FILE NAME	PART CODE			
pipe 1/2"x150		aid_dswh_pipe-1·	7.0			
DEVELOPED BY	REDESIGNED BY		DOC. TYPE	MATERIAL		QUANTITY
			PART	Pipe PVC		5
			LICENCE		SCALE	SHEET
Appropriate Infrastructure	OPE	IN SOURCE ECOLOGY GERMANY				
	OSEG		CC-BY-SA	4.0	1:2	30 /30

\$12.7