
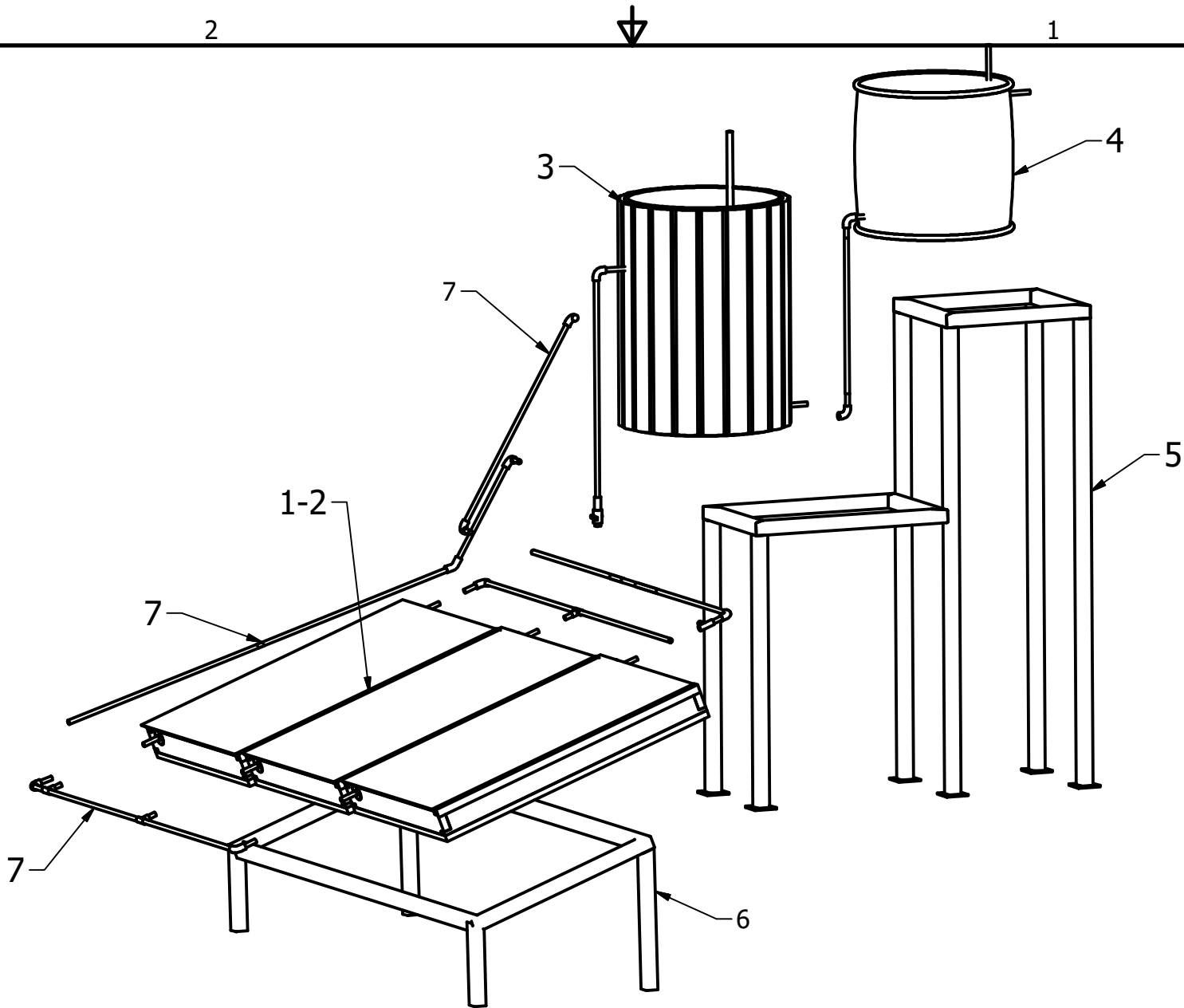






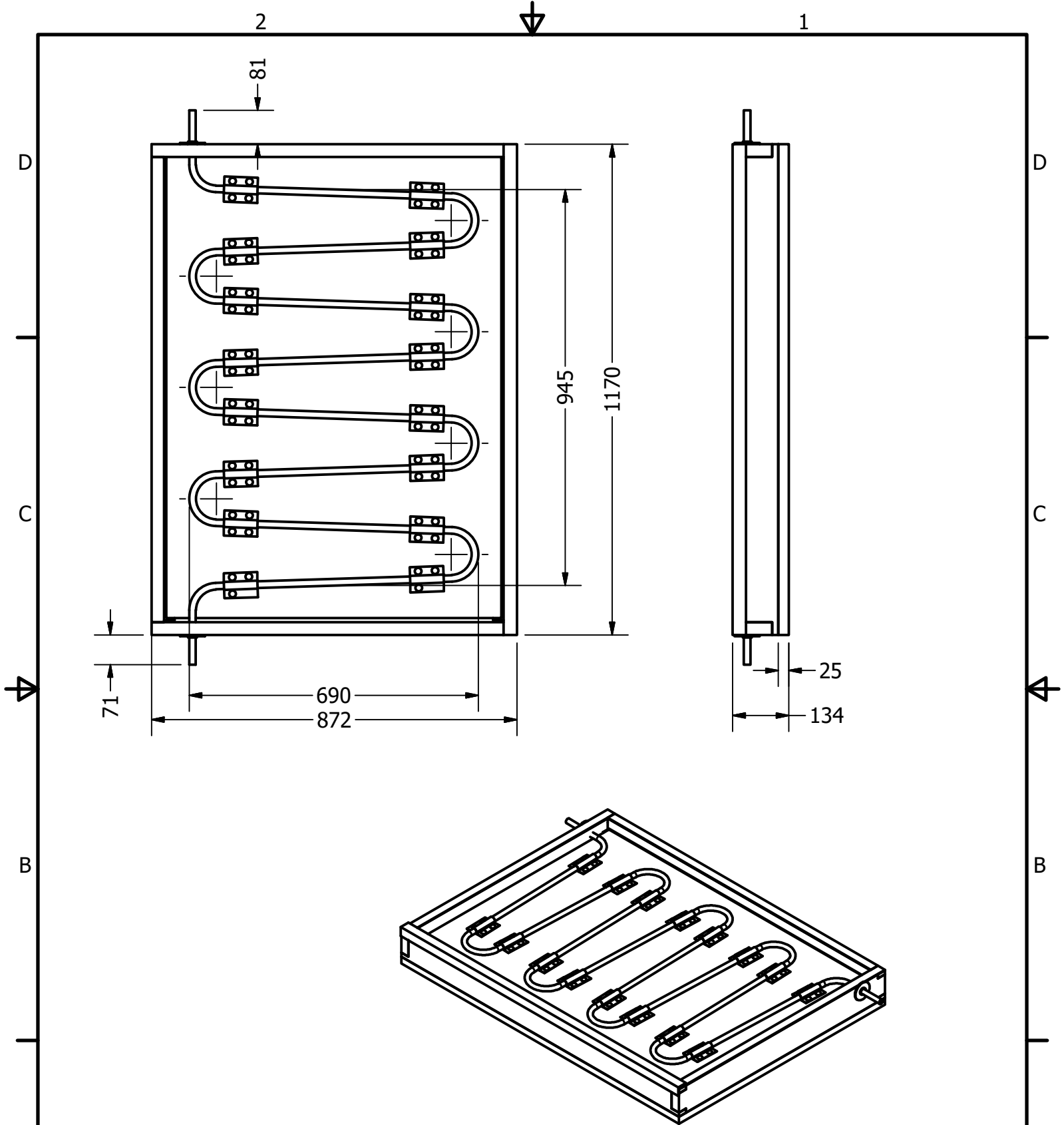
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager	
Part Name zigzag solar water heater		Part Code A1		Document Type assembly	Material
<div>Redesigned by</div> <div></div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHLoseg_zsw_h_A1_zigzag-solar-water-heater.iam		Version 1.0	Quantity 1
				Scale 1 / 30	Sheet 2




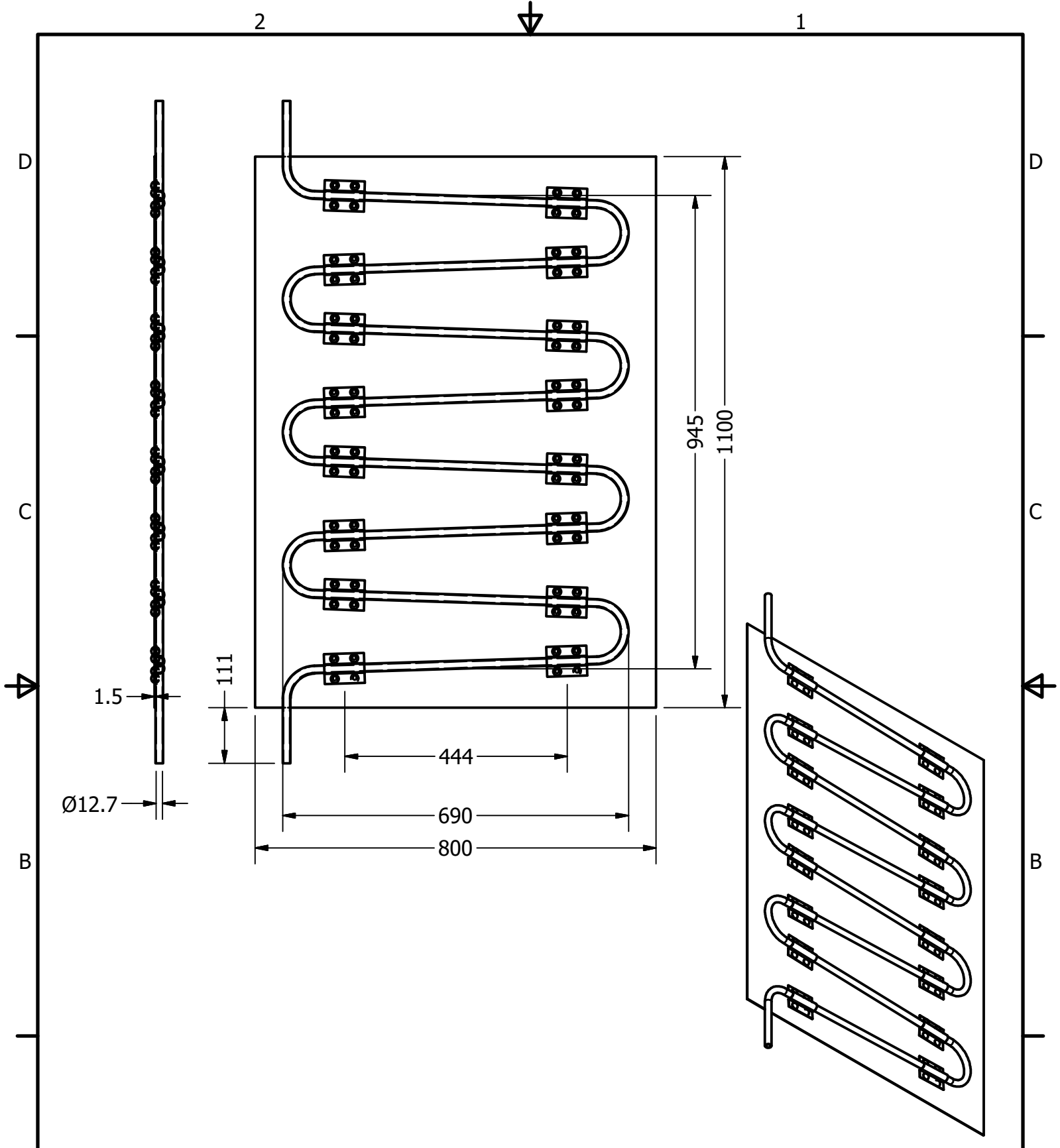
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name zigzag solar water heater		Part Code A2		Document Type ASSEMBLY		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL oseg		File Name oseg_zsw_h_A1_zigzag-solar-water-heater.ipn		Version 1.0
				Scale 1:10		Quantity 1
				Sheet 3		Date 10.02.21


2				1			
Pos.	Pos. old	Qty.	Part name	File name (new)	Part type	Specifications	Sh.
A1			zigzag solar water heater	oseg_zswh_A1_zigzag-solar-water-heater.iam	production		1
			zigzag solar water heater		Assembly		2
B			Part list	oseg_zswh_B_parts-list.	parts list		3
1	2.1	3	The Absorber	oseg_zswh_Absorber.iam	Production		
1.1	2.1.1	3	1/2" galvanised pipe	oseg_zswh_zig-zag-1/2"-galvanised-pipe.ipt	Production		
1.2	2.1.4	3	galvanised sheet	oseg_zswh_galvanised-sheet.ipt	Production		
1.3		48	saddles	oseg_zswh_saddles.ipt	Production		
1.4		180	rivets 9,4 x 18	9,4 x 18 x 0,3 - SV 34.ipt	Standard	rivets 9,4 x 18 expand	
2	2.2	3	collector-box	oseg_zswh_collector-box.iam	Production		
2.1		6	sides planks	oseg_zswh_sides-planks.ipt	Production		
2.2		6	front planks	oseg_zswh_front-planks.ipt	Production		
2.3		6	supporting laths	oseg_zswh_supporting-laths.ipt	Production		
2.4		3	bottom plank	oseg_zswh_bottom-plank.ipt	Production		
2.5		3	insulating material	oseg_zswh_insulating-material.ipt	Production	empty bags of fibre with sawdust, Coconut-fibre, glass-wool or any kind of other insulating material.	
2.6		3	cover glass	oseg_zswh_cover-glass.ipt	Production		
2.7		8	rubber strip	oseg_zswh_rubber-strip.ipt	Production		
2.8		3	angle section	oseg_zswh_angle-section.ipt	production	Angle section aluminum 25x25x3; L: 1180	
3	3	1	insulated storage tank	oseg_zswh_insulated-storage-tank.iam	Production		
3.1		1	storage tank	oseg_zswh_storage-tank.ipt	Standard	2000-litredrum	
3.2		4	galvanised pipe 1/2"	oseg_zswh_galvanised pipe 1/2"x150.ipt	production		
3.3		2	galvanised pipe 3/4"	oseg_zswh_galvanised pipe 3/4"x300.ipt	production		
3.4		1	insulating material	oseg_zswh_insulating-material.ipt	Production		
Project zigzag solar water heater							
Part Name zigzag solar water heater			Created by D. Mosquera	Approved by D. Jeager			
Redesigned by 			Part Code B	Document Type part-list	Material		
Original drawing from Practical ACTION			License CERN-OHL	File Name oseg_zswh_A1_zigzag-solar-water-heater	Version 1.0	Quantity 1	
				Scale	Sheet 4	Date 10.02.21	
2				1			

		2				1			
Pos.	Pos. old	Qty.	Part name	File name (new)	Part type	Specifications	Sh.		
4	4		the buffer tank	oseg_zsw_h_the-buffer-tank.iam	production				
D	4.1	1	storage tank	oseg_zsw_h_storage-tank.ipt	Standard	half 2000-litre drum			D
	4.2	3	galvanised pipe 1/2"	oseg_zsw_h_galvanised-pipe-1/2"x150.ipt	production				
	4.3	1	floating gauge	oseg_zsw_h_floating-gauge.ipt	Standard				
	5	1	foundation storage tank	oseg_zsw_h_foundation-structure.iam	production				
	5.1	4	steel-pipe 50x50x500	oseg_zsw_h_steel-pipe 50x50x500.ipt	production				
	5.2	2	steel-pipe 50x50x600	oseg_zsw_h_steel-pipe 50x50x600.ipt	production				
	5.3	2	steel-pipe 50x50x800	oseg_zsw_h_steel-pipe 50x50x800.ipt	production				
C	5.4	2	steel-pipe 50x50x1050	oseg_zsw_h_steel-pipe 50x50x1050.ipt	production				C
	5.5	4	steel-pipe 50x50x1800	oseg_zsw_h_steel-pipe 50x50x1800.ipt	production				
	5.6	6	rectangular flancher	oseg_zsw_h_rectangular-flancher.ipt	production				
	6	1	base collector	oseg_zsw_h_base-collector.iam	production				
	6.1	2	steel-pipe 50x50x330	oseg_zsw_h_steel-pipe 50x50x330.ipt	production				
	6.2	2	steel-pipe 50x50x600	oseg_zsw_h_steel-pipe 50x50x600.ipt	production				
	6.3	2	steel-pipe 50x50x800	oseg_zsw_h_steel-pipe 50x50x800.ipt	production				
	6.4	2	steel-pipe 50x50x2300	oseg_zsw_h_steel-pipe 50x50x2300.ipt	production				
B	7		pipe fitting and accesories						B
	7.1	6	galvanised pipe 1/2" x 450	oseg_zsw_h_galvanised-pipe-1/2"x450.ipt	Standard				
	7.2	3	galvanised pipe 1/2" x 600	oseg_zsw_h_galvanised-pipe-1/2"x600.ipt	Standard				
	7.3	2	galvanised pipe 1/2" x 830	oseg_zsw_h_galvanised-pipe-1/2"x830.ipt	Standard				
	7.4	10	galvanised elbow 1/2"-90°	oseg_zsw_h_galvanised-elbow-1/2"-90.ipt	Standard				
	7.5	4	galvanised tee 1/2"-90°	oseg_zsw_h_galvanised-tee-1/2"-90.ipt	Standard				
Proyect zigzag solar water heater				Created by D. Mosquera	Approved by D. Jeager				
Part Name zigzag solar water heater				Part Code B	Document Type part-list		Material		
Redesigned by		Original drawing from		License CERN-OHL	File Name oseg_zsw_h_A1_zigzag-solar-water-heater		Version 1.0	Quantity 1	
					Scale		Sheet 5	Date 10.02.21	
						</			



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name absorber collector		Part Code 1		Document Type assembly		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name pseg_zswh_absorber-collector.iam		Version 1.0
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					Sheet 6	Date 10.02.21

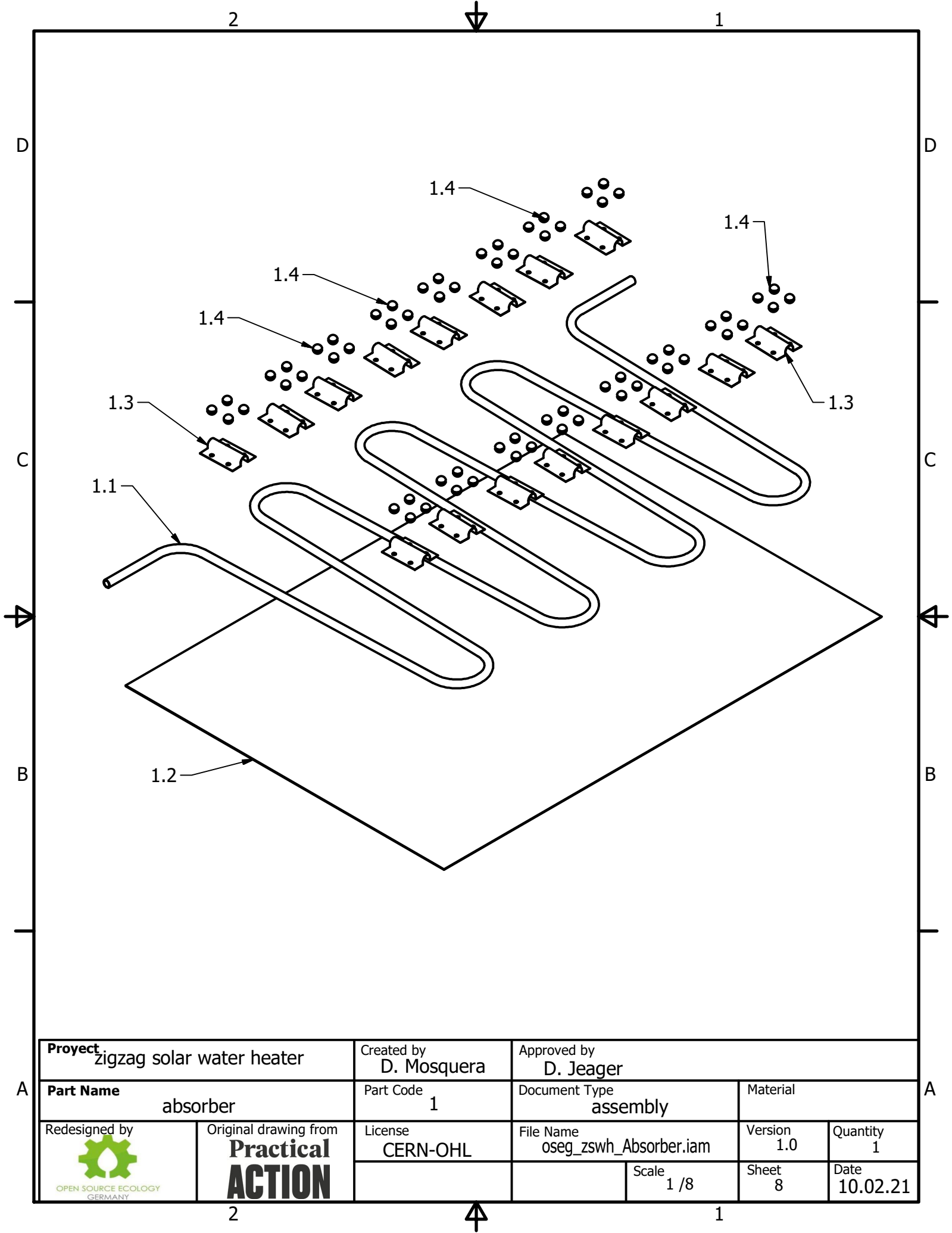


Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name absorber		Part Code 1		Document Type assembly		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_Absorber.iam		Version 1.0
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						Date 10.02.21

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4

1



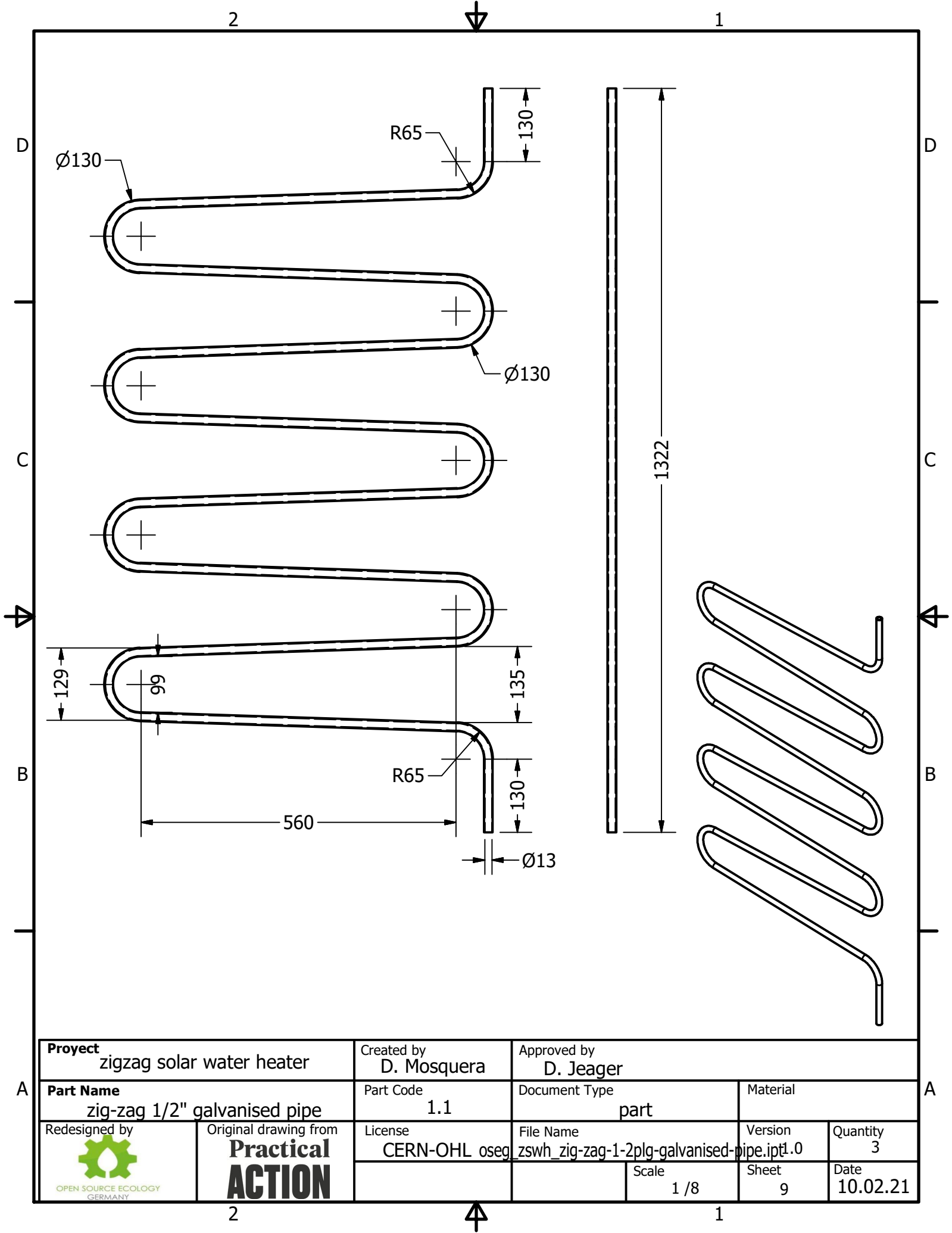
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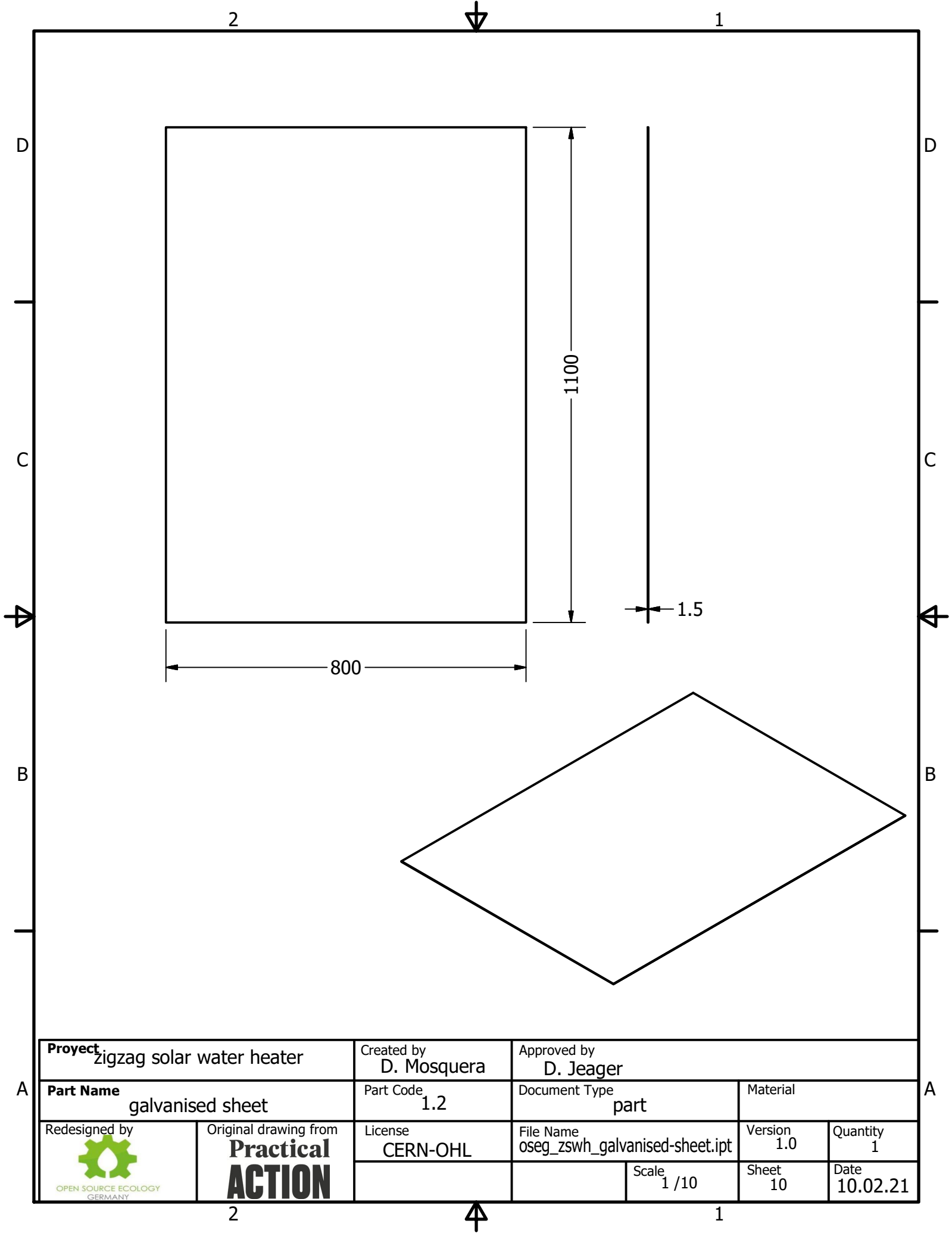
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name absorber		Part Code 1	Document Type assembly		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswh_Absorber.iam		Version 1.0	Quantity 1
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2

1



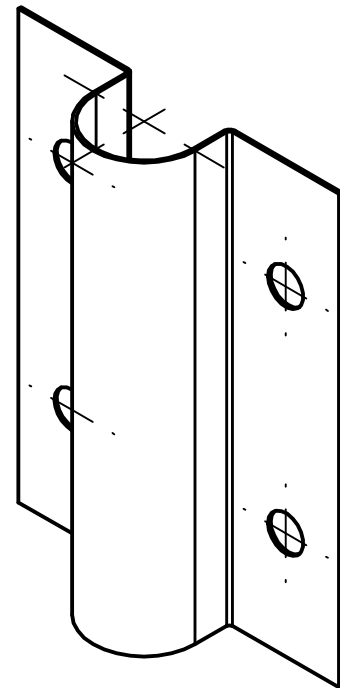
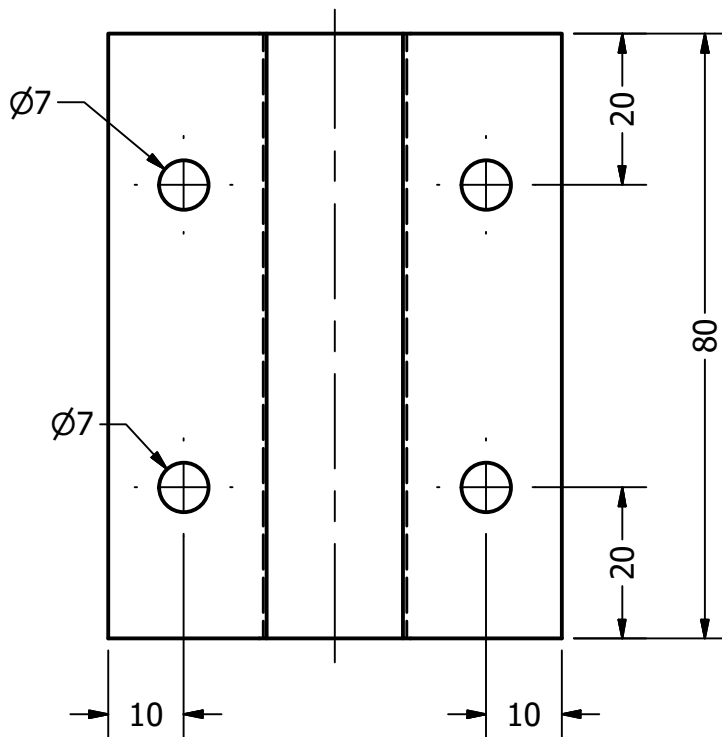
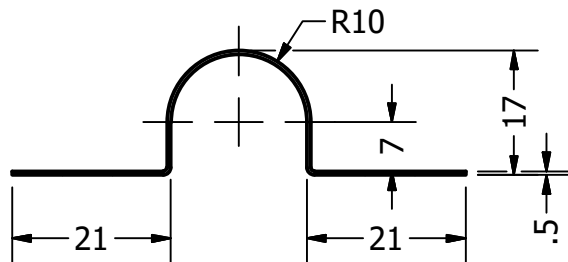
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name zig-zag 1/2" galvanised pipe		Part Code 1.1		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL oseg		File Name zsw_h_zig-zag-1-2plg-galvanised-pipe.ipt		Version 1.0
				Scale 1 / 8		Quantity 3
				Sheet 9		Date 10.02.21



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager			
Part Name galvanised sheet		Part Code 1.2		Document Type part		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_galvanised-sheet.ipt		Version 1.0	Quantity 1
						Scale 1 /10	Sheet 10

2

1



NOTE: Long. = 90.0

Proyect
zigzag solar water heater

Created by
D. Mosquera

Approved by
D. Jeager

Part Name
saddles

Part Code
1.3

Document Type
part

Material

Redesigned by

Original drawing from

License
CERN-OHL

File Name
oseq_zsw_h_saddles.ipt

Version

1.0

Quantity

58



OPEN SOURCE ECOLOGY
GERMANY

**Practical
ACTION**

Scale

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Sheet

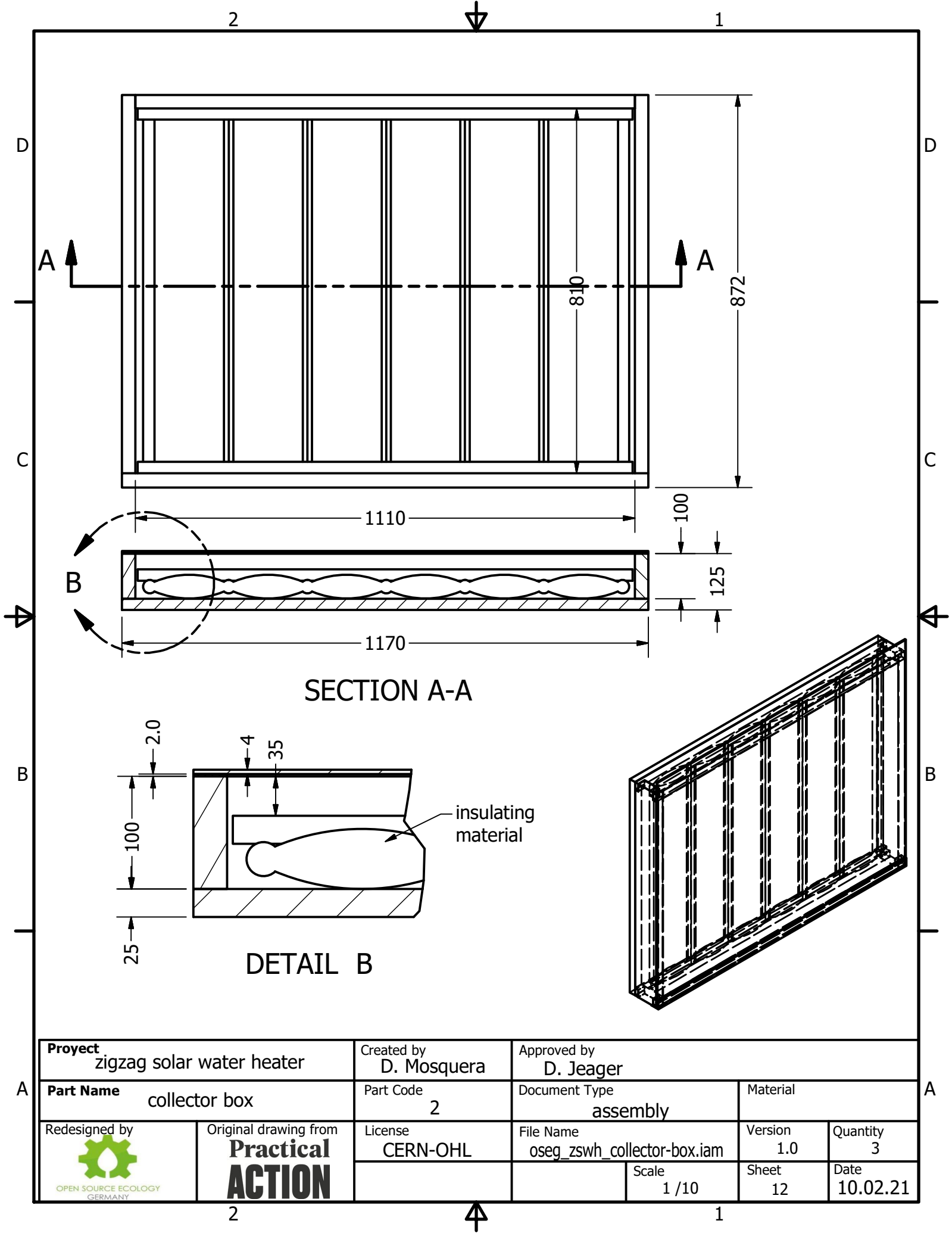
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Date

10.02.21

2


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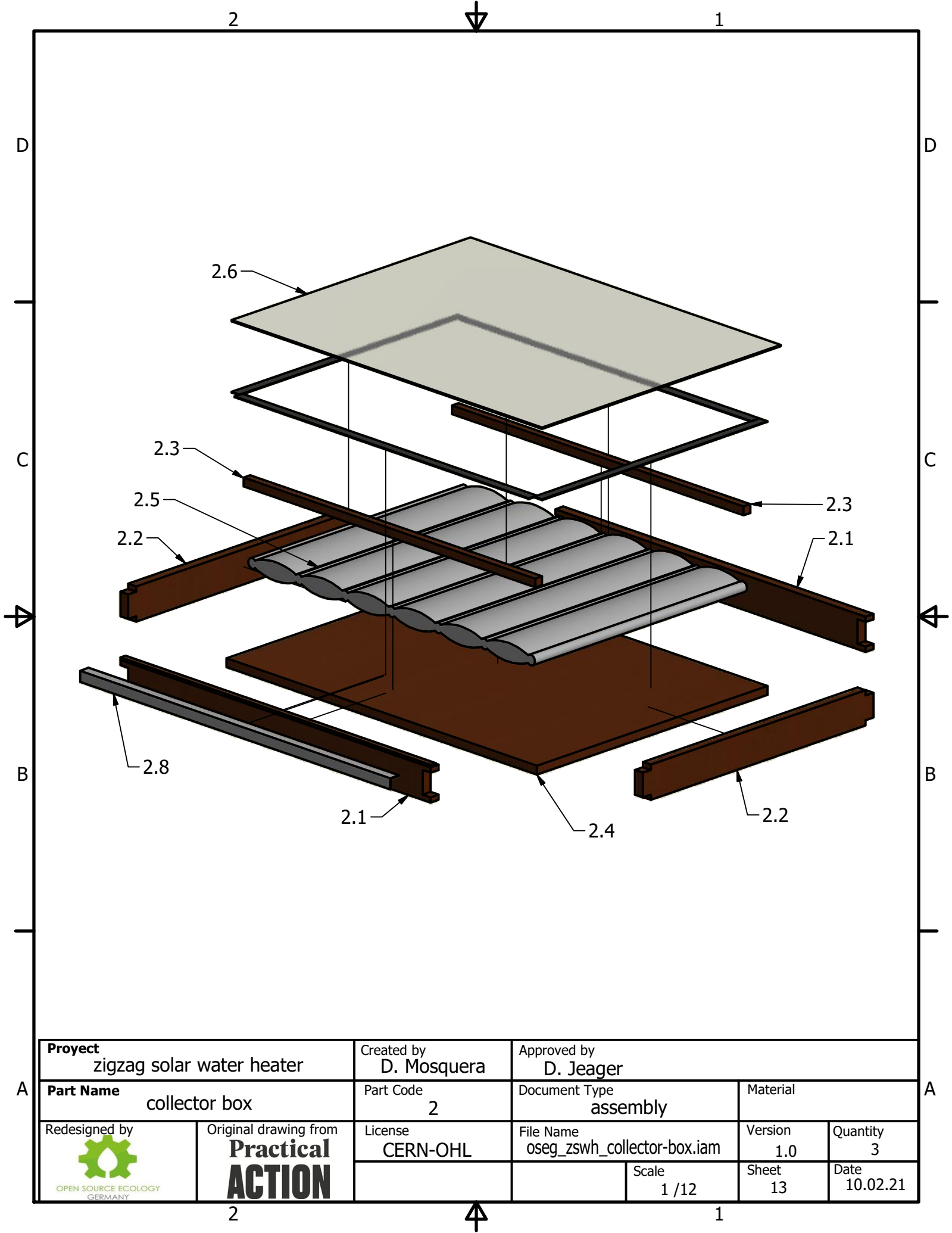



SECTION A-A

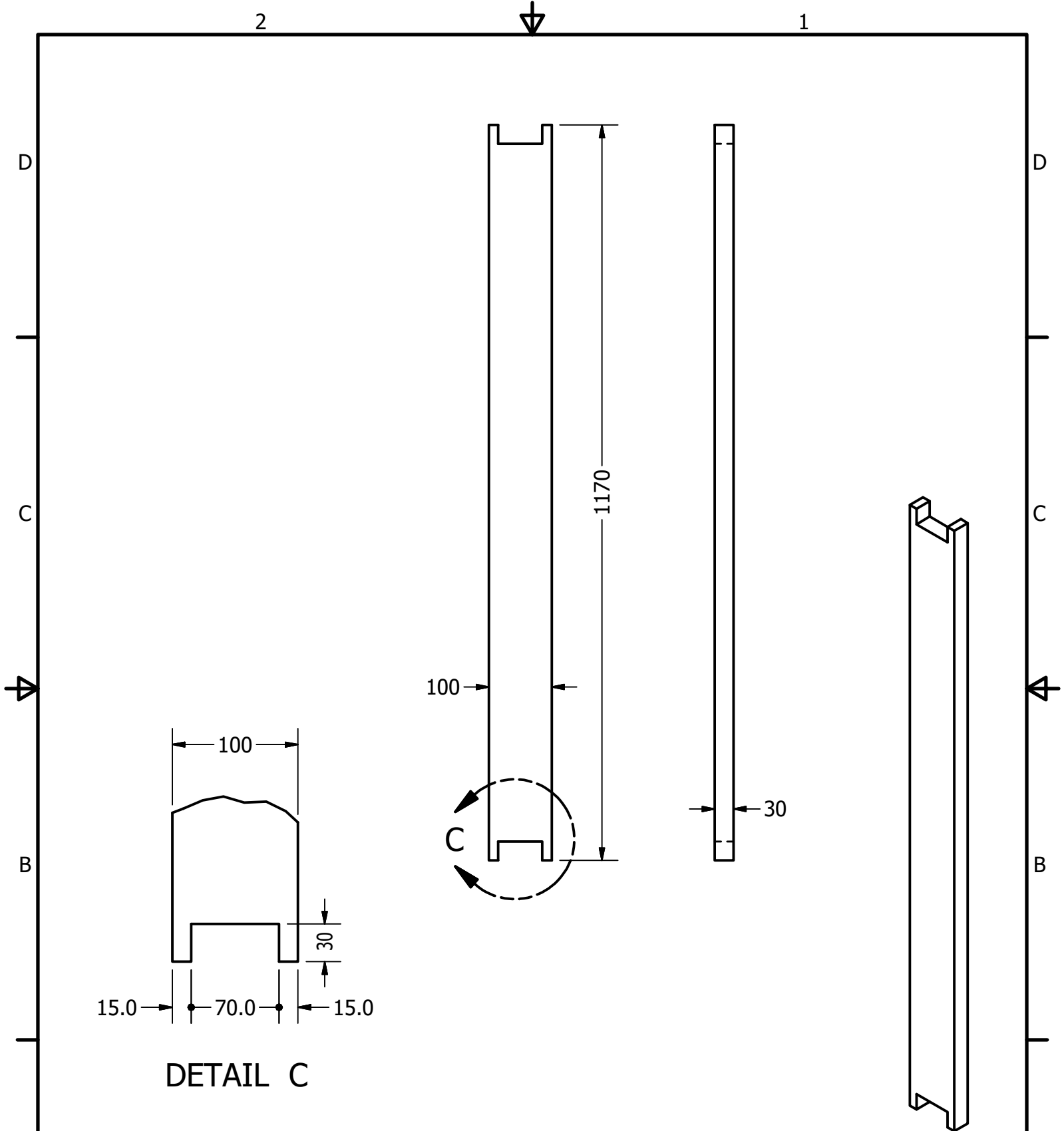
DETAIL B

insulating material


Proyected zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager		
Part Name collector box		Part Code 2	Document Type assembly	Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswh_collector-box.iam	Version 1.0	Quantity 3
			Scale 1 / 10	Sheet 12	Date 10.02.21

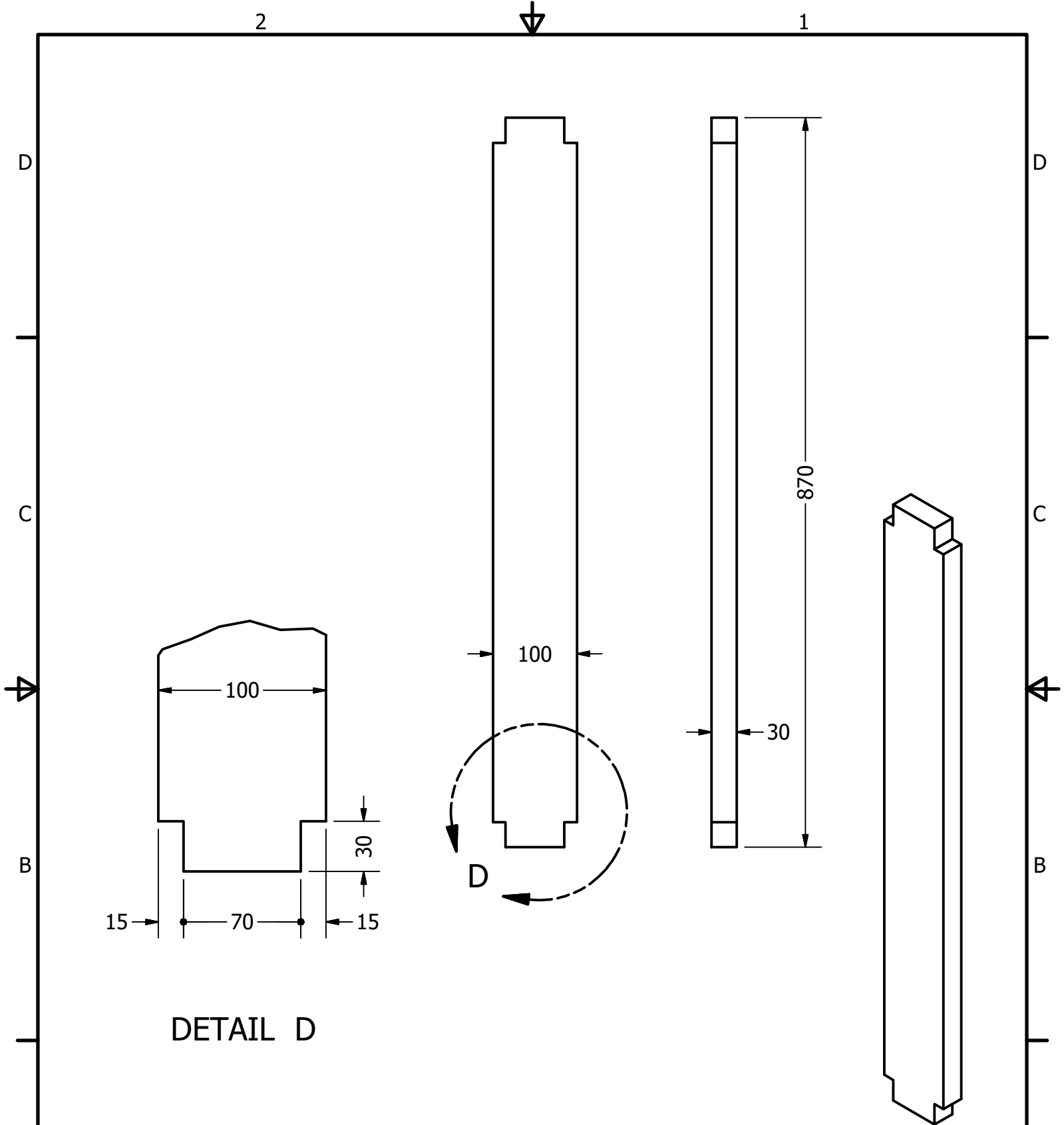


Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name collector box		Part Code 2	Document Type assembly		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswh_collector-box.iam		Version 1.0	Quantity 3
				Scale 1 / 12	Sheet 13	Date 10.02.21



DETAIL C


Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name sides planks		Part Code 2.1		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_sides-planks.ipt		Version 1.0
						Quantity 6
				Scale 1 / 8	Sheet 14	Date 10.02.21



DETAIL D

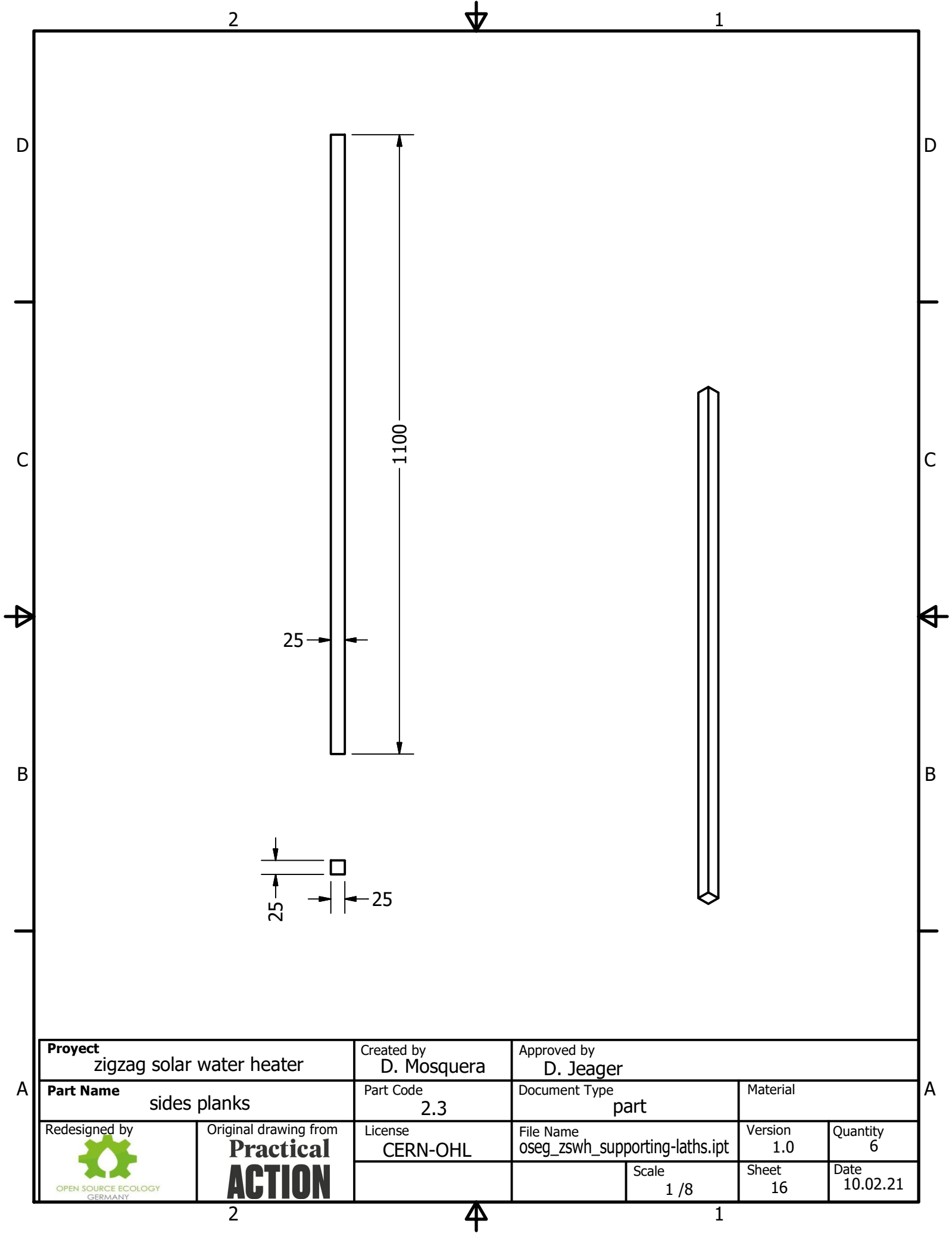
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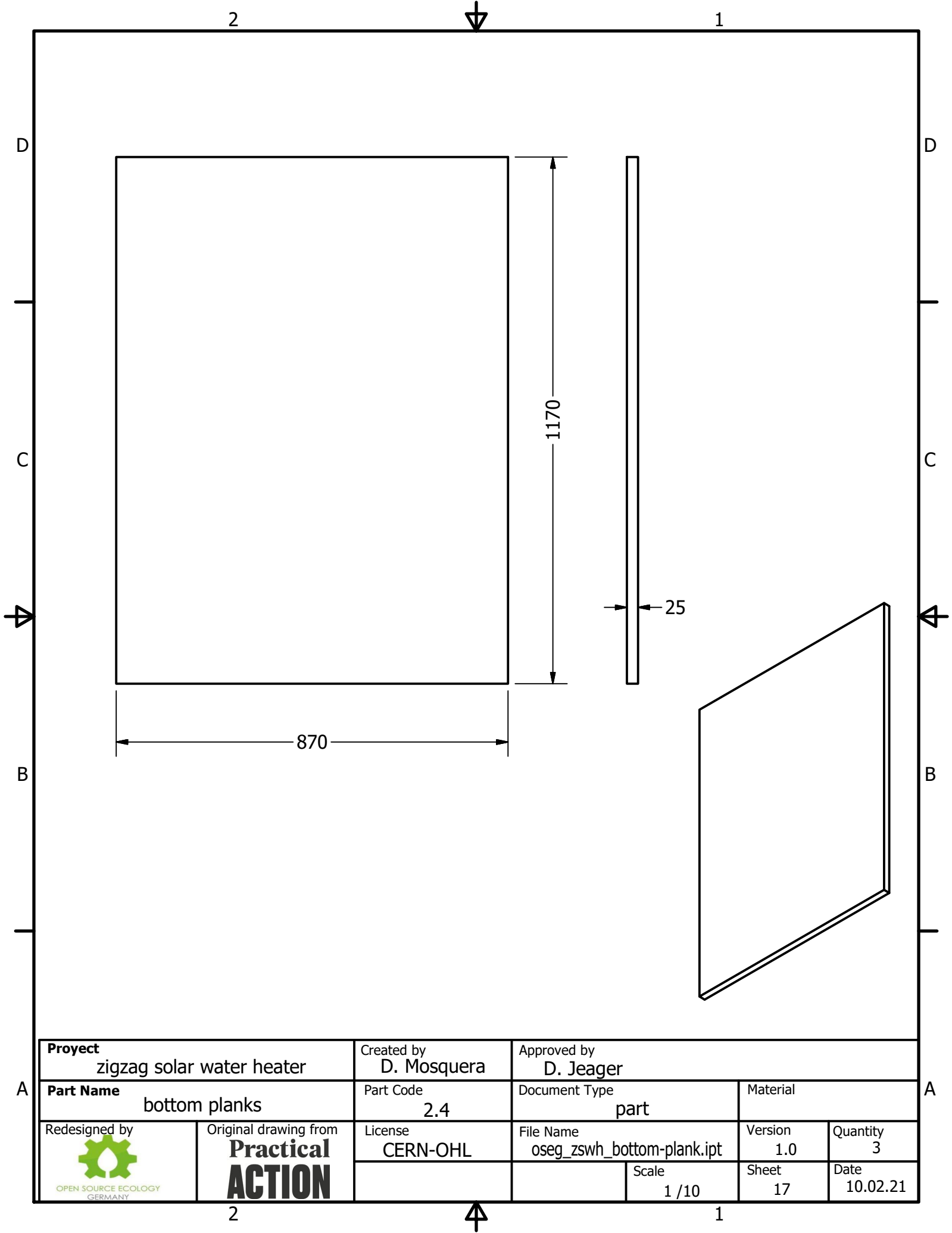
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name front planks		Part Code 2.2		Document Type part		Material
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHL		File Name oseg_zswh_front-planks.ipt		Version 1.0
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					Date 10.02.21	


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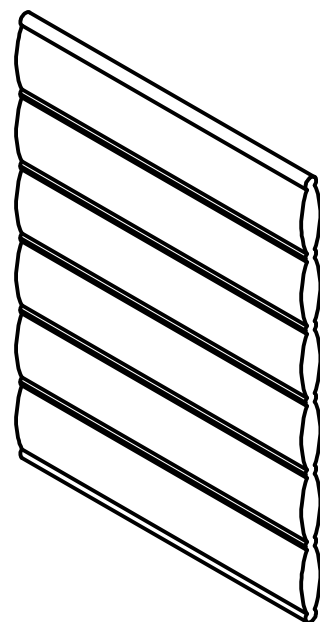
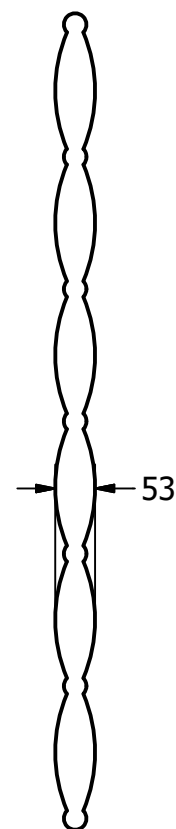
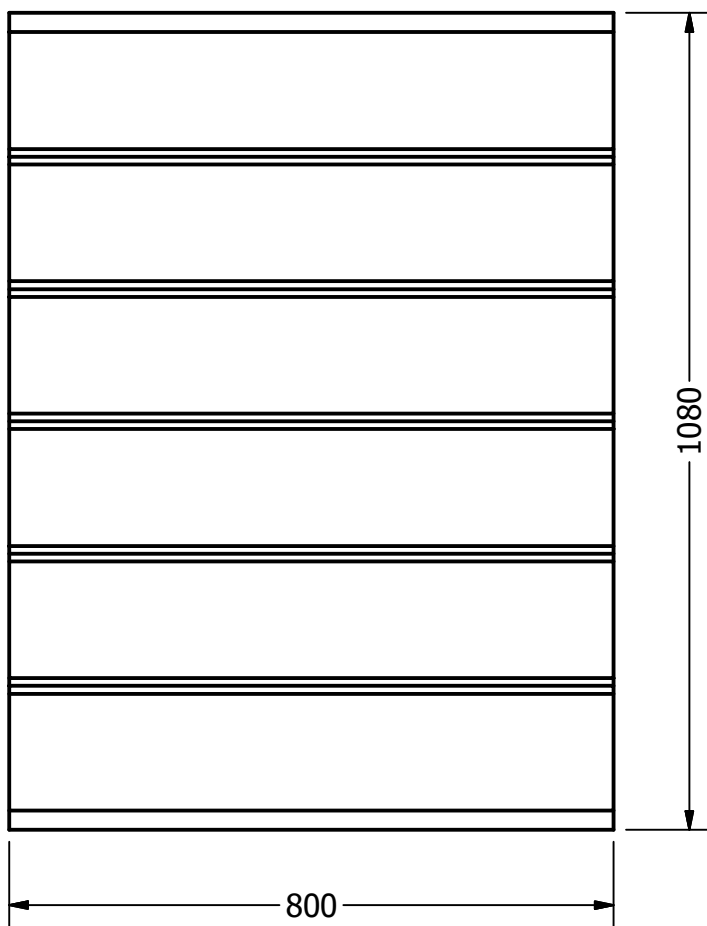
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Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name sides planks		Part Code 2.3	Document Type part		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswh_supporting-laths.ipt		Version 1.0	Quantity 6
				Scale 1 / 8	Sheet 16	Date 10.02.21

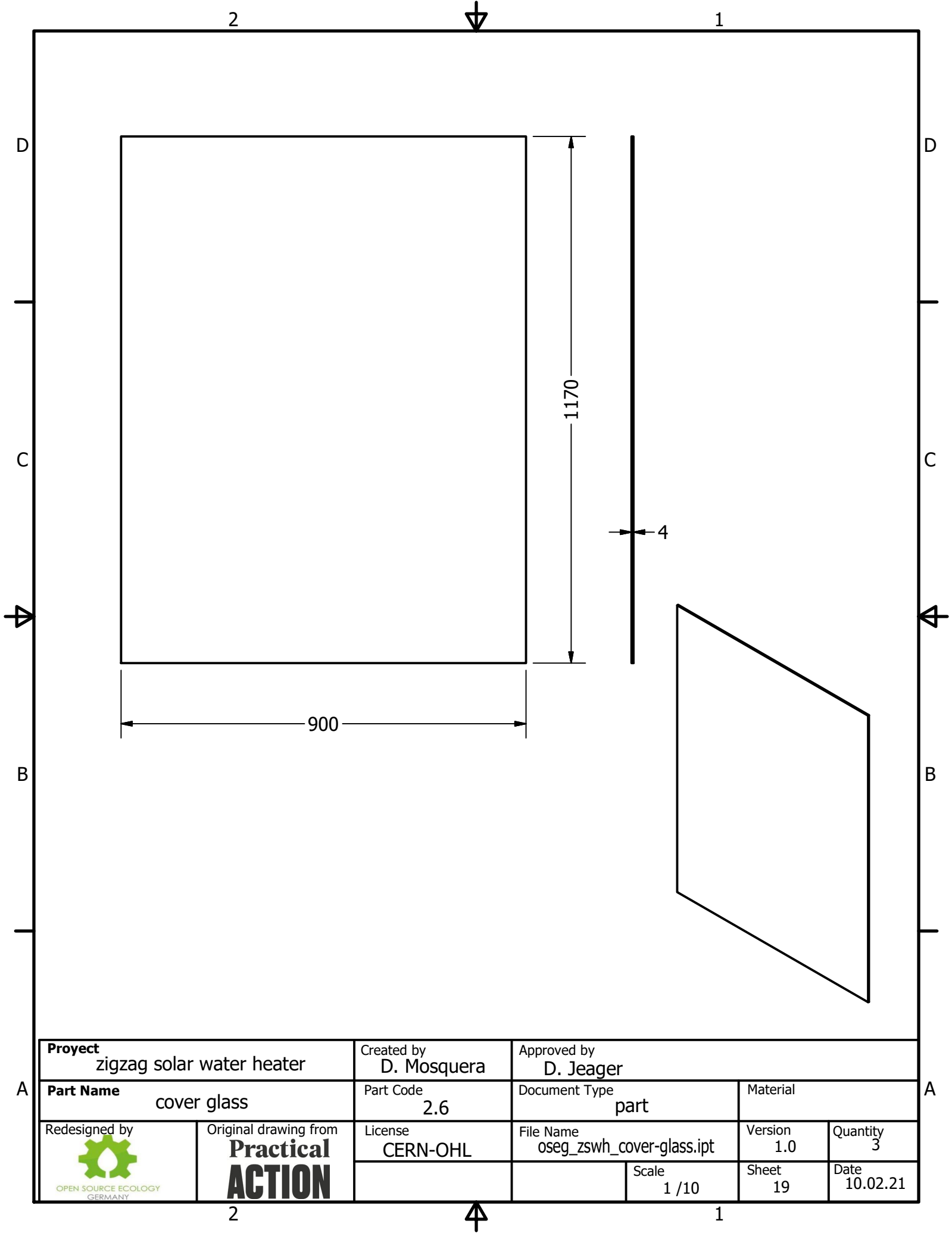



Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name bottom planks		Part Code 2.4	Document Type part		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_bottom-plank.ipt		Version 1.0	Quantity 3
				Scale 1 / 10	Sheet 17	Date 10.02.21

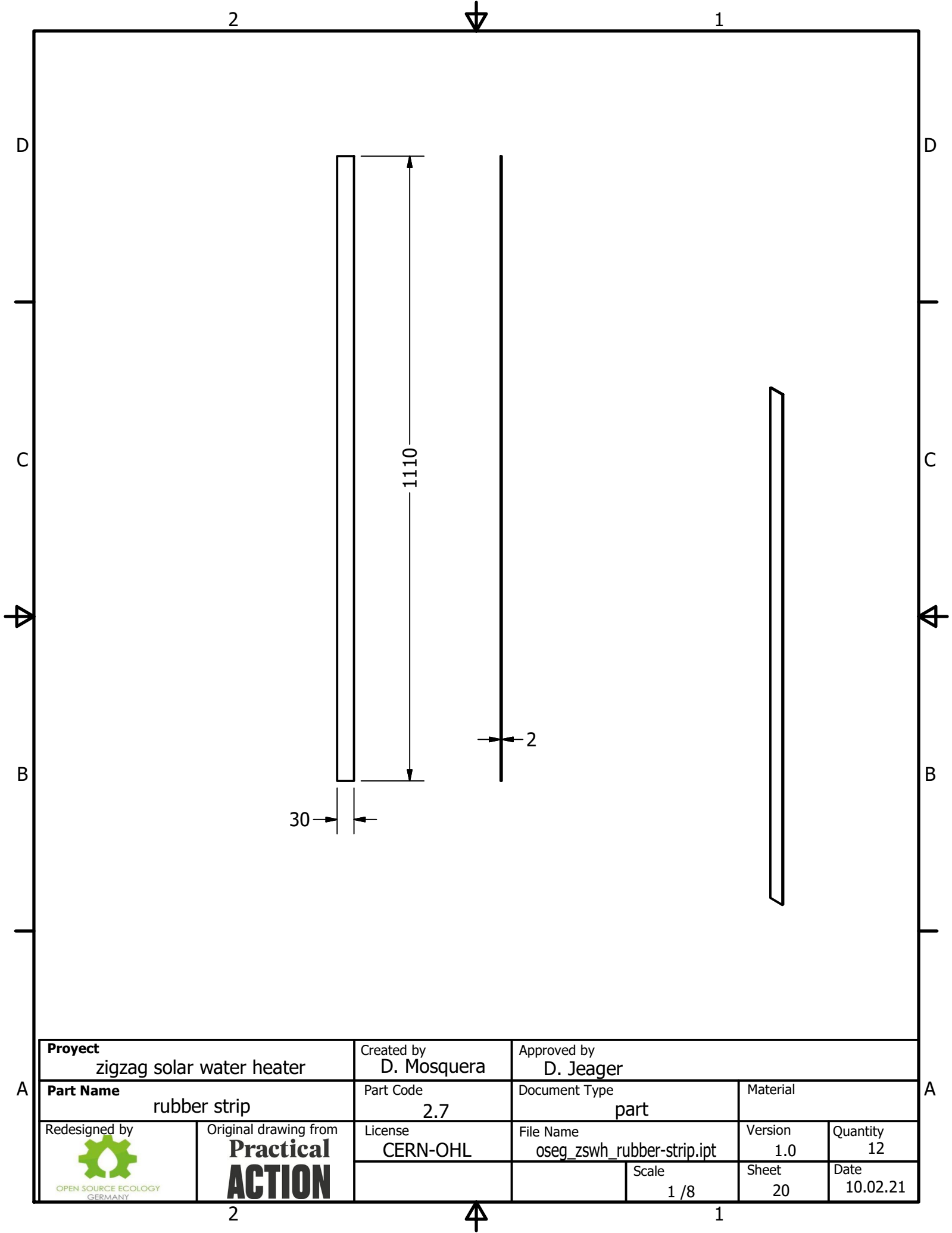



NOTE: empty bags of fibre with sawdust, Coconut-fibre, glass-wool or any kind of other insulating material.

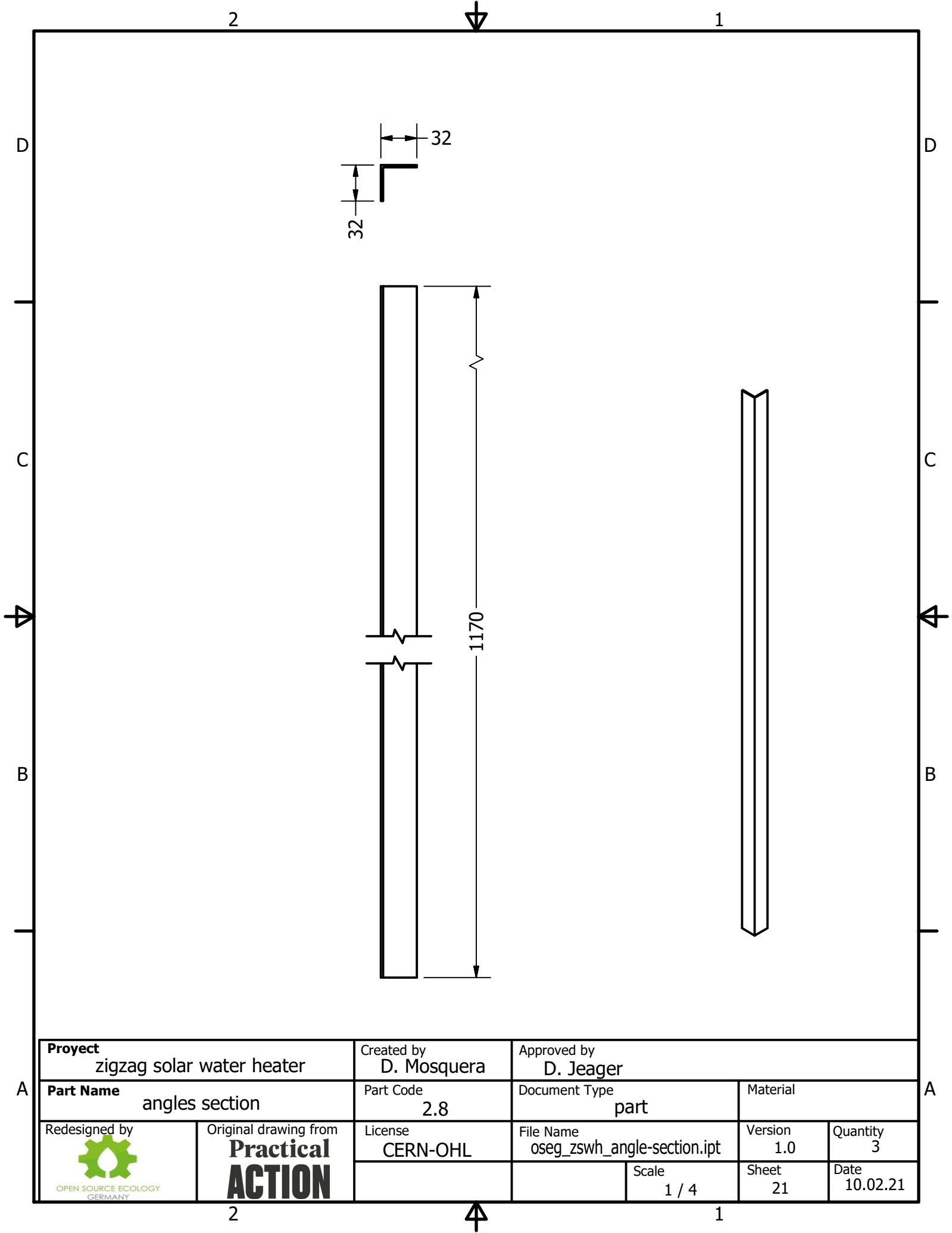
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name sides planks		Part Code 2.5		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_insulating-material.ipt		Version 1.0	Quantity 3
				Scale 1 / 10	Sheet 18	Date 10.02.21




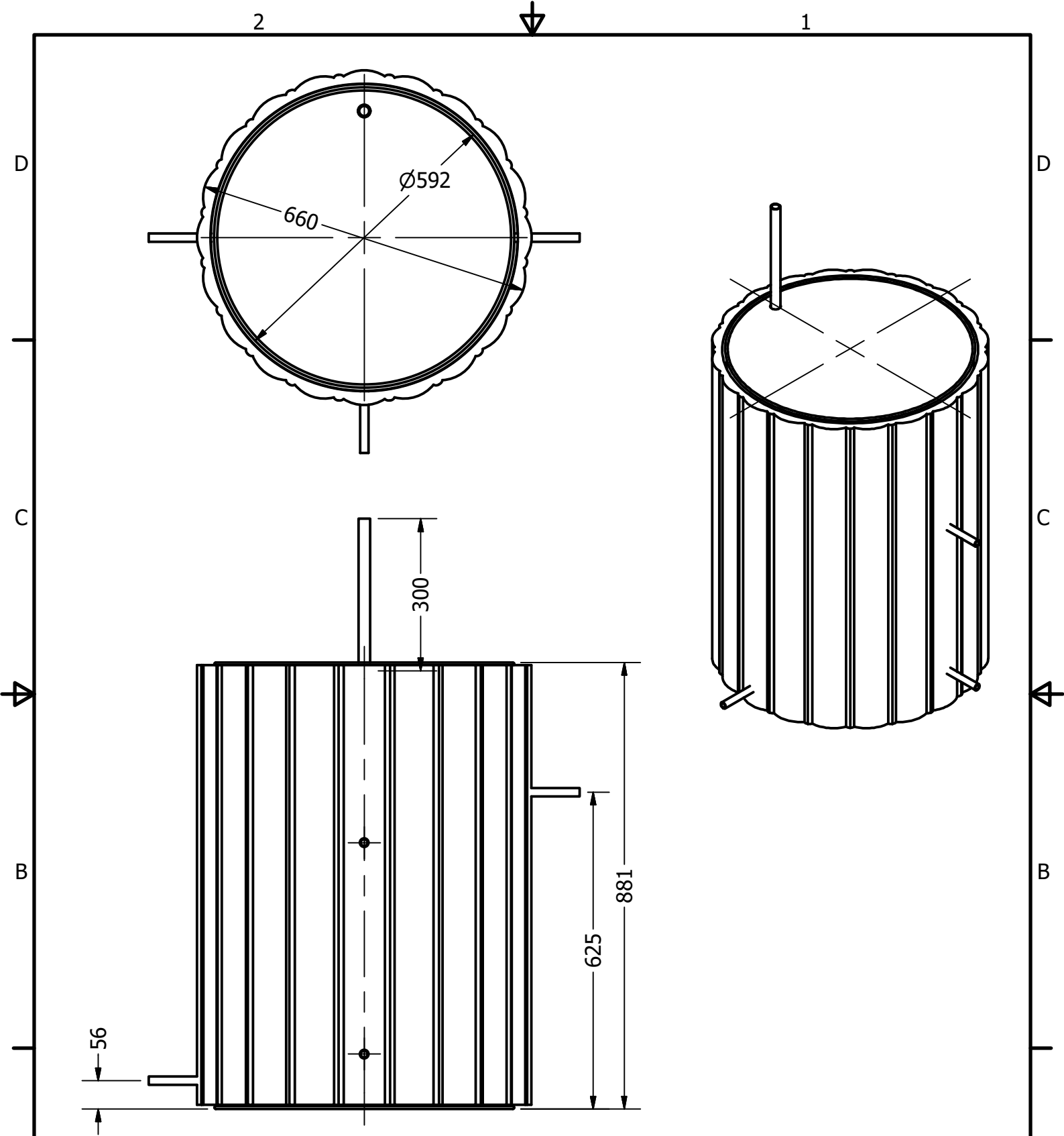
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name cover glass		Part Code 2.6		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_cover-glass.ipt		Version 1.0
				Scale 1 /10		Quantity 3
				Sheet 19	Date 10.02.21	




Proyect zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager		
Part Name rubber strip		Part Code 2.7	Document Type part	Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswb_rubber-strip.ipt		Version 1.0
			Scale 1 / 8	Sheet 20	Date 10.02.21



Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name angles section		Part Code 2.8	Document Type part		Material	
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				Scale 1 / 4	Sheet 21	Date 10.02.21



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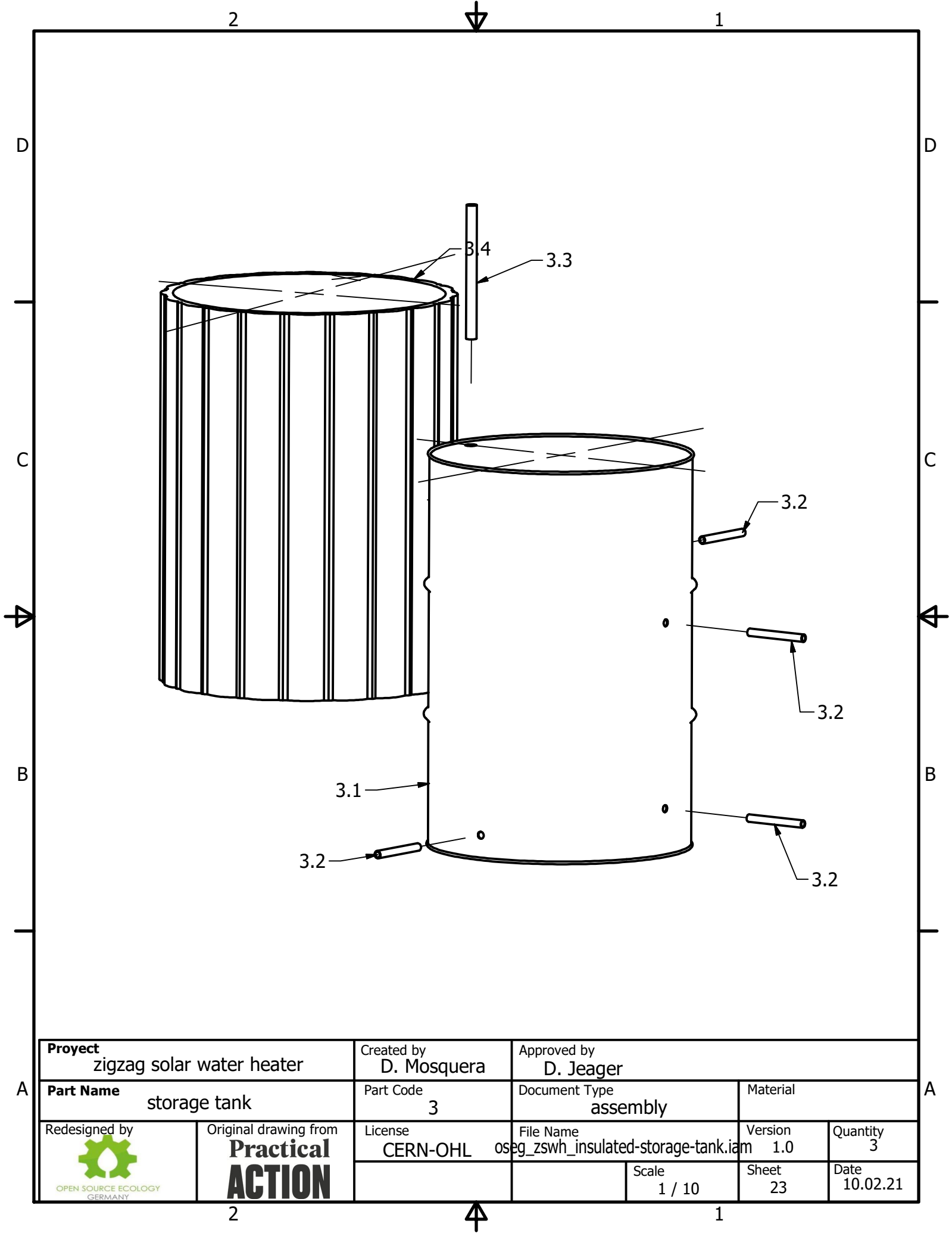
Proyect zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name insulated storage tank		Part Code 3		Document Type assembly		Material
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					Scale 1 / 10	Sheet 22


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A



Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name storage tank		Part Code 3	Document Type assembly		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_insulated-storage-tank.iam		Version 1.0	Quantity 3
				Scale 1 / 10	Sheet 23	Date 10.02.21

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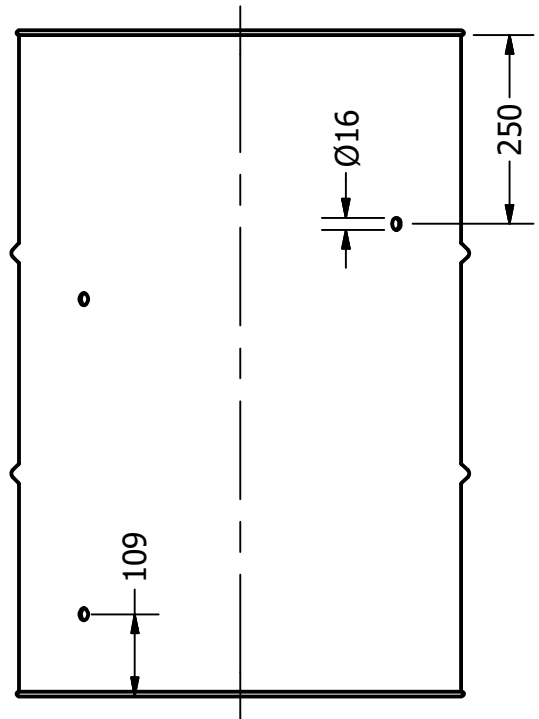
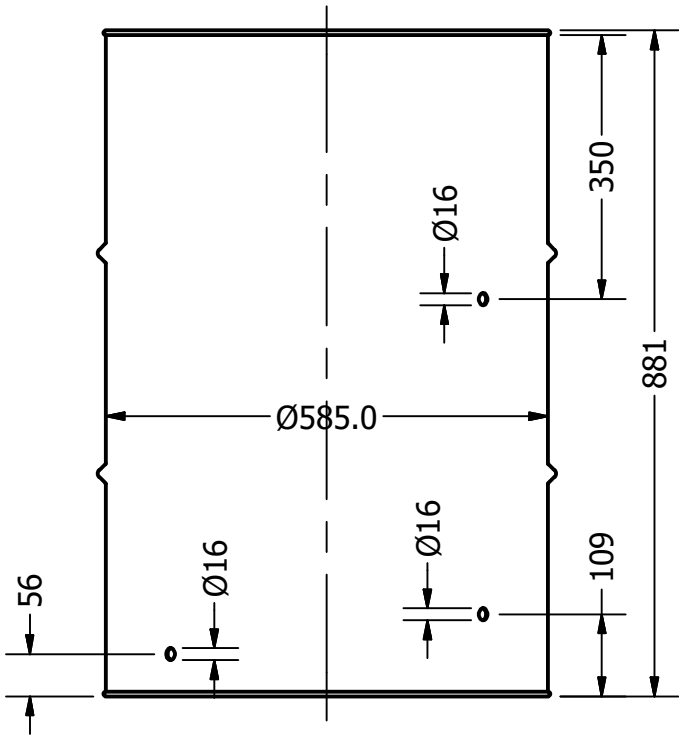
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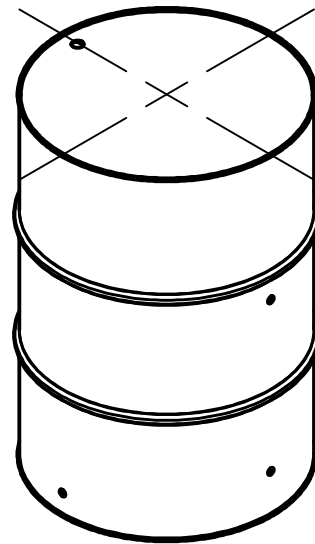
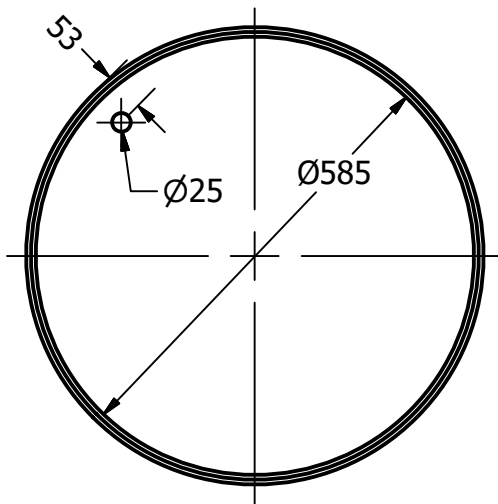
C

C



B

B



A

A

Proyect
zigzag solar water heater

Created by
D. Mosquera

Approved by
D. Jeager

Part Name
storage tank

Part Code
3.1

Document Type
part

Material

Redesigned by

Original drawing from

License
CERN-OHL

File Name
oseg_zsw_h_storage-tank.ipt

Version
1.0

Quantity
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**Practical
ACTION**

Scale
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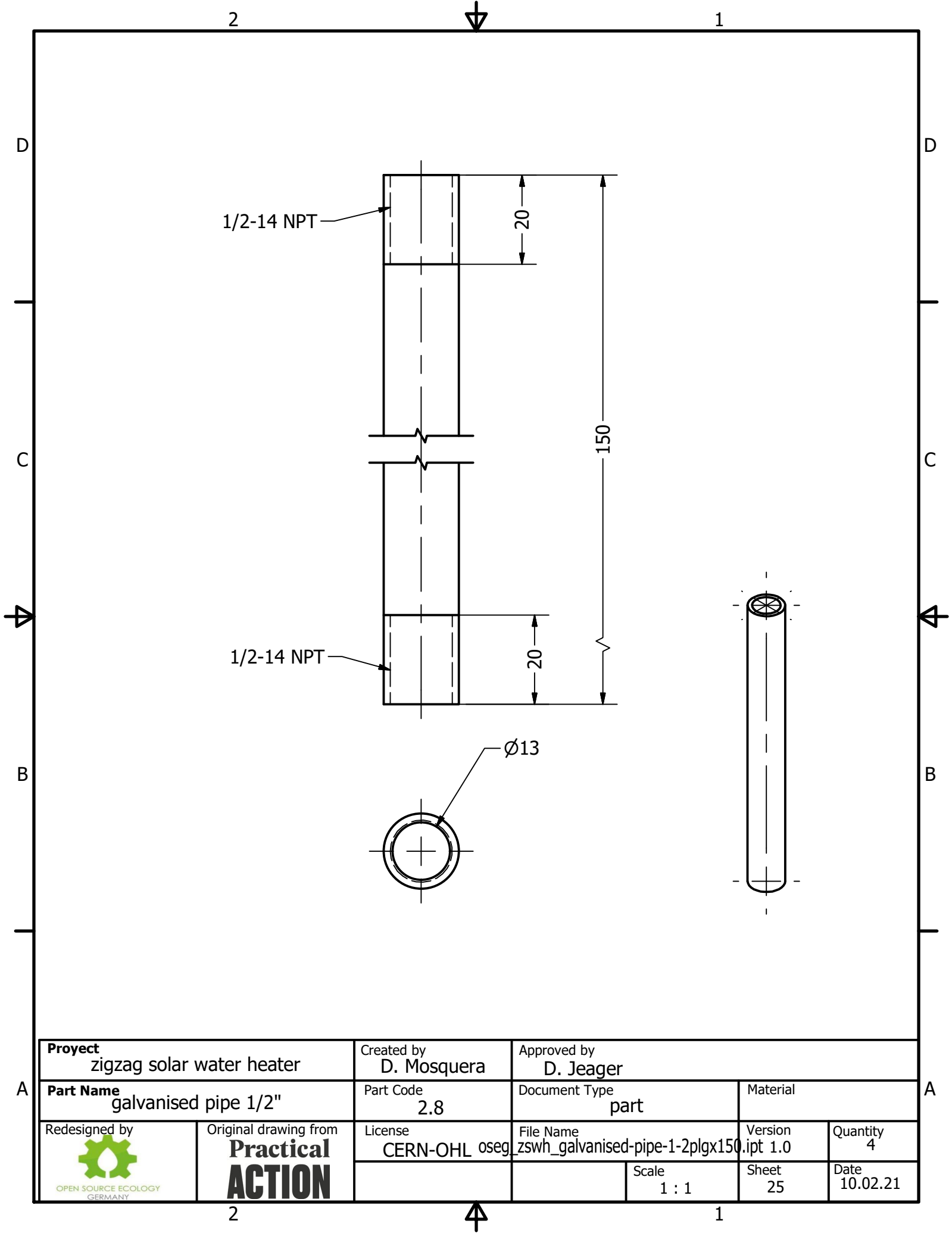
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Date
10.02.21

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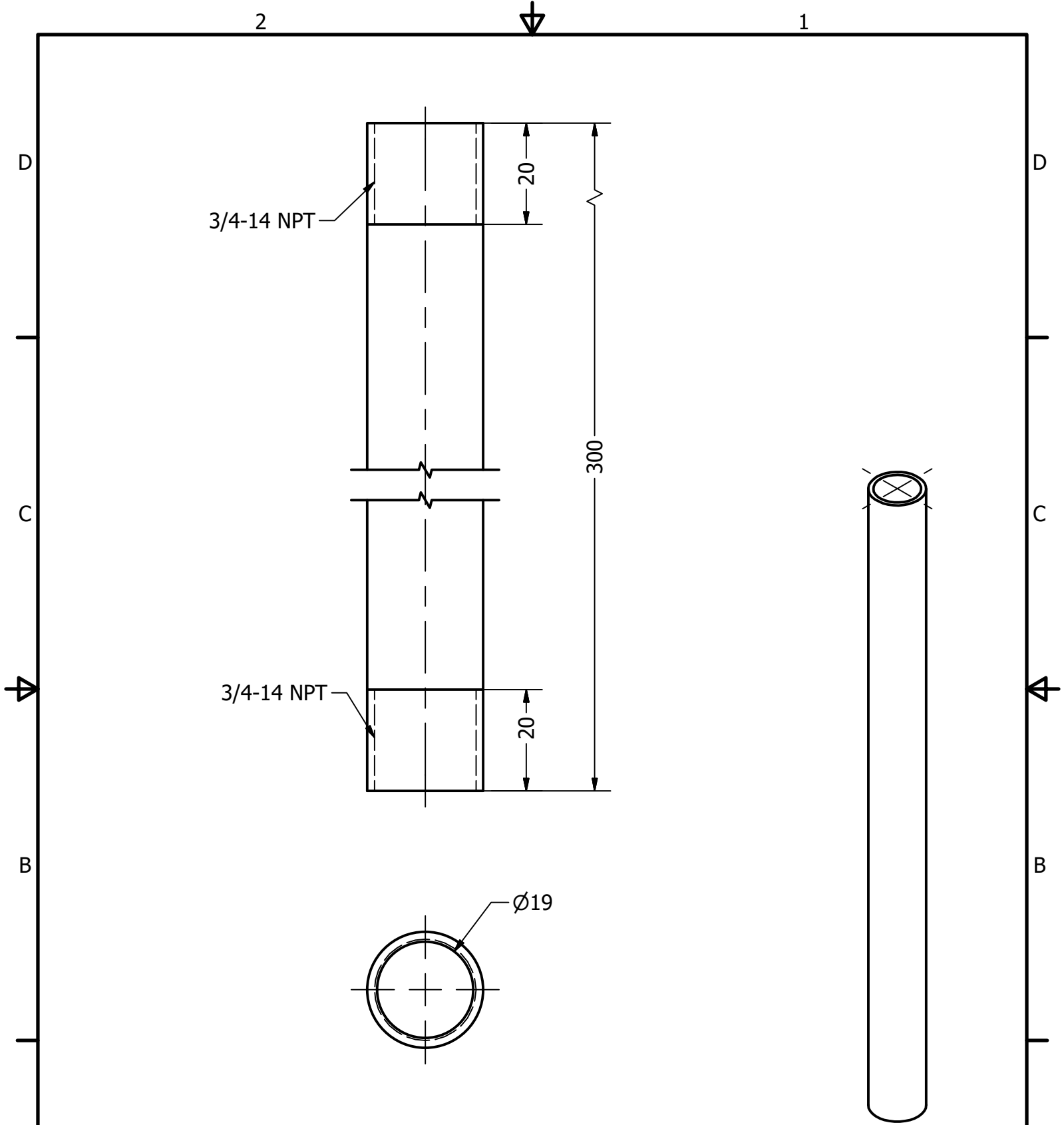
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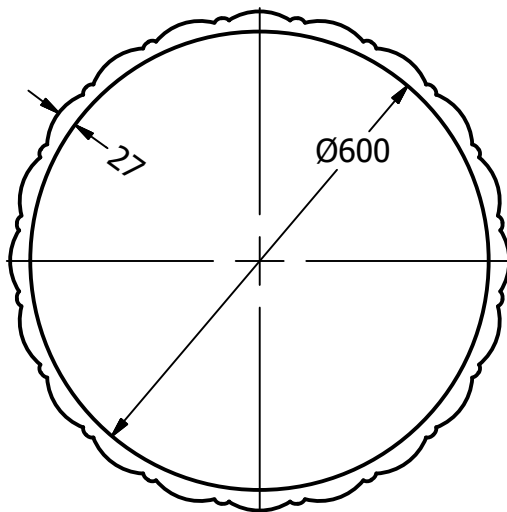
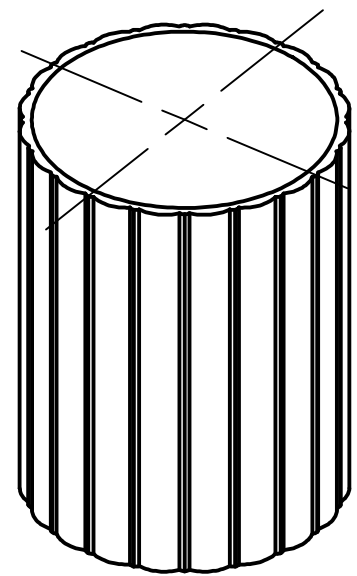
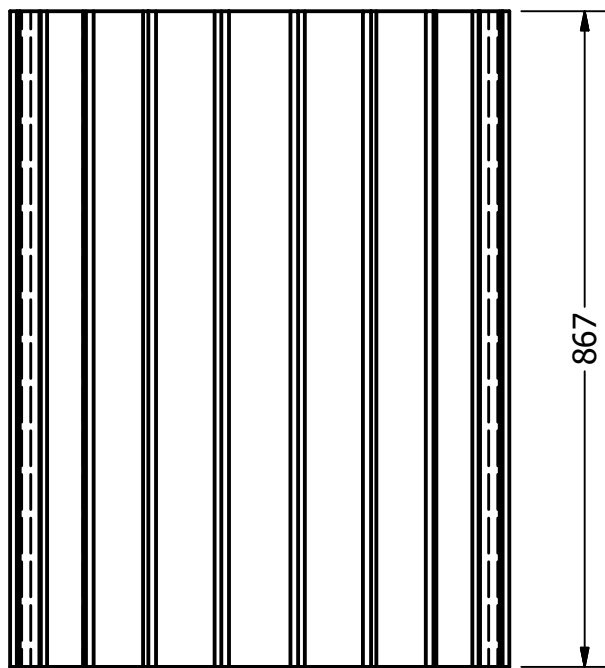
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name galvanised pipe 1/2"		Part Code 2.8		Document Type part		Material
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHL oseg		File Name zsw_h_galvanised-pipe-1-2plgx150.ipt		Version 1.0
						Quantity 4
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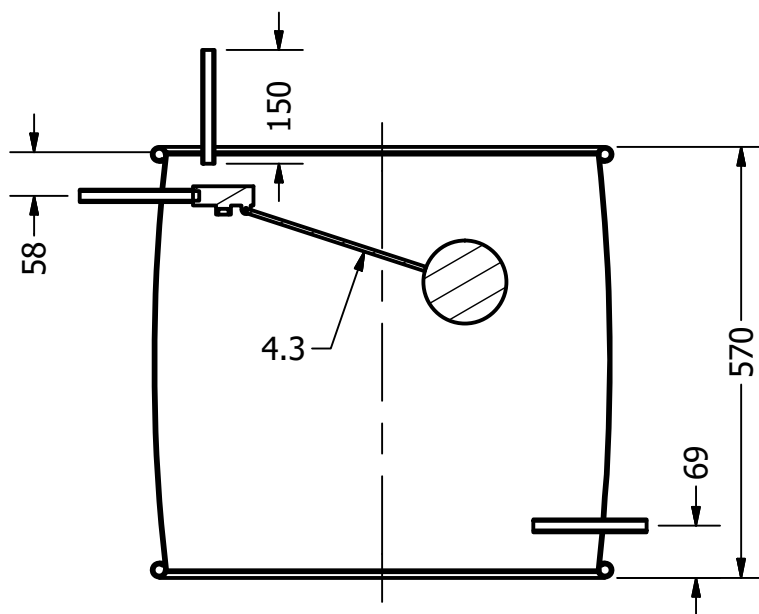
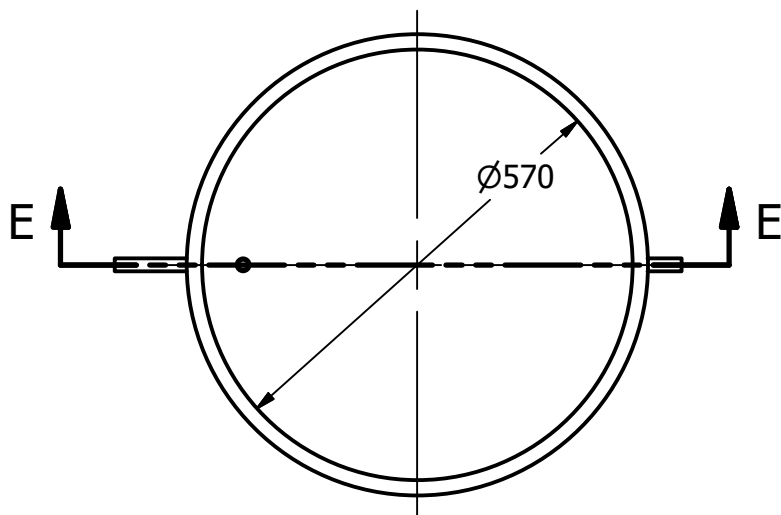


Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name galvanised pipe 3/4"		Part Code 3.3		Document Type part		Material
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHL oseg		File Name zsw_h_galvanised-pipe-3-4plgx300.ipt		Version 1.0
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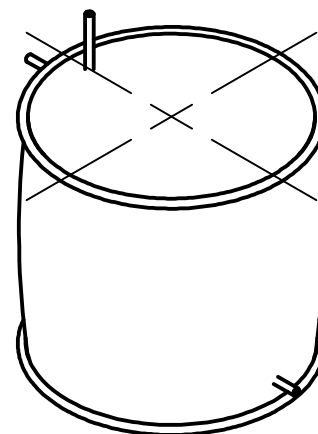



NOTE: empty bags of fibre with sawdust, Coconut-fibre, glass-wool or any kind of other insulating material.

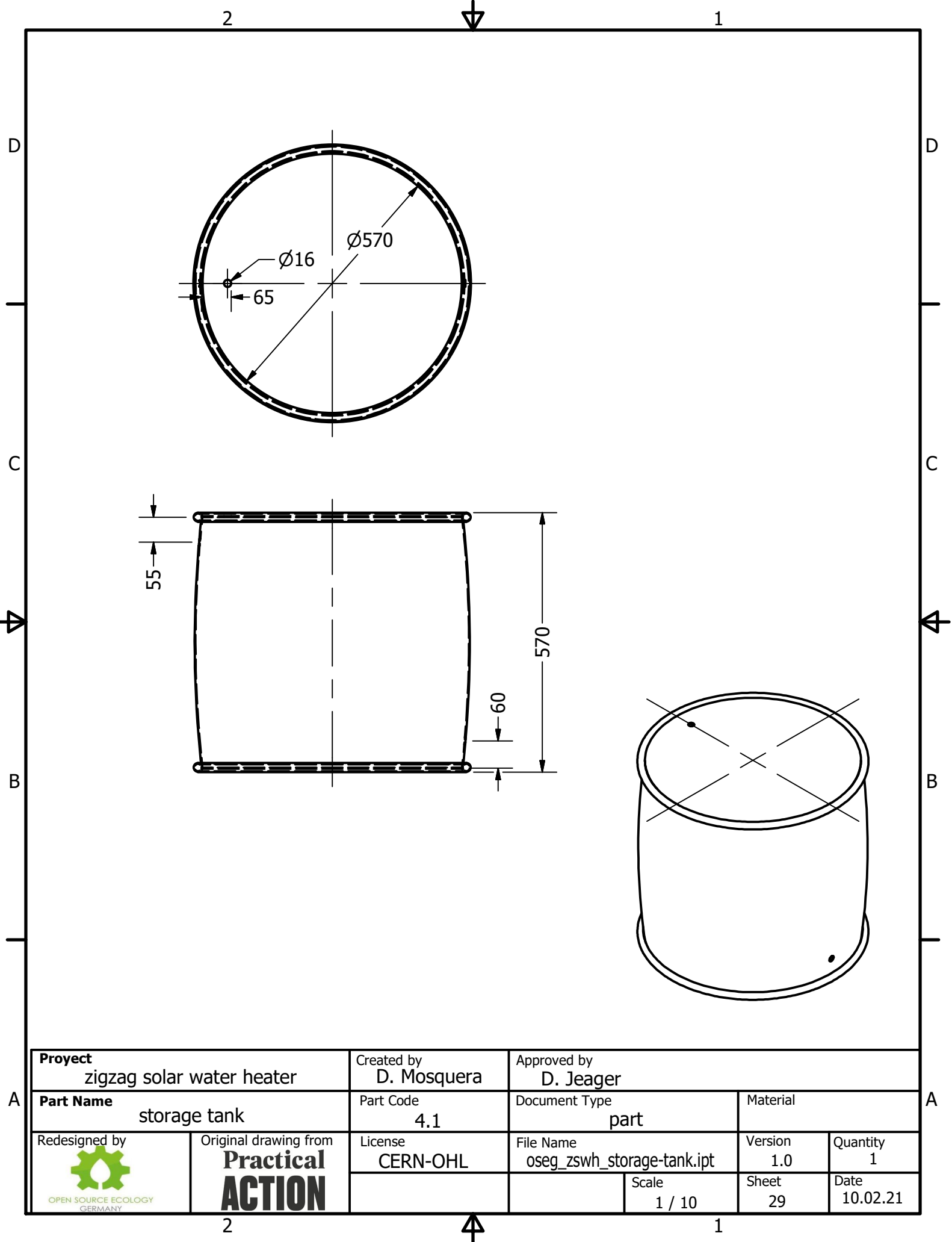
Proyect zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager		
Part Name insulating material		Part Code 3.4	Document Type part	Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_insulating-material2.ip	Version 1.0	Quantity 1
				Scale 1 / 10	Date 10.02.21




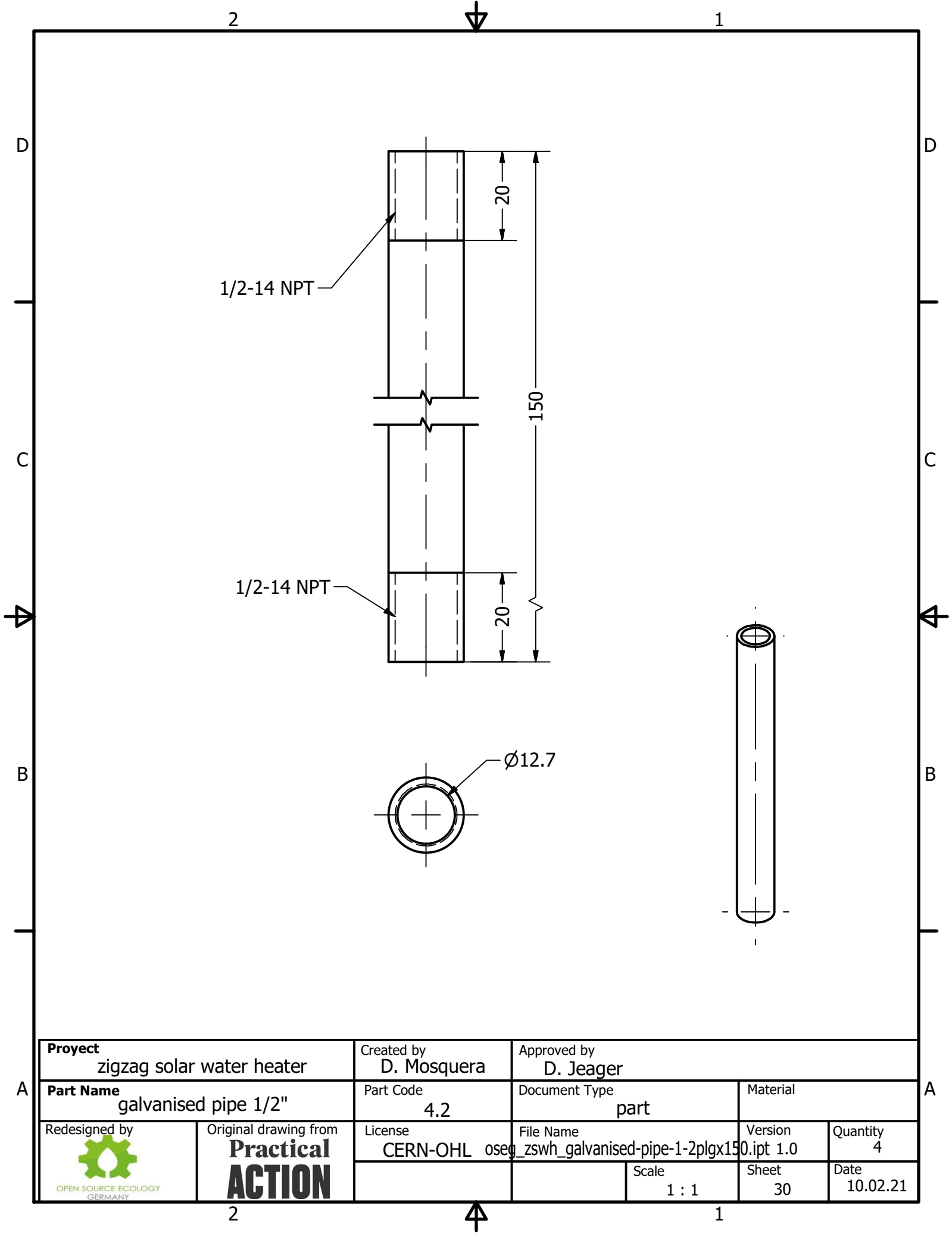
SECTION E-E




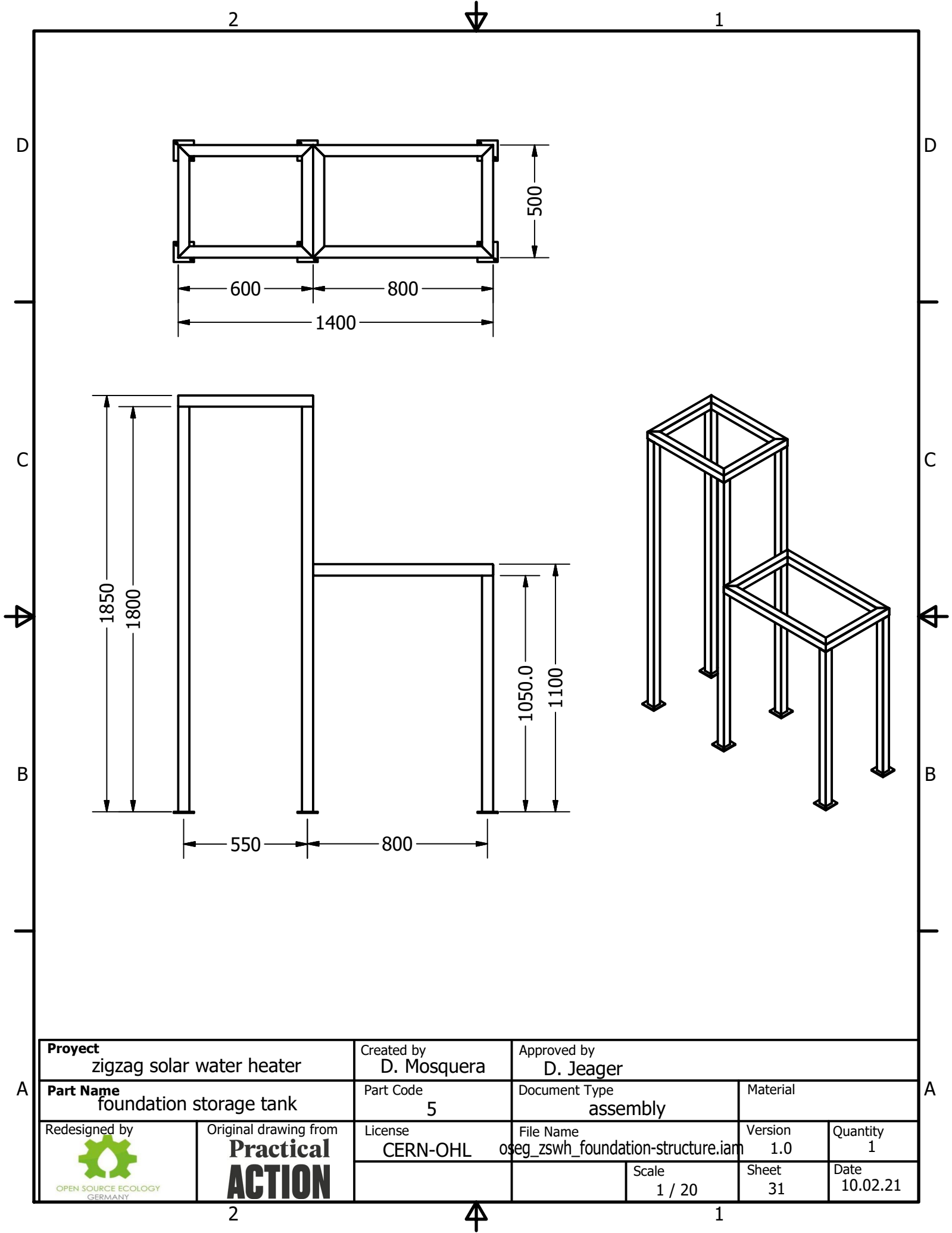
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager			
Part Name the buffer tank		Part Code 4		Document Type assembly		Material	
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHL		File Name oseg_zswh_the-buffer-tank.iam		Version 1.0	Quantity 1
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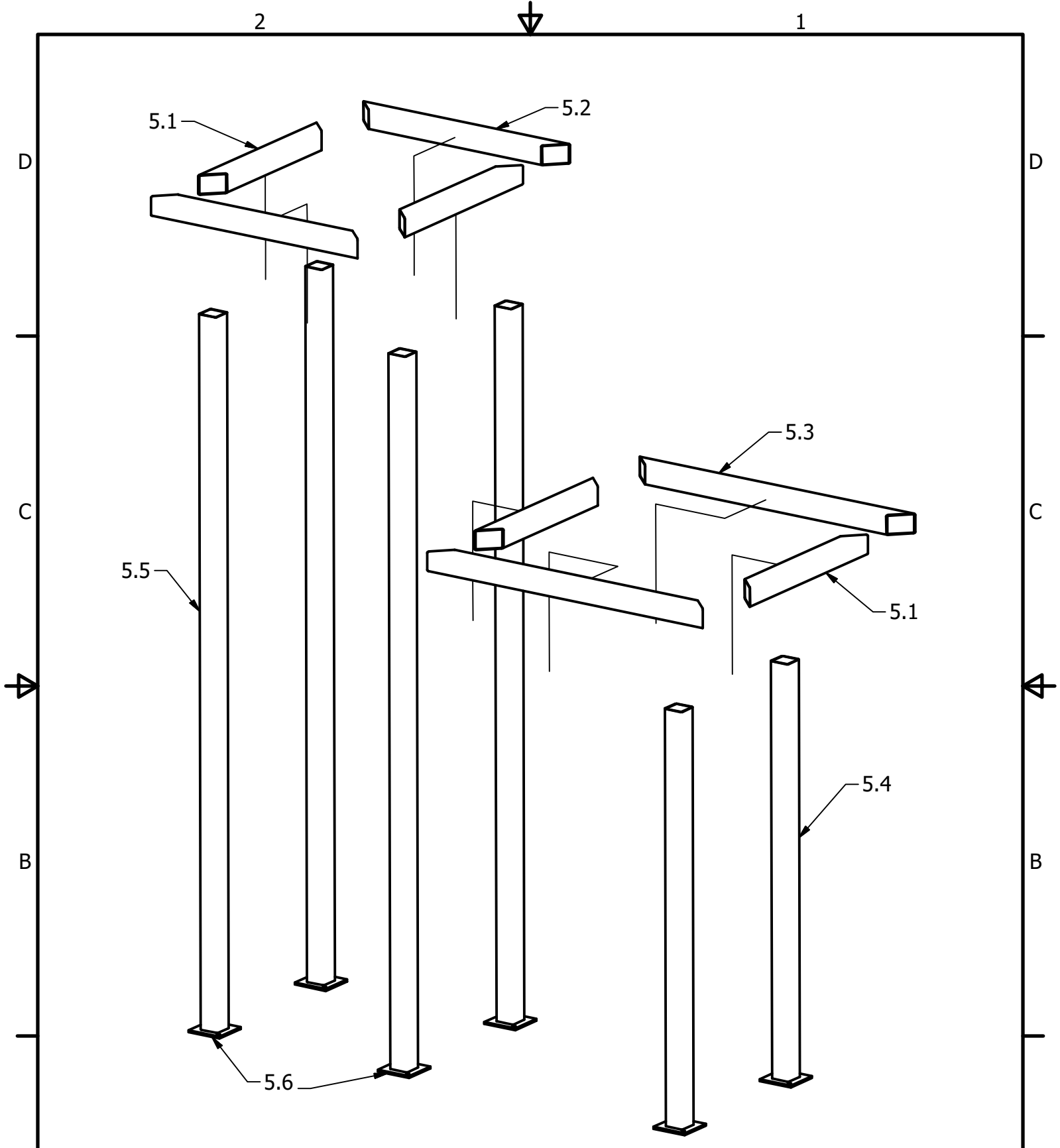
Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name storage tank		Part Code 4.1	Document Type part		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_storage-tank.ipt		Version 1.0	Quantity 1
				Scale 1 / 10	Sheet 29	Date 10.02.21



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name galvanised pipe 1/2"		Part Code 4.2		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL oseq_zswh_galvanised-pipe-1-2plgx150		File Name oseq_zswh_galvanised-pipe-1-2plgx150.ipt		Version 1.0
						Quantity 4
				Scale 1 : 1		Sheet 30
						Date 10.02.21




Proyect zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager		
Part Name foundation storage tank		Part Code 5	Document Type assembly	Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_foundation-structure.iam	Version 1.0	Quantity 1
				Sheet 31	Date 10.02.21



A

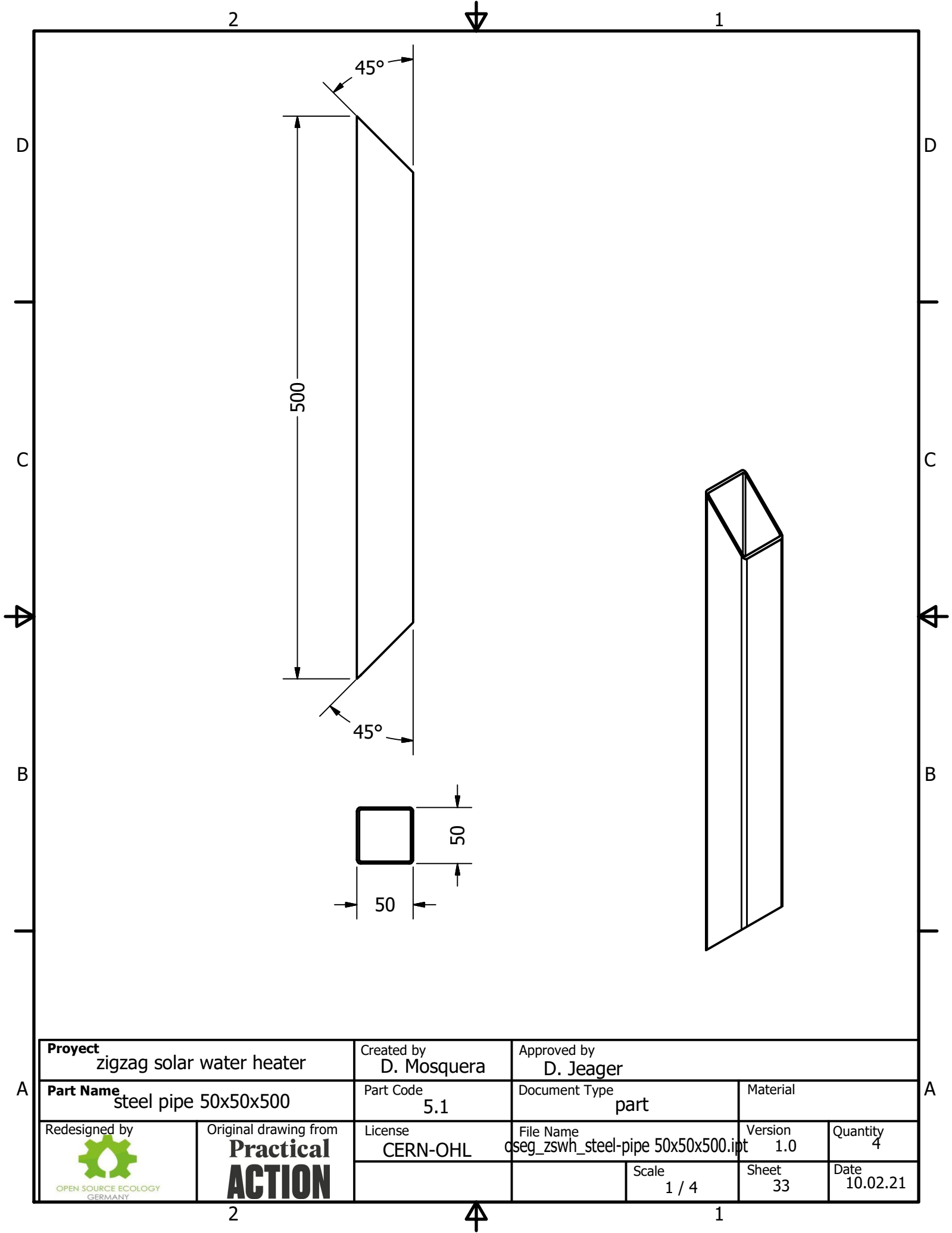
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Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name foundation storage tank		Part Code 5		Document Type assembly		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_foundation-structure.iam		Version 1.0
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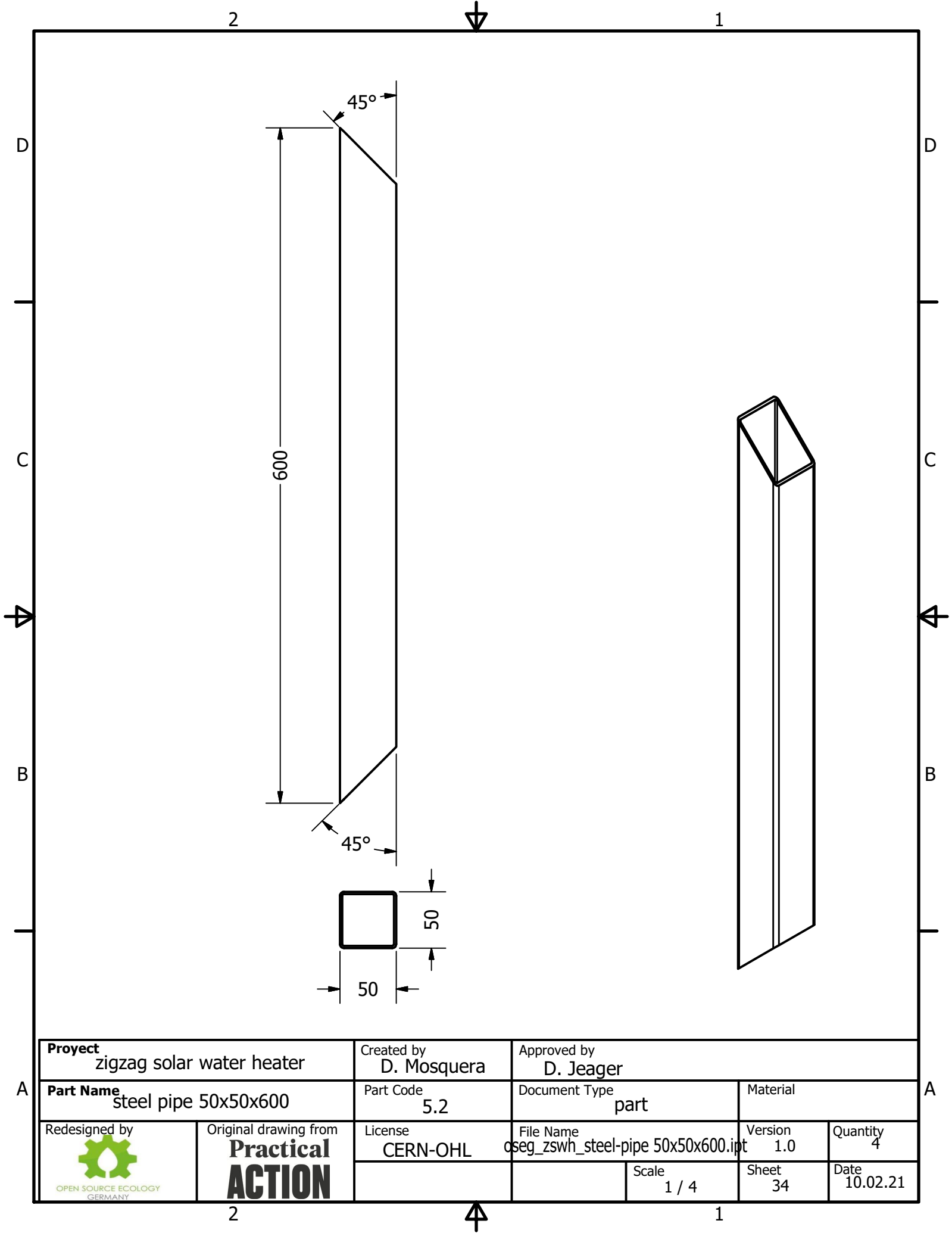
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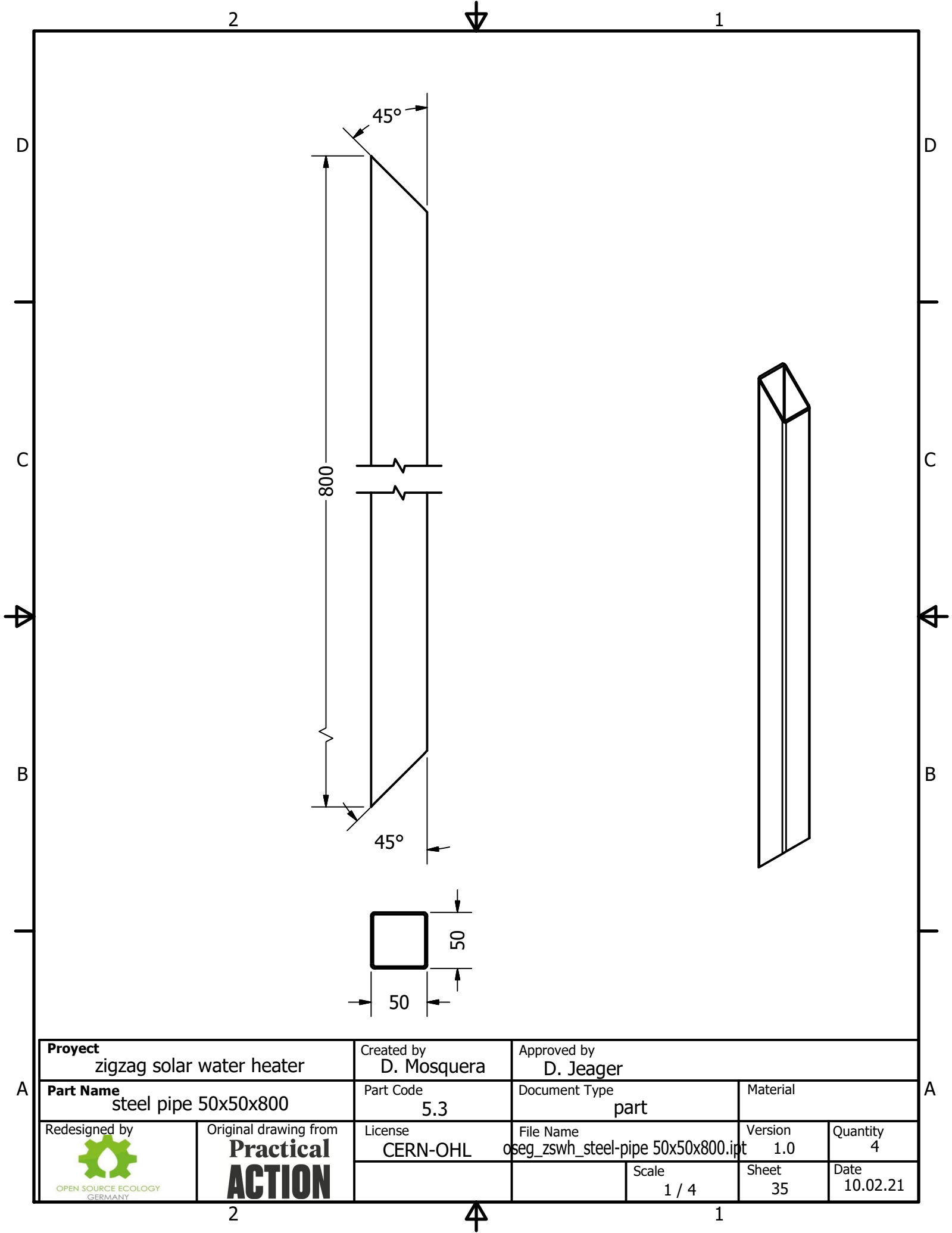
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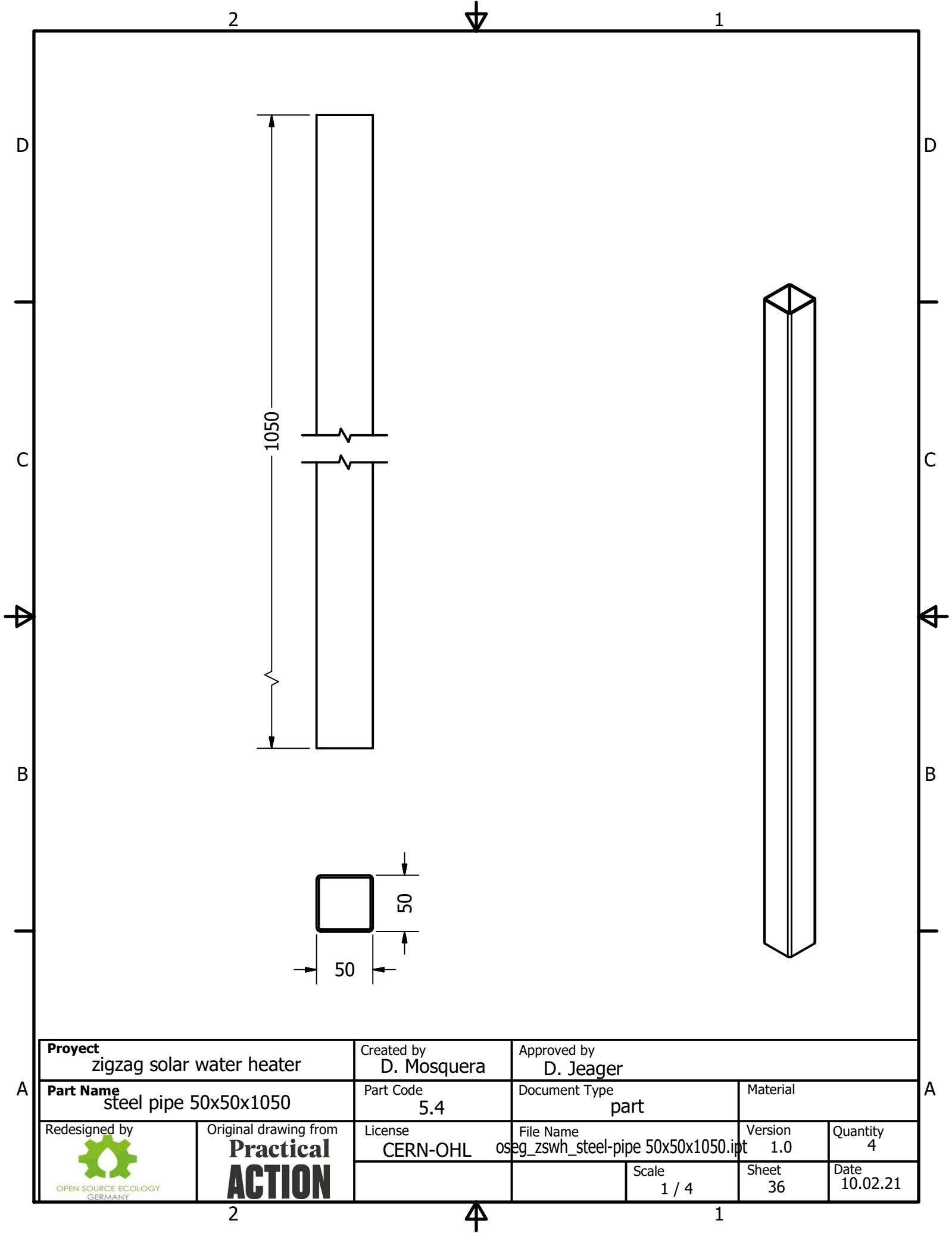
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name steel pipe 50x50x500		Part Code 5.1		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_steel-pipe 50x50x500.ipt		Version 1.0	Quantity 4
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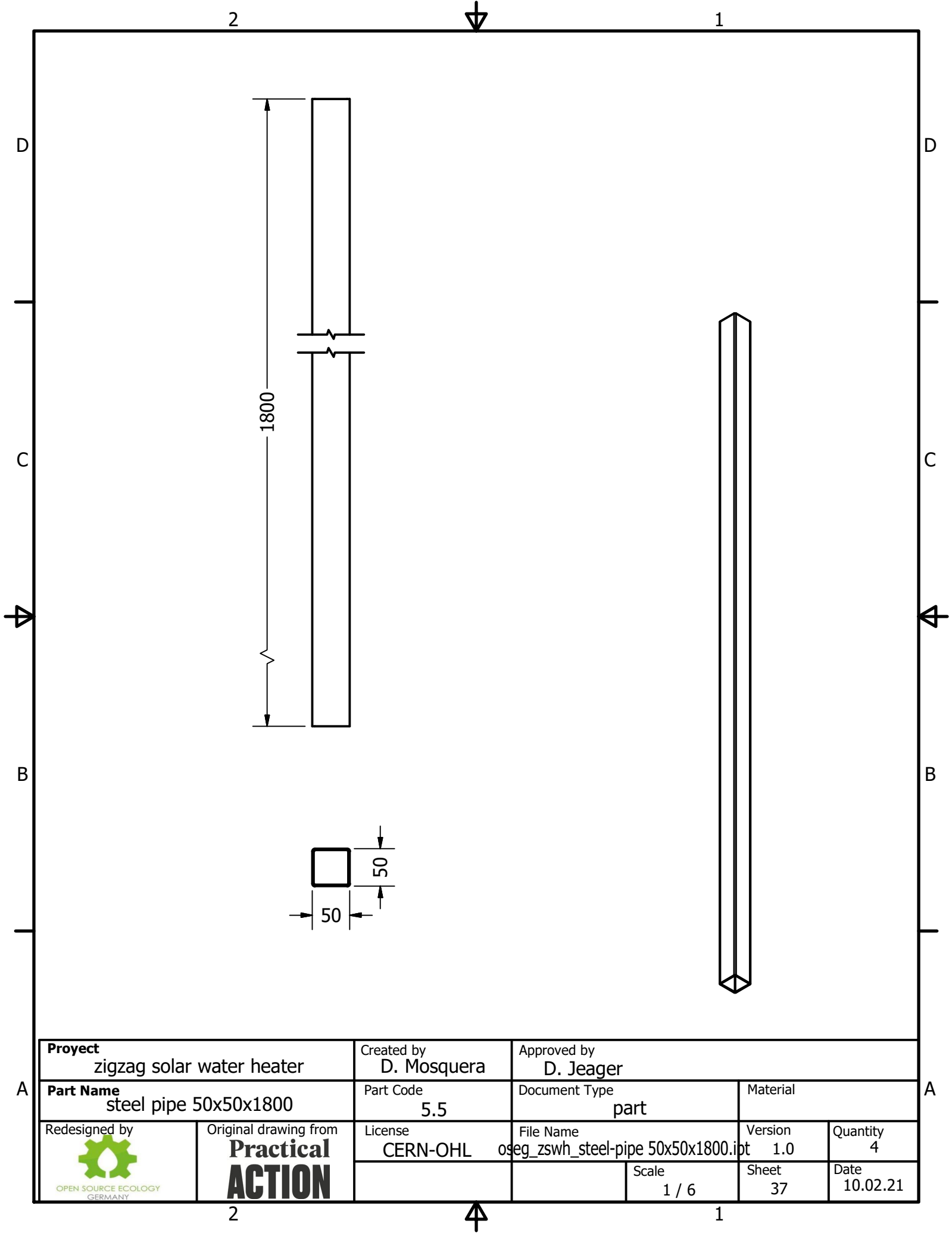
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name steel pipe 50x50x600		Part Code 5.2		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswh_steel-pipe 50x50x600.ipt		Version 1.0	Quantity 4
				Scale 1 / 4	Sheet 34	Date 10.02.21



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name steel pipe 50x50x800		Part Code 5.3		Document Type part		Material
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHL		File Name oseg_zswh_steel-pipe 50x50x800.ipt		Version 1.0
					Scale 1 / 4	Sheet 35
						Date 10.02.21



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager			
Part Name steel pipe 50x50x1050		Part Code 5.4		Document Type part		Material	
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_steel-pipe 50x50x1050.ipt		Version 1.0	Quantity 4
				Scale 1 / 4	Sheet 36	Date 10.02.21	



2

1

D

D

C

C

B

B


A

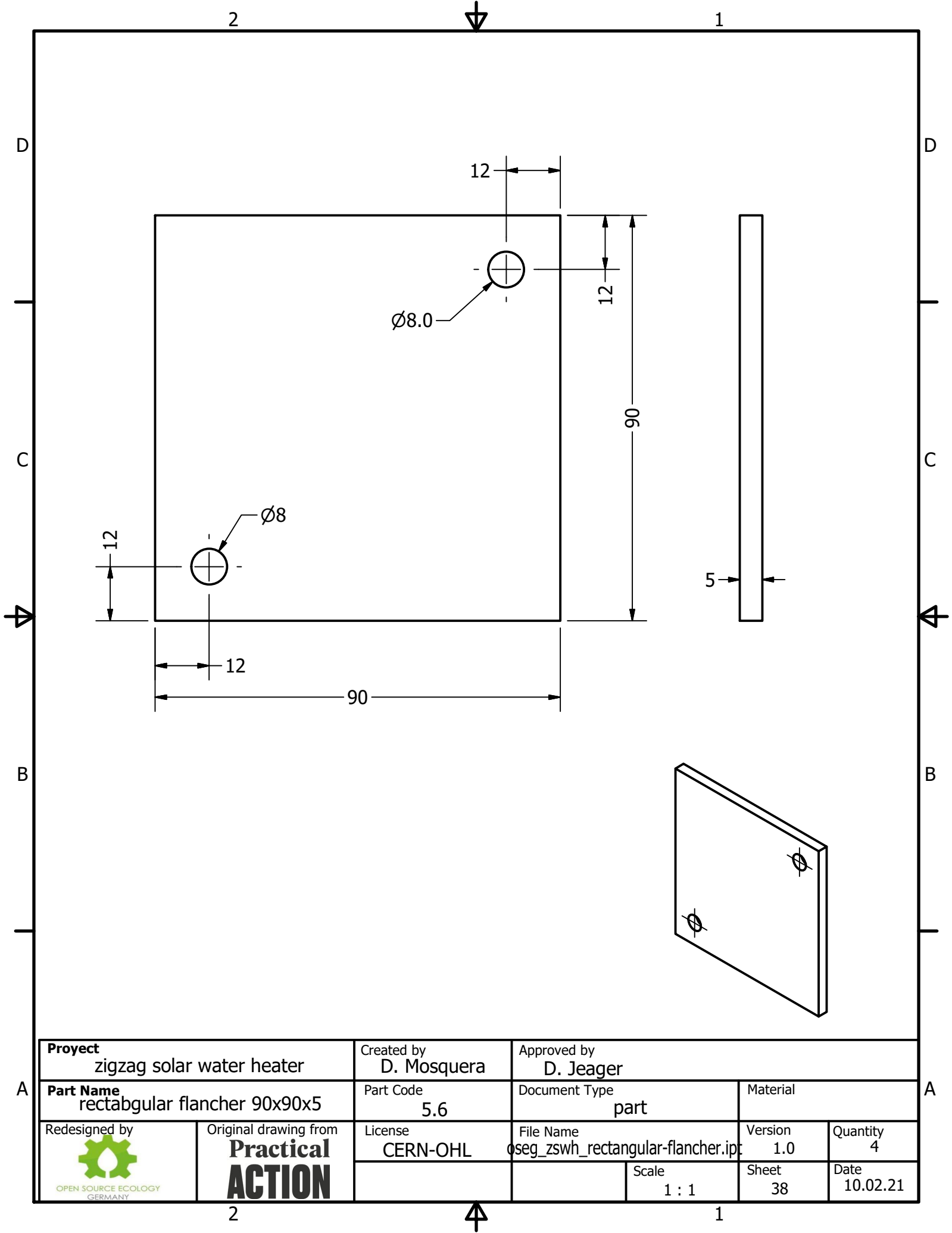
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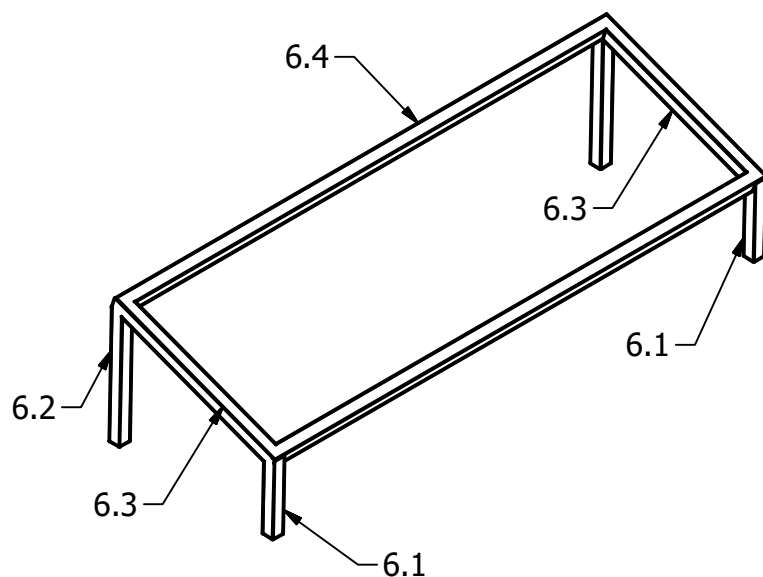
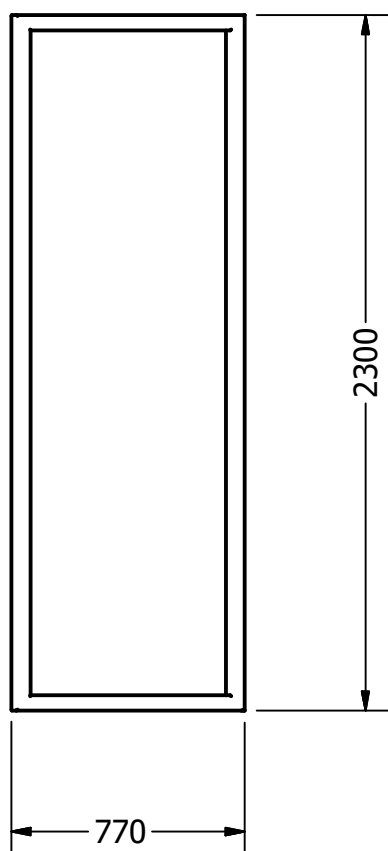
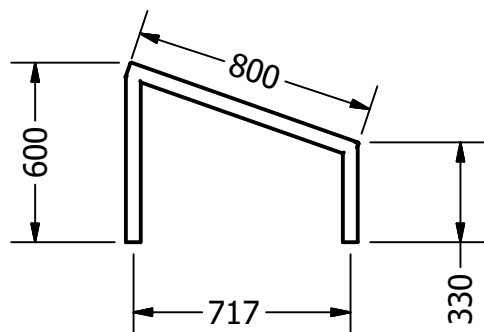
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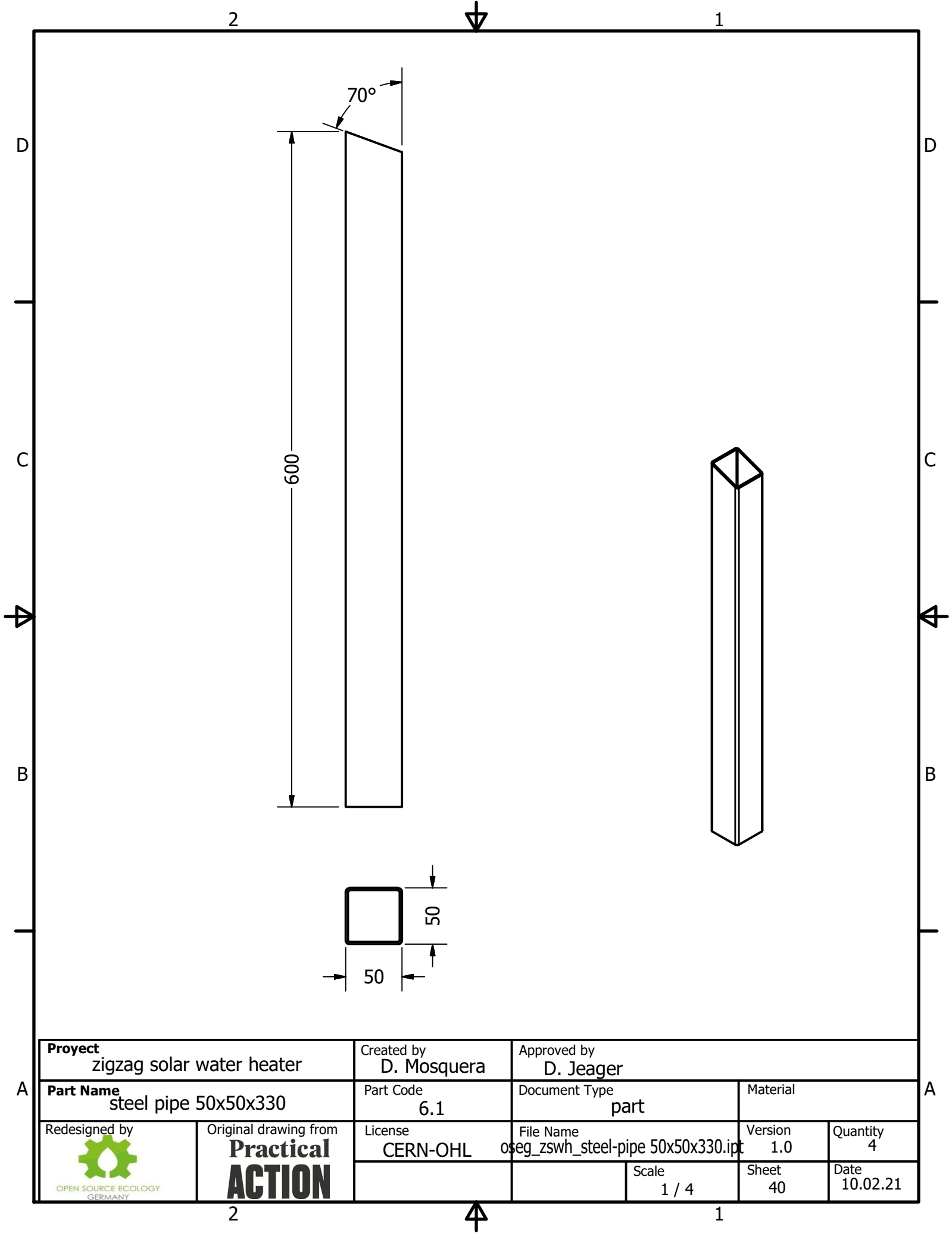
Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager	
Part Name steel pipe 50x50x1800		Part Code 5.5		Document Type part	
Material					
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				</	




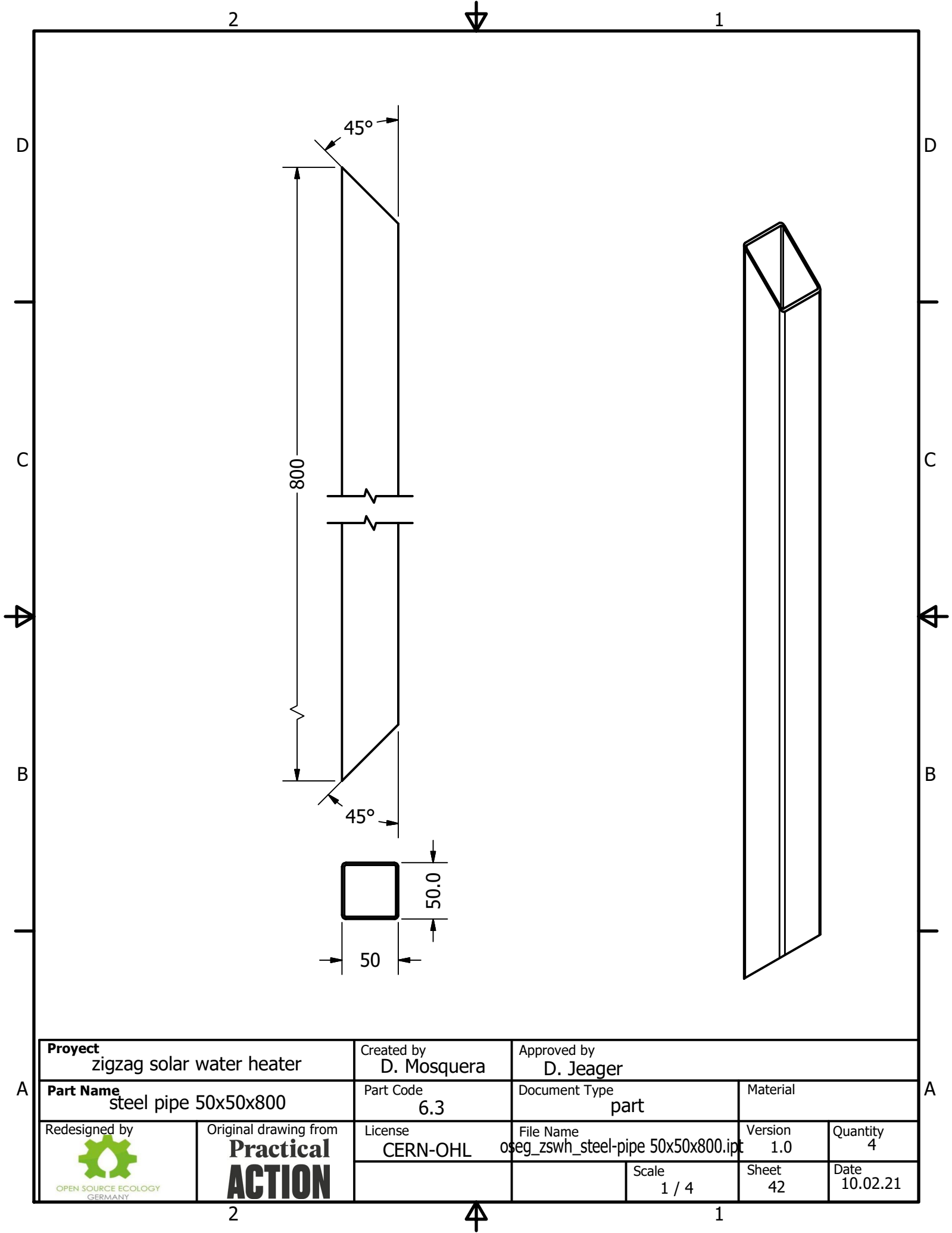
Proyect zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager		
Part Name rectabgular flancher 90x90x5		Part Code 5.6	Document Type part	Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zsw_h_rectangular-flancher.ipc	Version 1.0	Quantity 4
				Sheet 38	Date 10.02.21




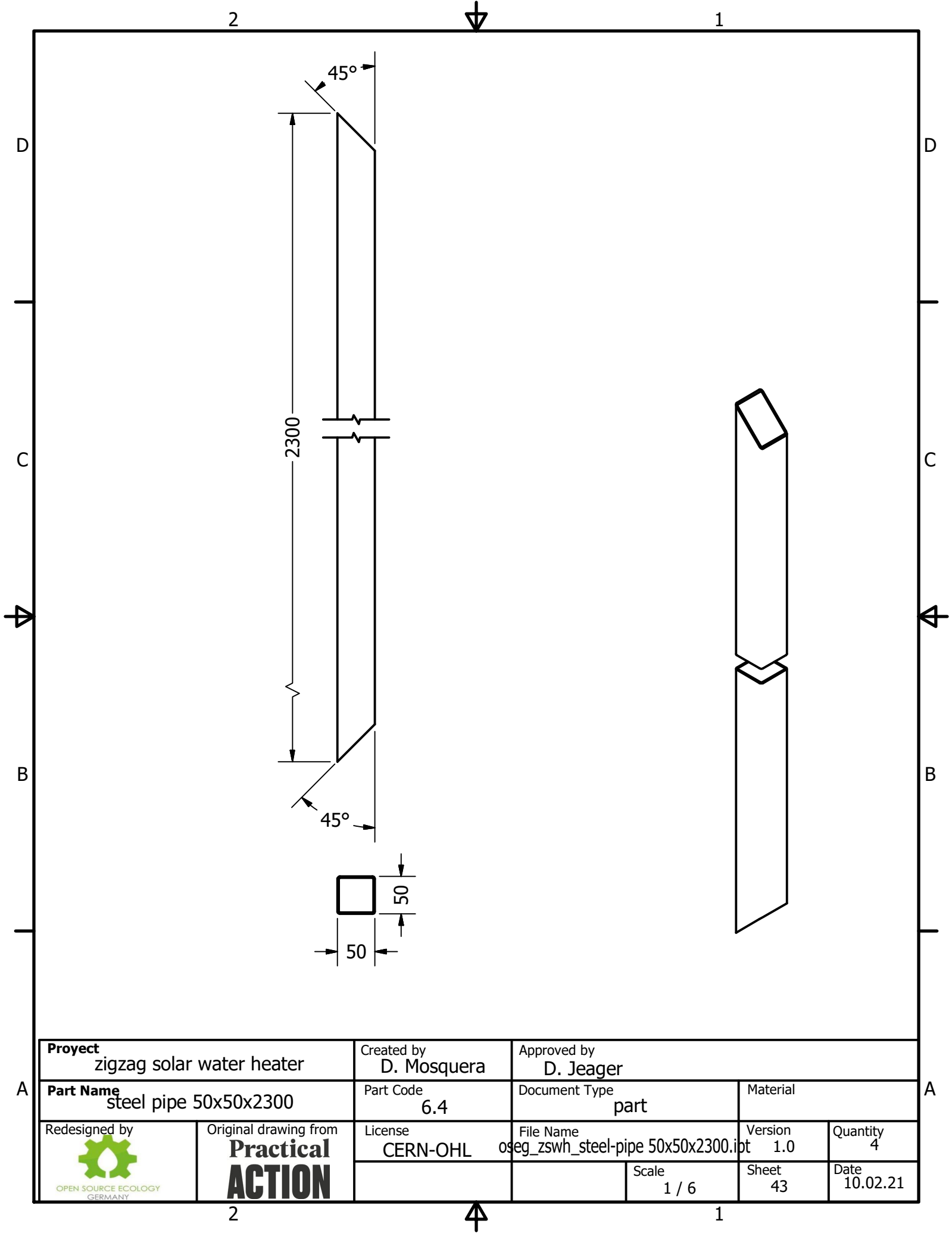
Project zigzag solar water heater		Created by D. Mosquera	Approved by D. Jeager			
Part Name foundation storage tank		Part Code 6	Document Type assembly		Material	
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL	File Name oseg_zswh_base-collector.ipt		Version 1.0	Quantity 1
				Scale 1 / 25	Sheet 39	Date 10.02.21




Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager			
Part Name steel pipe 50x50x330		Part Code 6.1		Document Type part		Material	
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_steel-pipe 50x50x330.ipt		Version 1.0	Quantity 4
				Scale 1 / 4	Sheet 40	Date 10.02.21	



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager		
Part Name steel pipe 50x50x800		Part Code 6.3		Document Type part		Material
Redesigned by  OPEN SOURCE ECOLOGY GERMANY	Original drawing from Practical ACTION	License CERN-OHL		File Name oseg_zswh_steel-pipe 50x50x800.ipt		Version 1.0
				Scale 1 / 4	Sheet 42	Quantity 4
						Date 10.02.21



Project zigzag solar water heater		Created by D. Mosquera		Approved by D. Jeager			
Part Name steel pipe 50x50x2300		Part Code 6.4		Document Type part		Material	
<div>Redesigned by</div> <div></div> <div>OPEN SOURCE ECOLOGY GERMANY</div>	<div>Original drawing from</div> <div>Practical ACTION</div>	License CERN-OHL		File Name oseg_zsw_h_steel-pipe 50x50x2300.ipt		Version 1.0	Quantity 4
					Scale 1 / 6	Sheet 43	Date 10.02.21