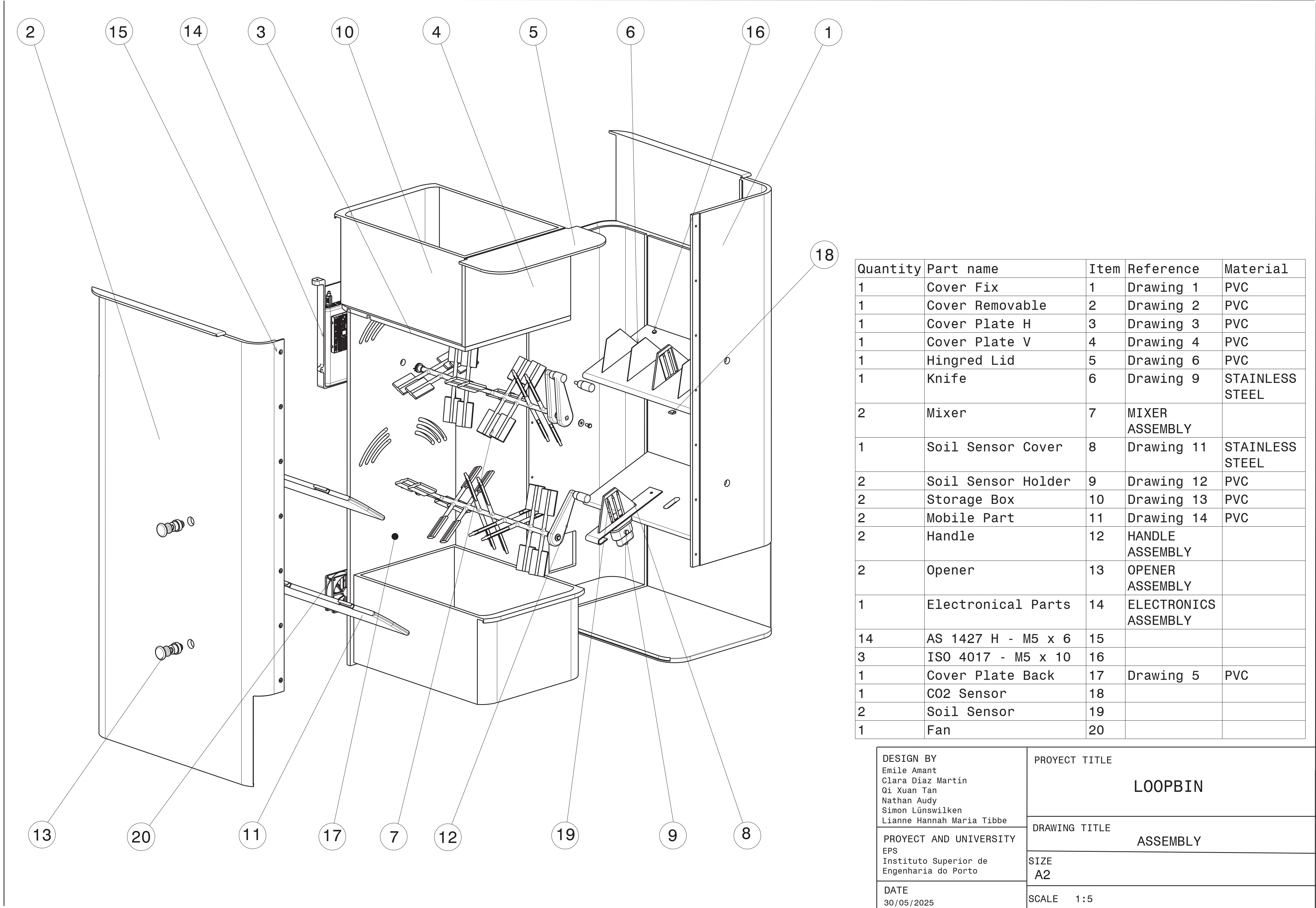
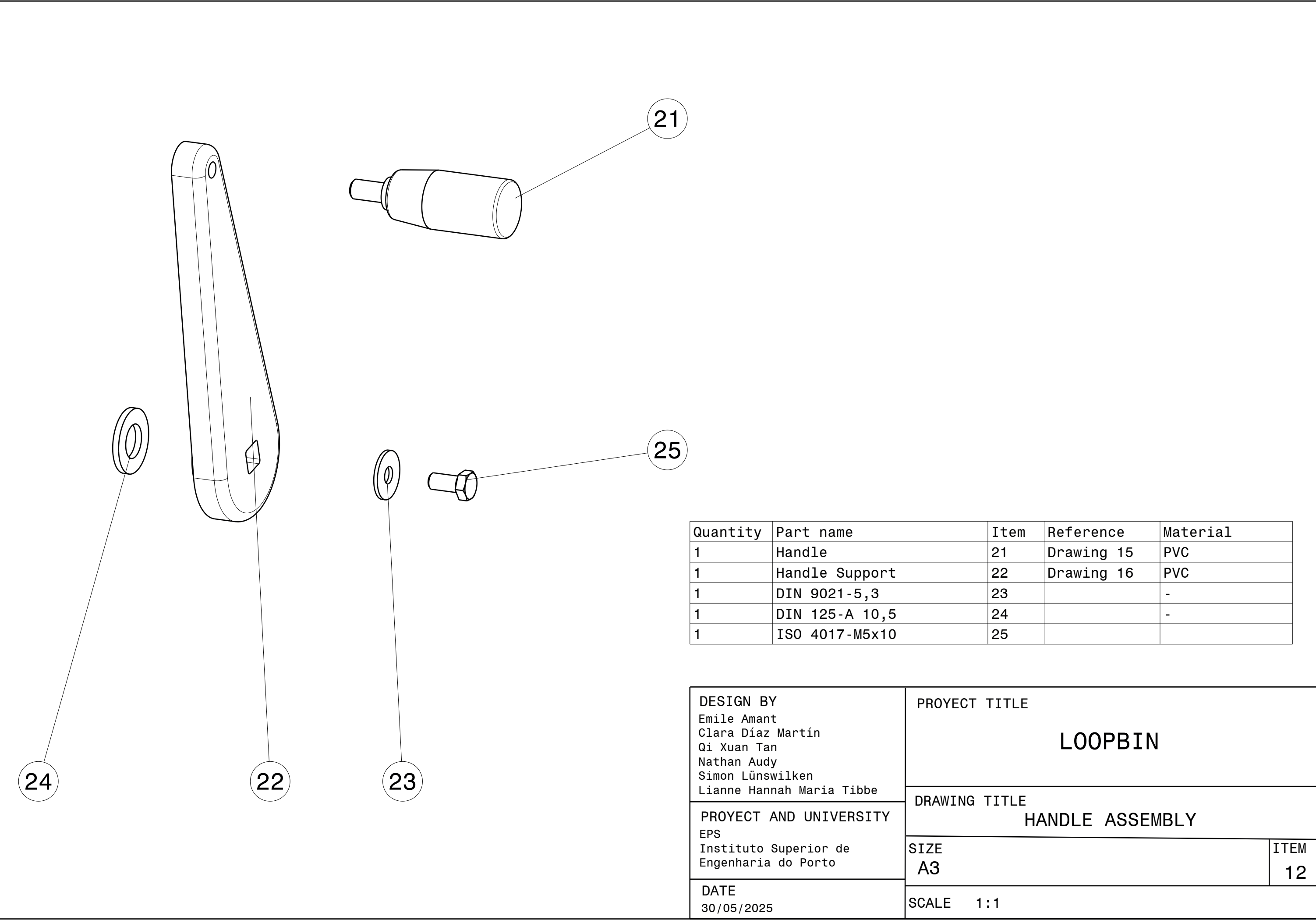
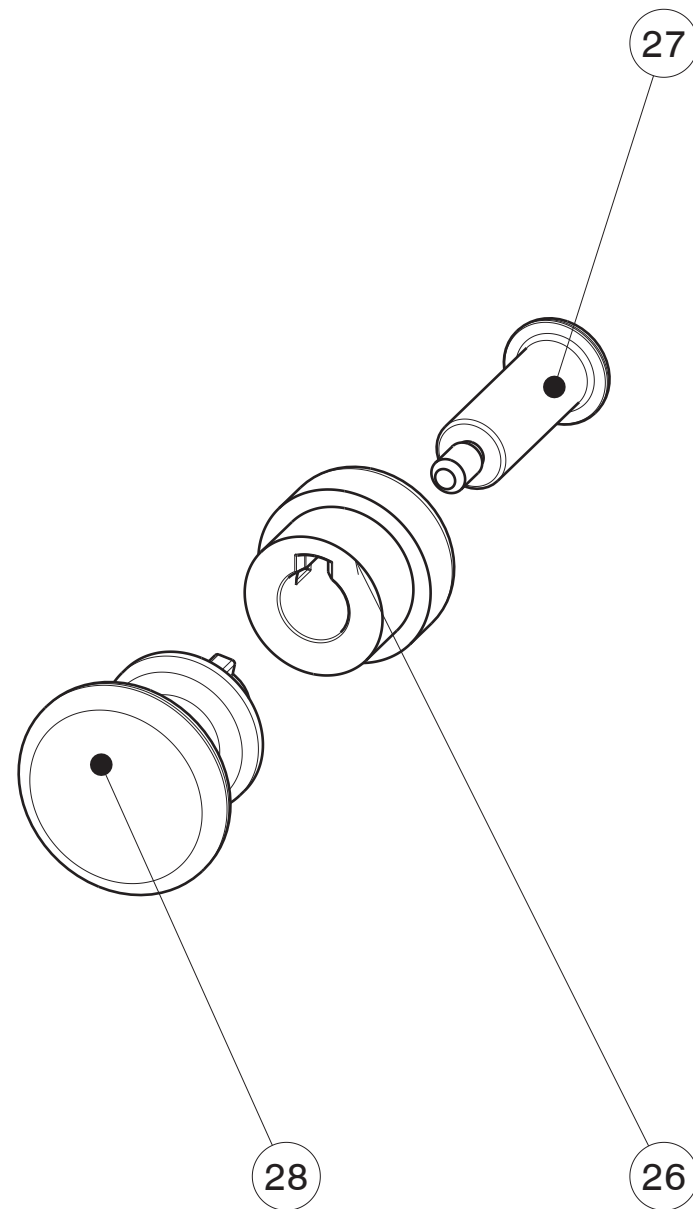






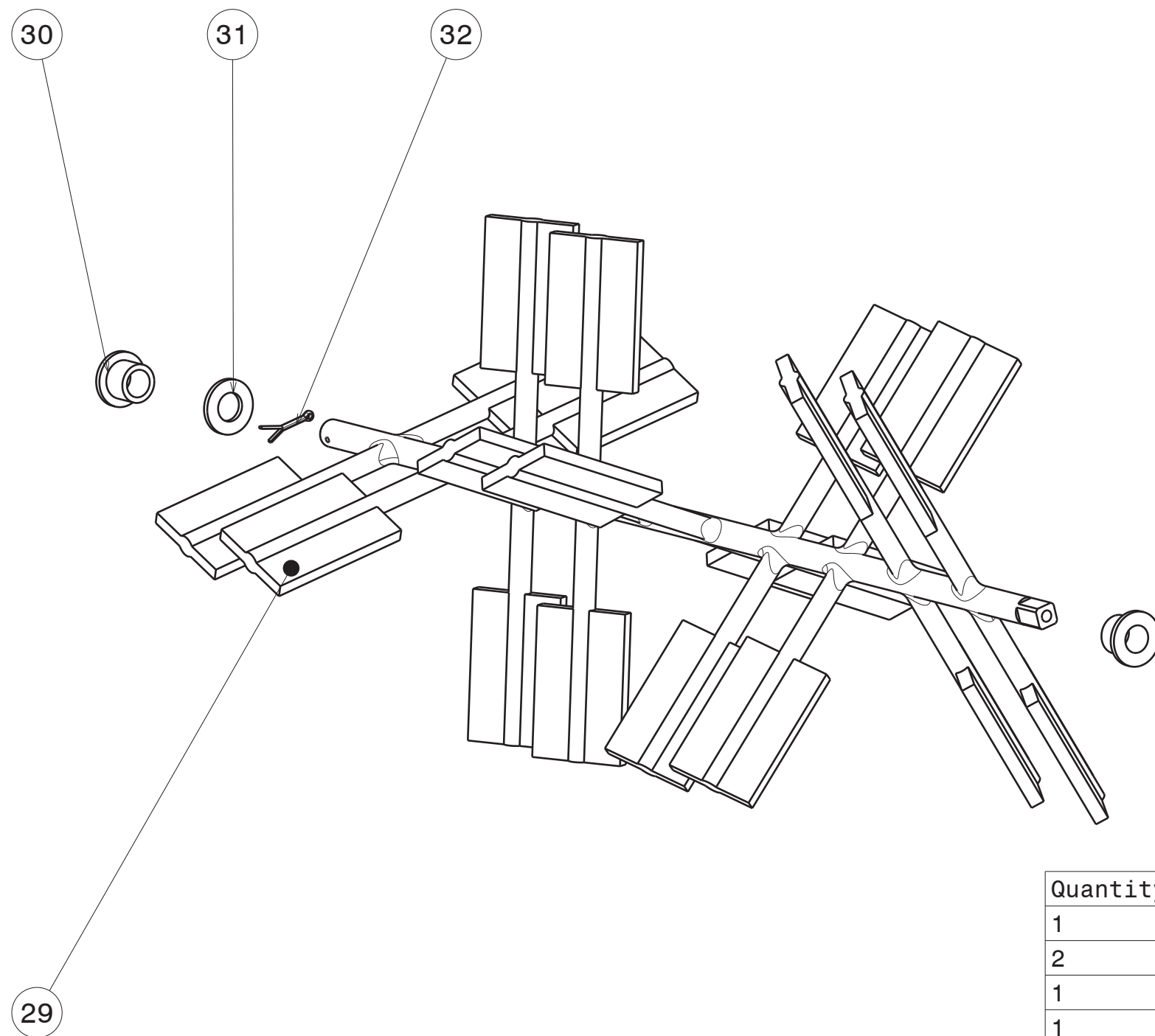
Quantity	Part name	Item	Reference	Material
1	Handle	21	Drawing 15	PVC
1	Handle Support	22	Drawing 16	PVC
1	DIN 9021-5,3	23		-
1	DIN 125-A 10,5	24		-
1	ISO 4017-M5x10	25		

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto DATE 30/05/2025	PROYECT TITLE		
	LOOPBIN		
	DRAWING TITLE		
	HANDLE ASSEMBLY		
	SIZE		ITEM
	A3		12
		SCALE 1:1	



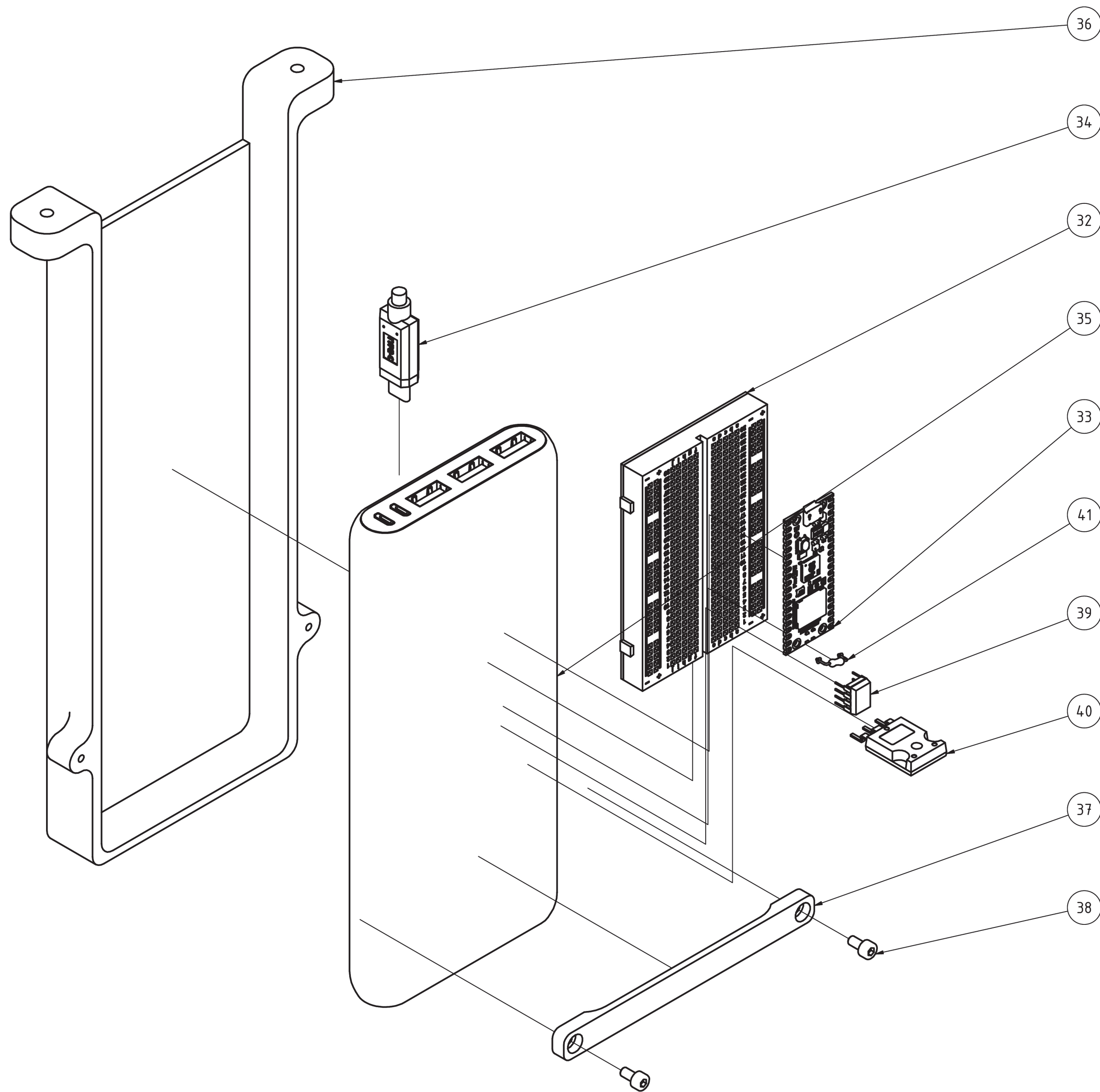
Quantity	Part name	Item	Reference	Material
1	Opener Socket	26	Drawing 16	PVC
1	Opener Distance	27	Drawing 17	PVC
1	Opener Handle	28	Drawing 18	PVC

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto DATE 30/05/2025	PROYECT TITLE LOOPBIN		
	DRAWING TITLE OPENER ASSEMBLY		
	SIZE A3		REF 13
	SCALE 1:1		



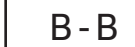
Quantity	Part name	Item	Reference	Material
1	Mixing Part	29		
2	Bearing	30		
1	DIN 125-A 10,5	31		
1	DIN EN ISO 1234 - 2x16	24		-

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto DATE 30/05/2025	PROYECT TITLE LOOPBIN		
	DRAWING TITLE MIXER ASSEMBLY		
	SIZE A3		REF 7
	SCALE 1:1		



Quantity	Part name	Item	Reference	Material
1	HalfBreadboard	32		
1	Pi Pico 2W CAD Reference	33		
1	Type-C Ext CBL-MALE +conn	34		
1	C20194_26800mA_Powe -Bank	35		
1	Power Bank Holder	36	Drawing 7	PVC
1	Power Bank Closer	37	Drawing 8	PVC
2	AS 1420 - 1973 - M3x6	38		Stahl 8.8
1	MAX3485	39		
2	Mosfet	40		
2	Resistor	41		

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto DATE 30/05/2025	PROYECT TITLE LOOPBIN	
	DRAWING TITLE ELECTRONIS ASSEMBLY	REF 14
	SIZE A2	
	SCALE 2:1	

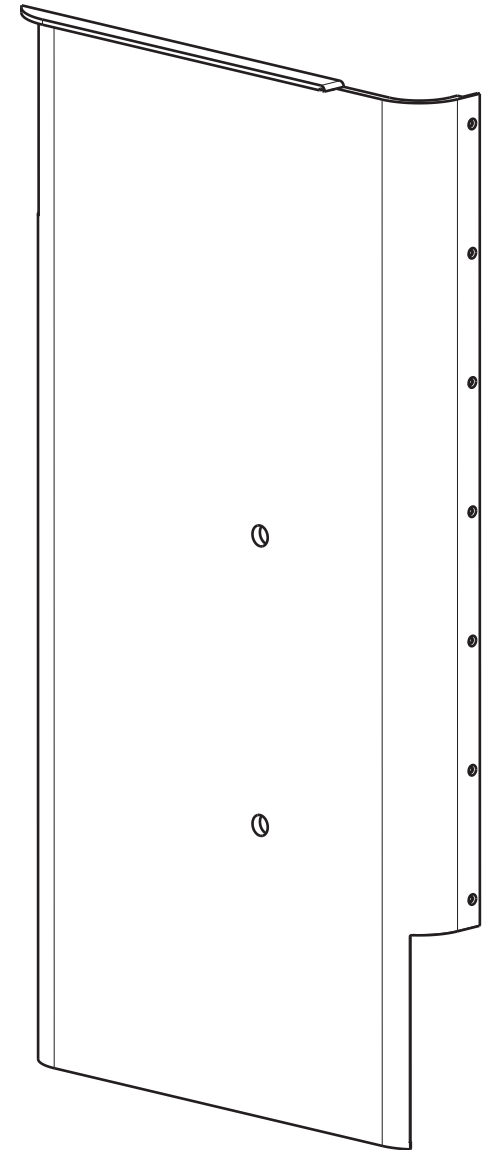
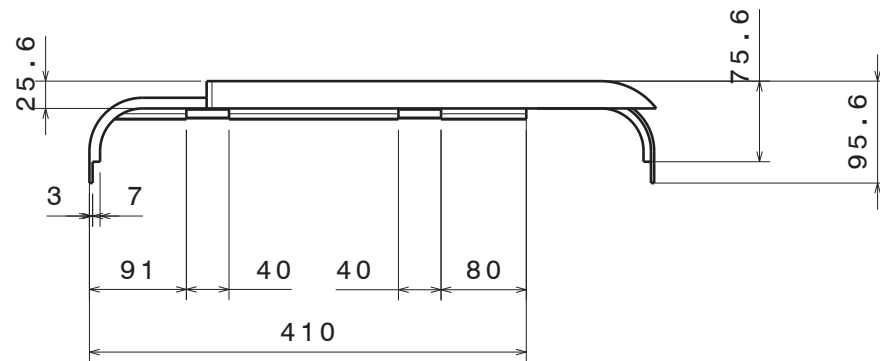


LOOPBIN

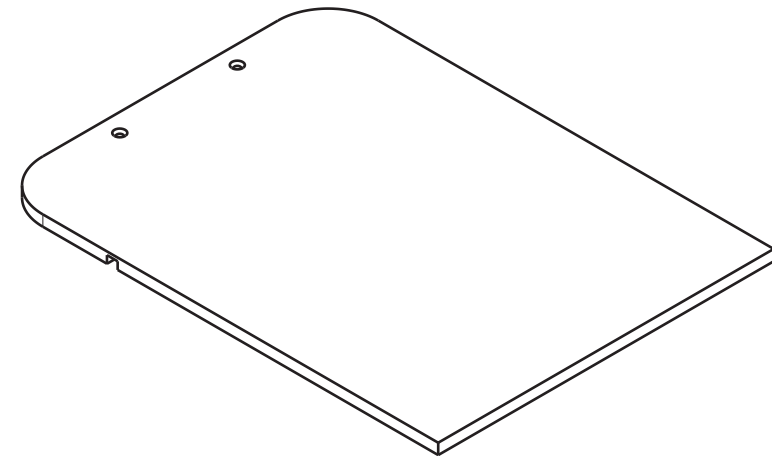
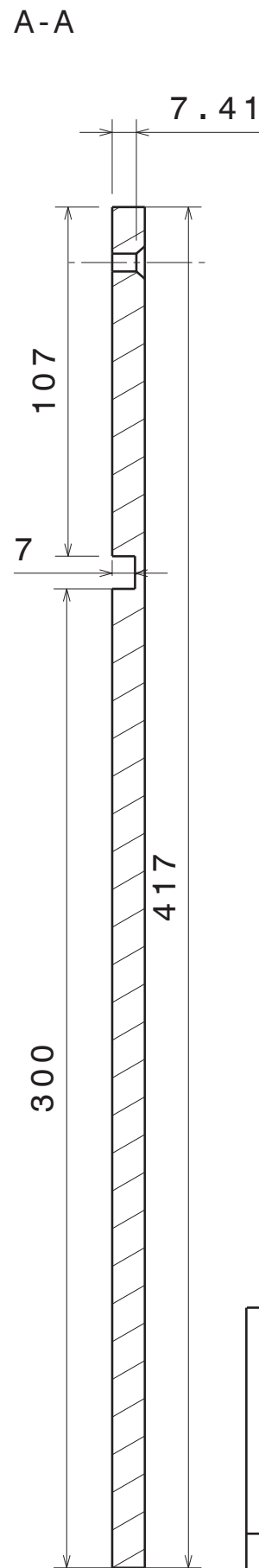
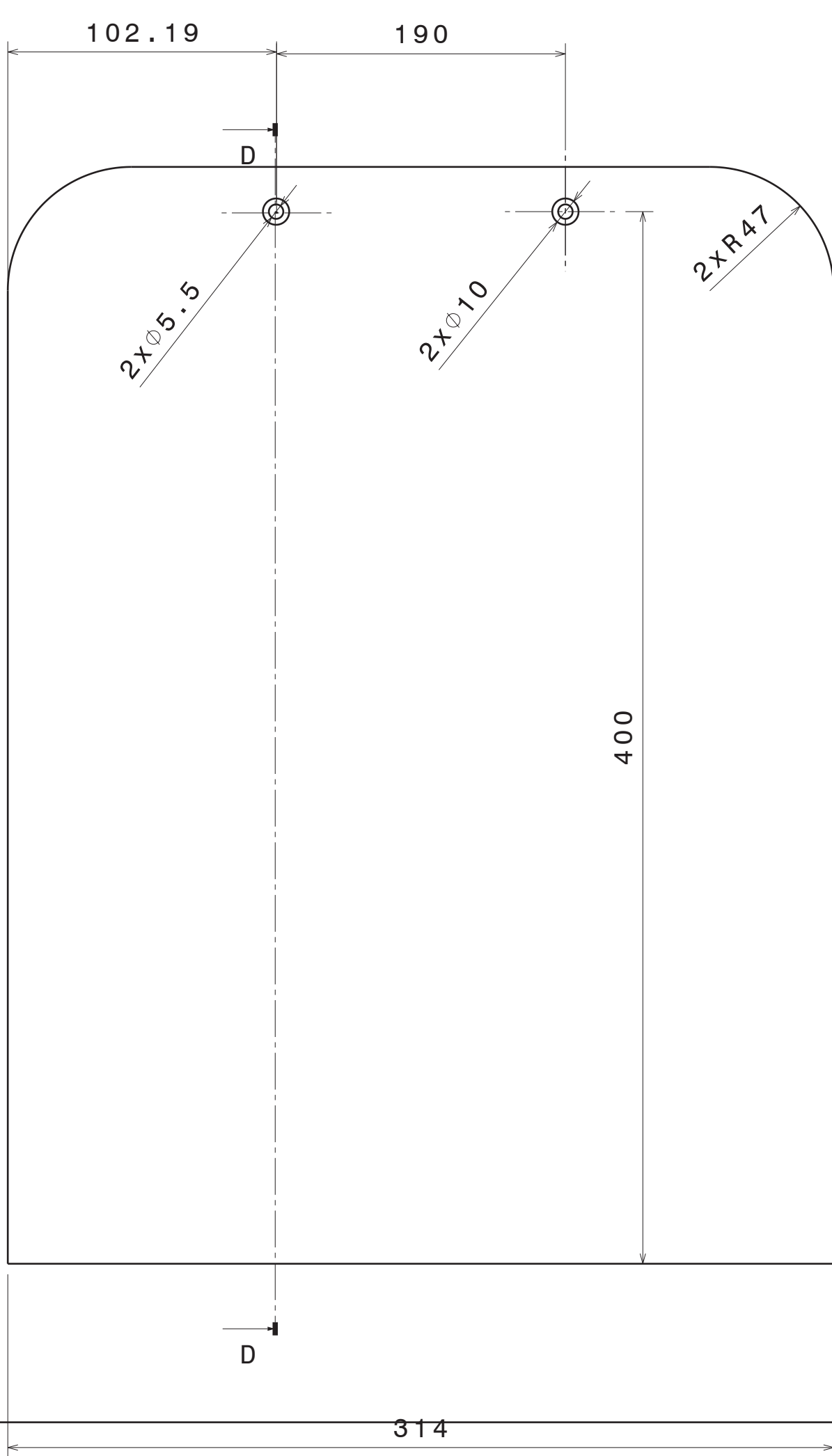
PART NAME	Cover Fix
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SIZE A2	DRAWING NUMBER Drawing 1	ITEM 1
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SCALE	1:5	MATERIAL	PVC
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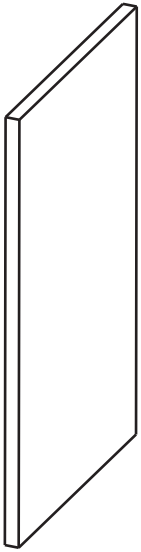
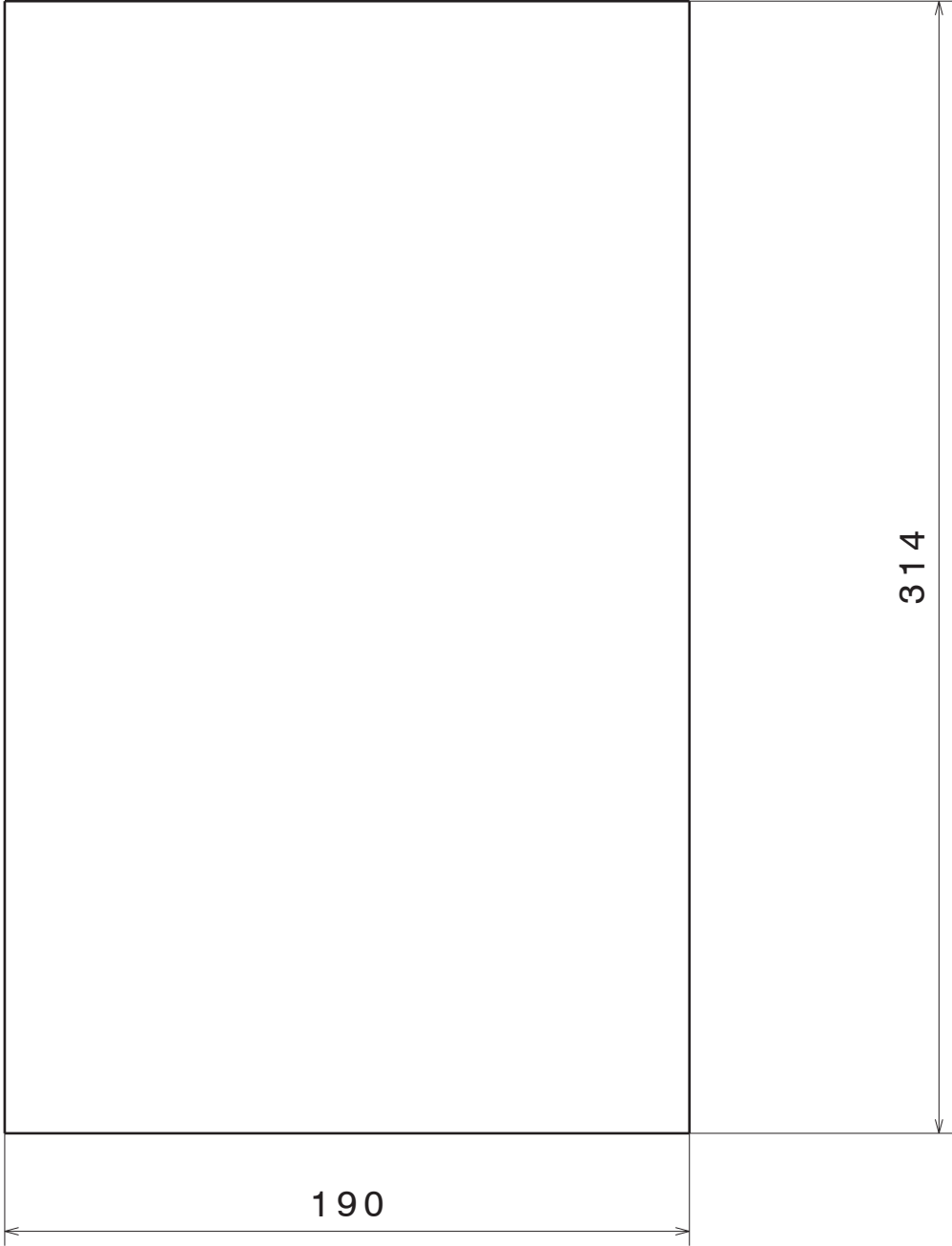


DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE LOOPBIN		
	PART NAME Cover removeable		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	SIZE A2	DRAWING NUMBER Drawing 2	ITEM 2
	SCALE 1:5	MATERIAL PVC	
DATE 30/05/2025			

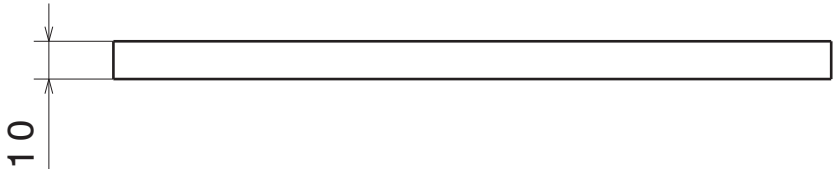


Scale: 1:5

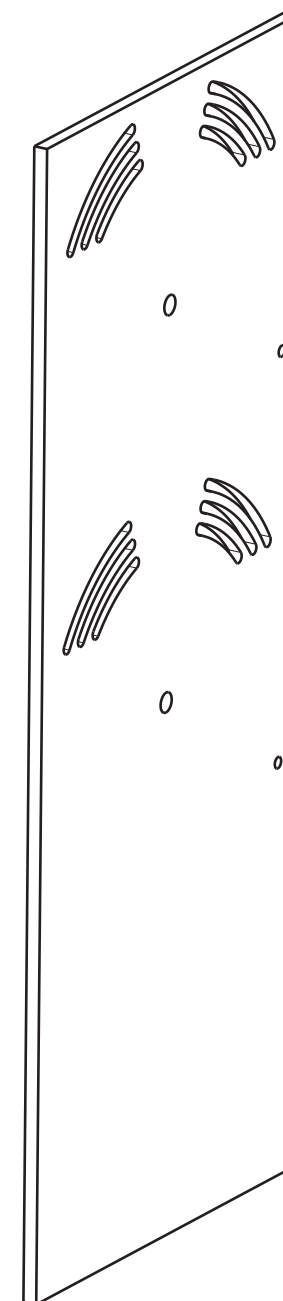
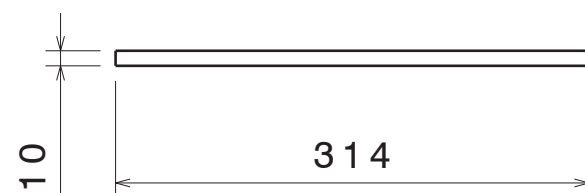
DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE		
	LOOPBIN		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	DRAWING TITLE		
	Cover Plate H		
DATE 30/05/2025	SIZE A3	DRAWING NUMBER Drawing 3	ITEM 3
	SCALE 1:2 unless noted	MATERIAL PVC	



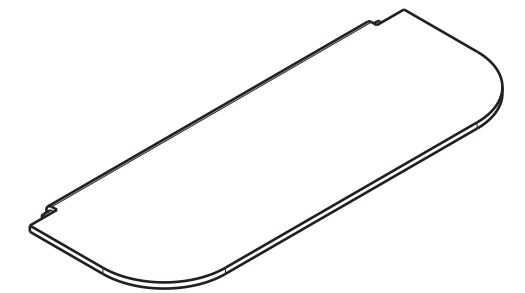
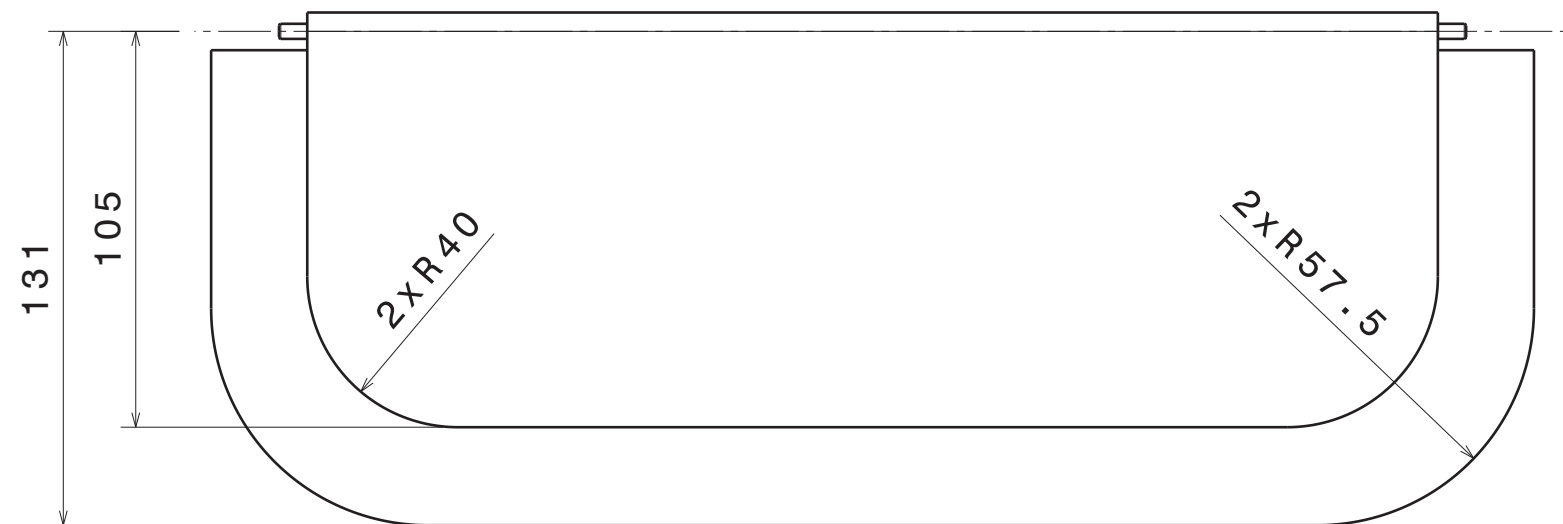
Scale: 1:5



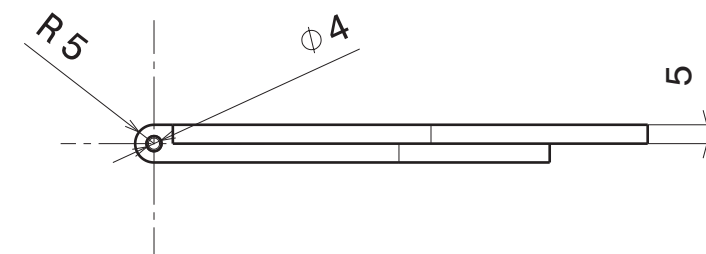
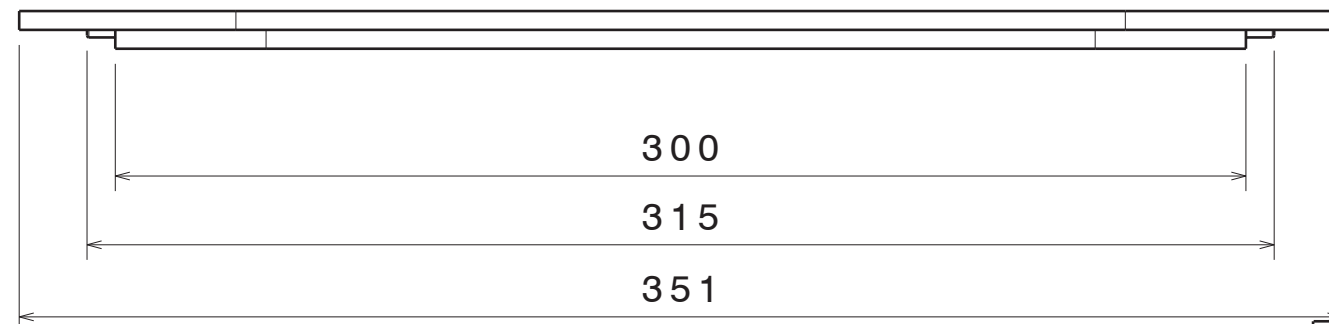
DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE		
	LOOPBIN		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	DRAWING TITLE		
	Cover Plate V		
DATE 30/05/2025	SIZE A3	DRAWING NUMBER Drawing 4	ITEM 4
	SCALE 1:2 unless noted	MATERIAL PVC	



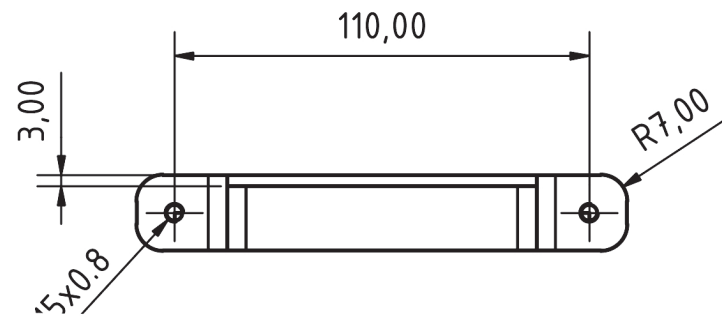
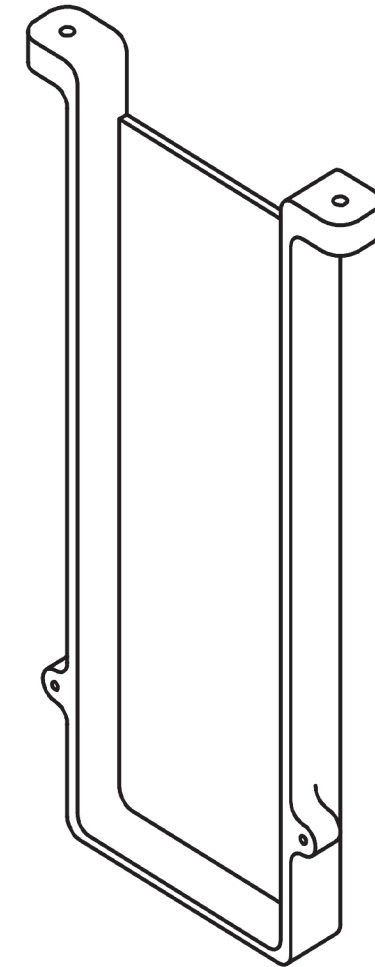
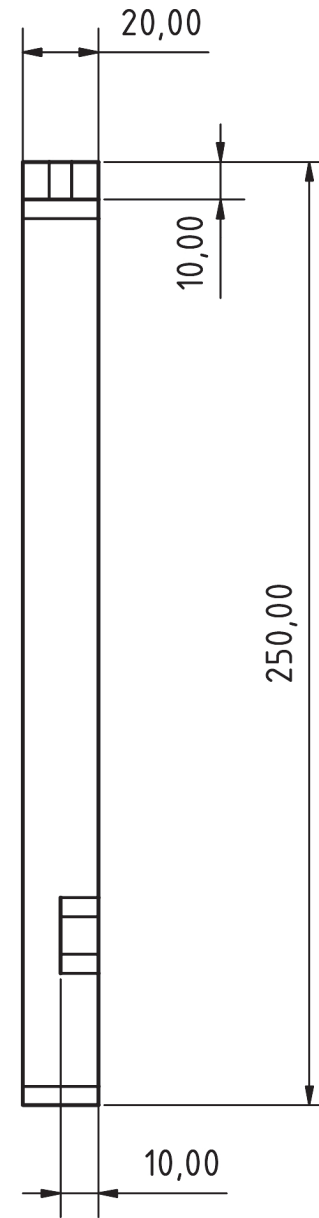
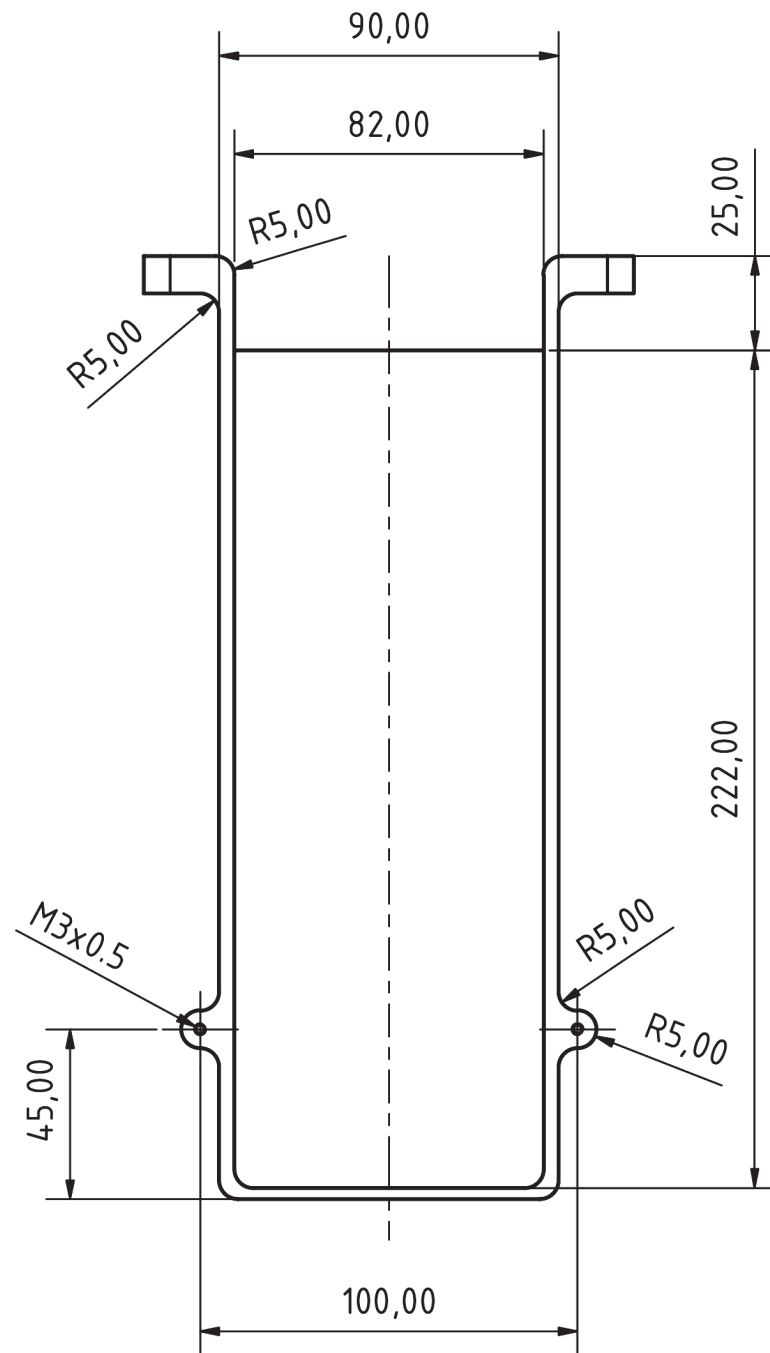
DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE LOOPBIN		
	DRAWING TITLE Cover Plate Back		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	SIZE A3	DRAWING NUMBER Drawing 5	ITEM 17
	SCALE 1:5	MATERIAL PVC	
DATE 30/05/2025			



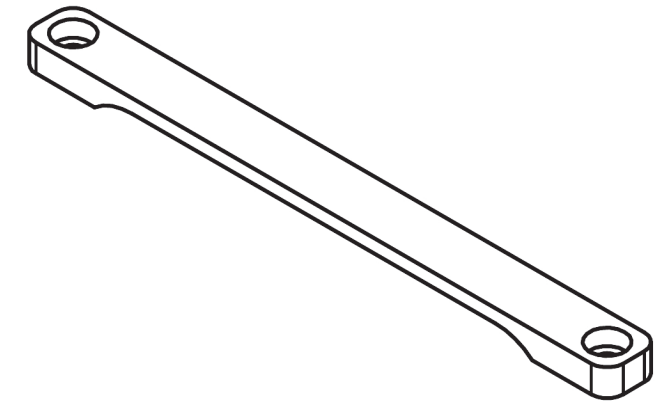
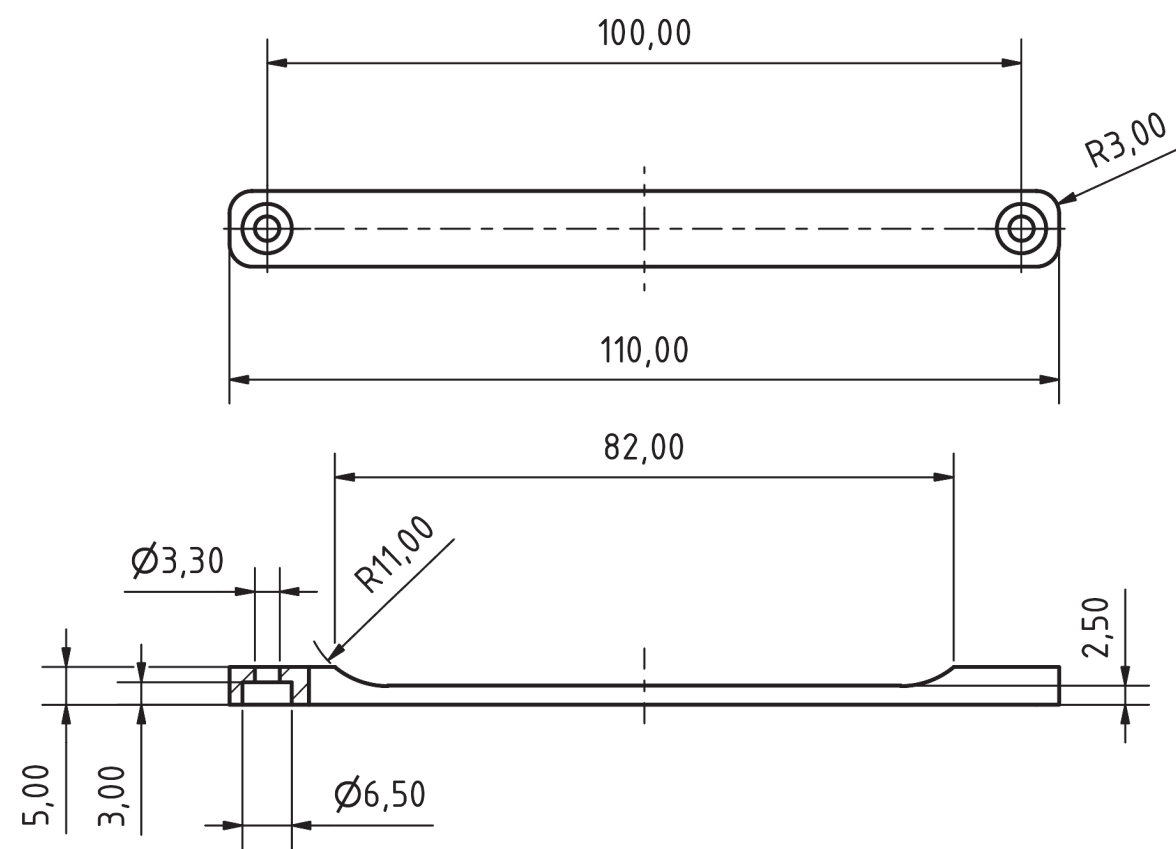
Scale 1:5



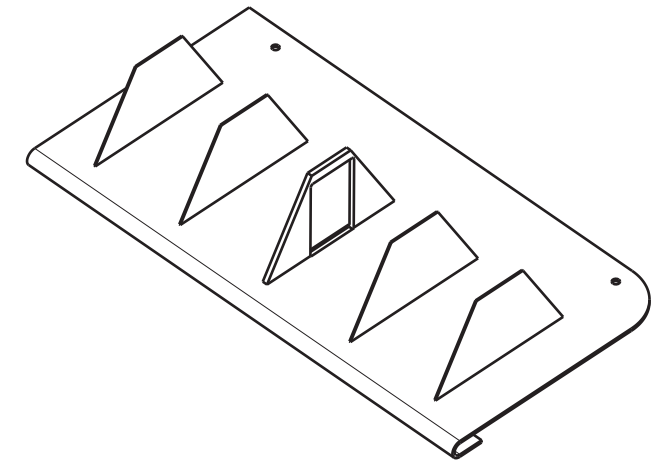
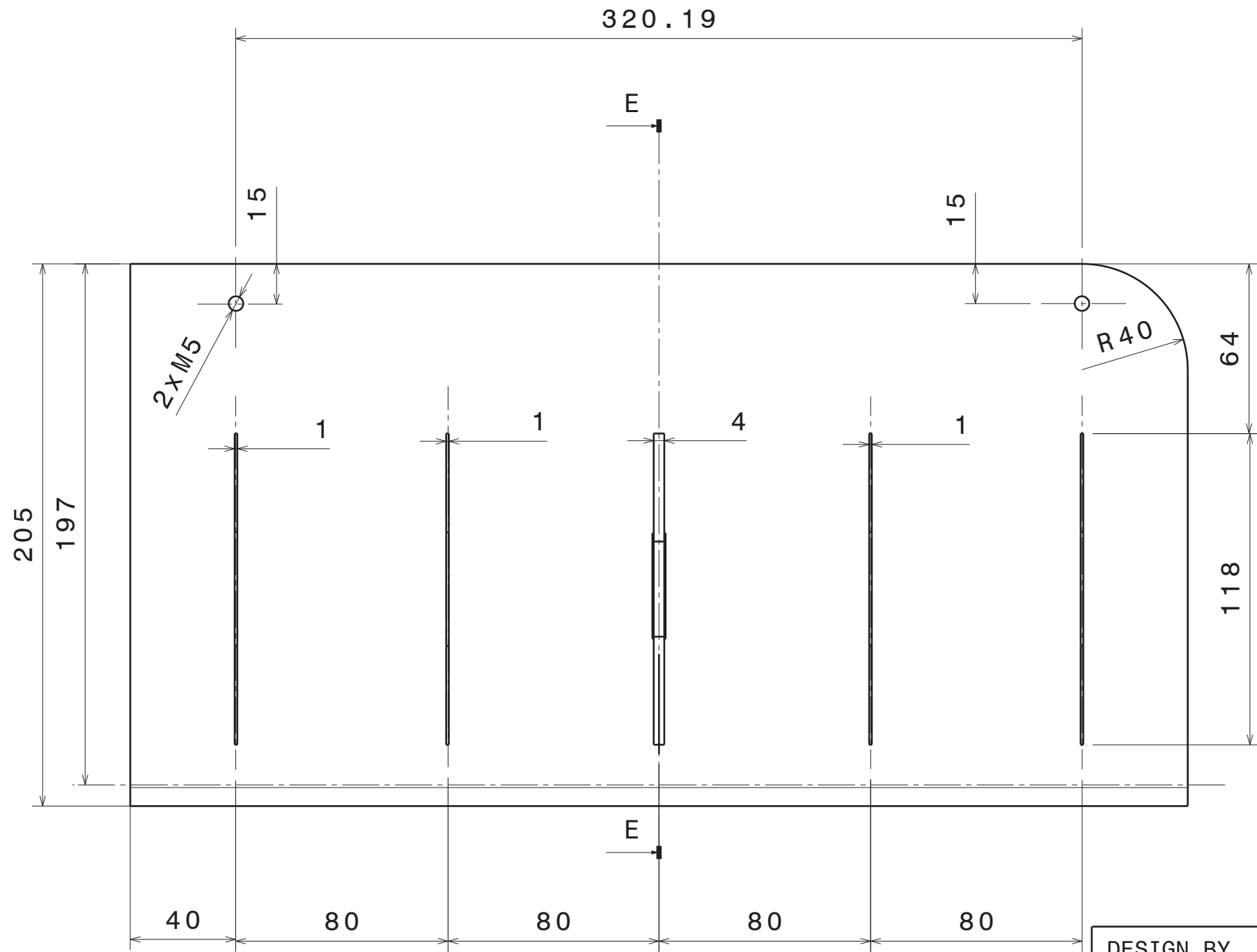
DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe		PROYECT TITLE LOOPBIN		
		DRAWING TITLE Hingred Lid		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto		SIZE A3	DRAWING NUMBER Drawing 6	ITEM 5
		DATE 30/05/2025	SCALE 1:2 unless noted	MATERIAL PVC



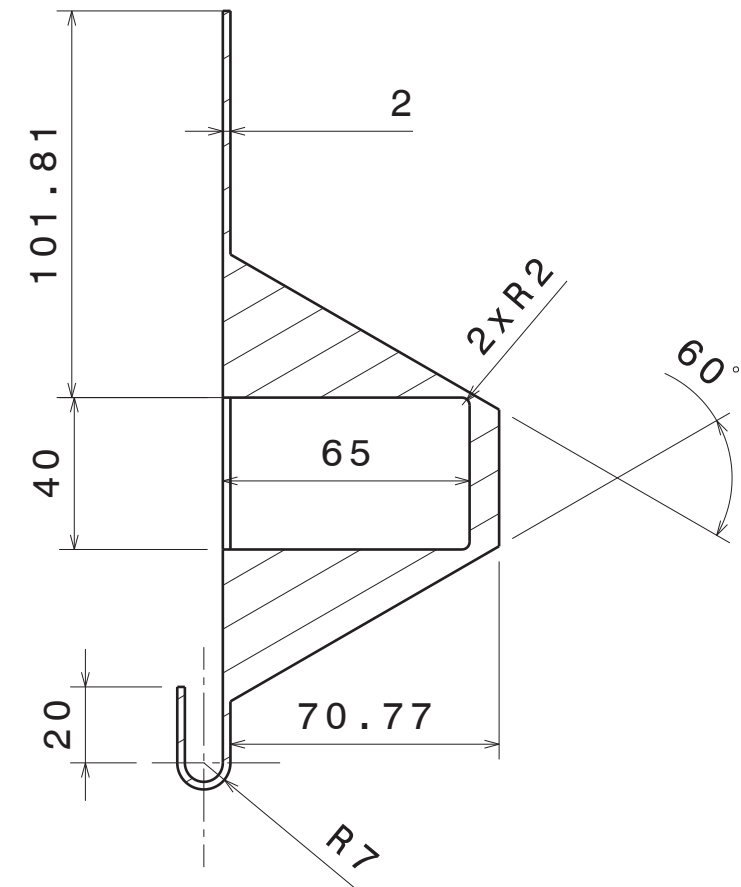
DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe		PROYECT TITLE LOOPBIN		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto		DRAWING TITLE Powe Bank Holder		
DATE 30/05/2025		SIZE A3	DRAWING NUMBER Drawing 8	ITEM 37
		SCALE 2:1	MATERIAL PVC	



DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE LOOPBIN		
	DRAWING TITLE Powe Bank Closer		
	SIZE A3	DRAWING NUMBER Drawing 7	ITEM 36
DATE 30/05/2025	SCALE 2:1	MATERIAL PVC	



Scale: 1:5



DESIGN BY
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DATE
30/05/2025

PROYECT TITLE

LOOPBIN

DRAWING TITLE

Knife

SIZE
A3

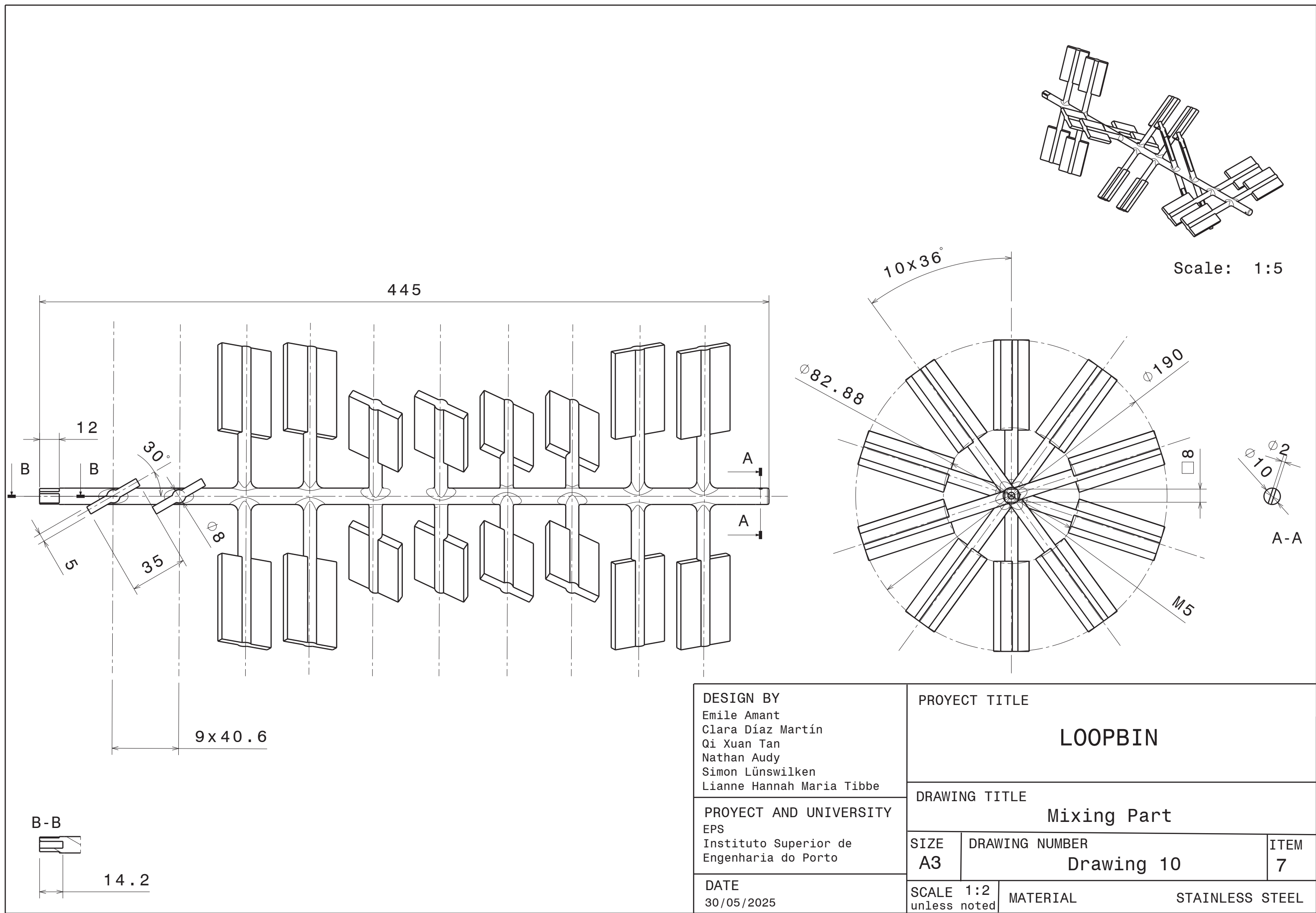
DRAWING NUMBER
Drawing 9

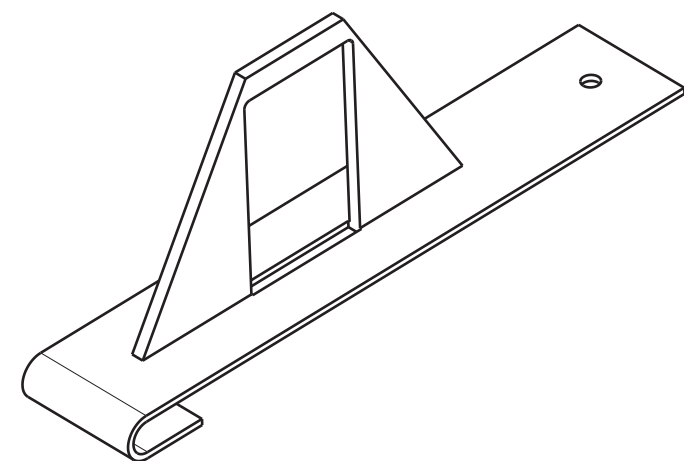
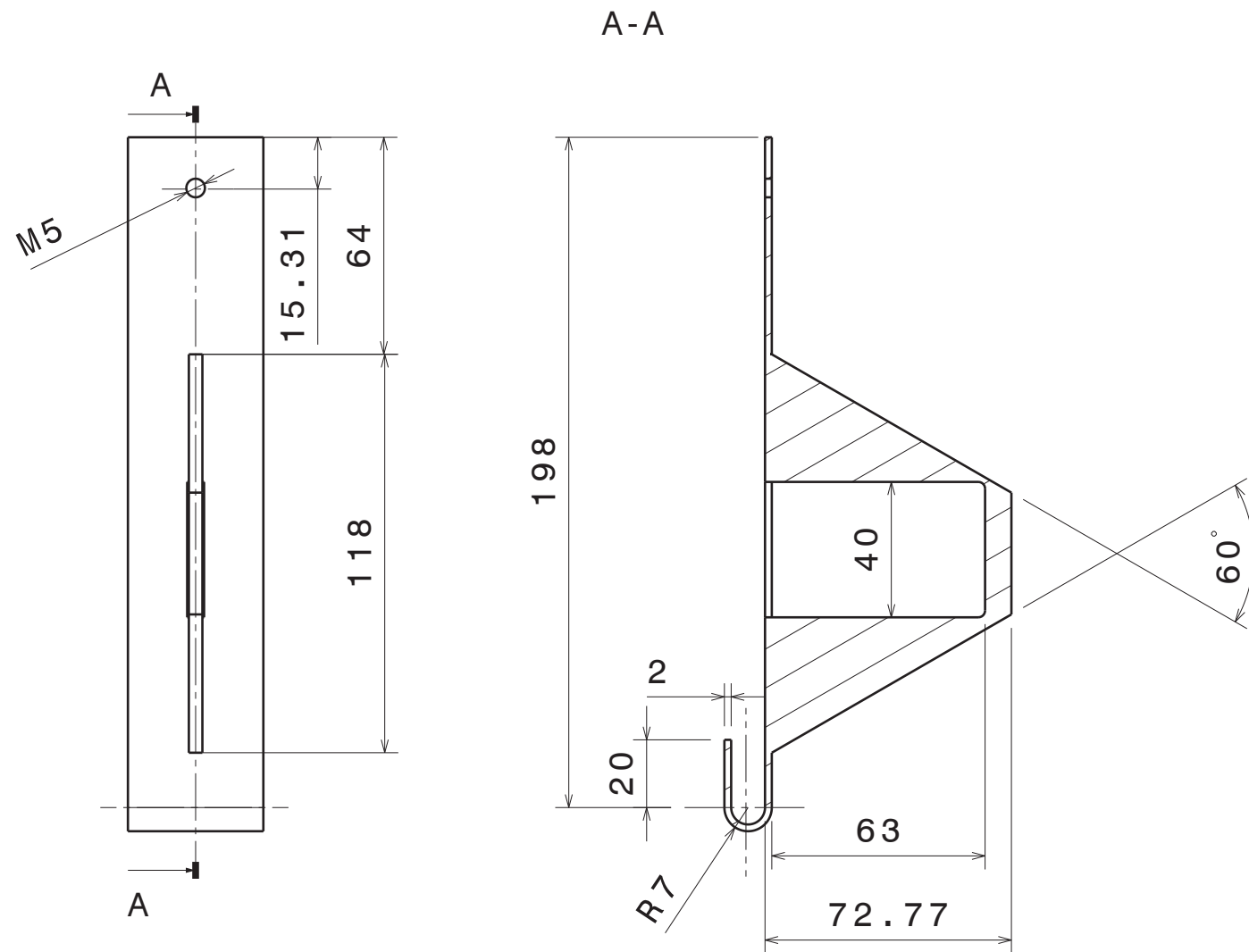
ITEM
6

SCALE 1:2
unless noted

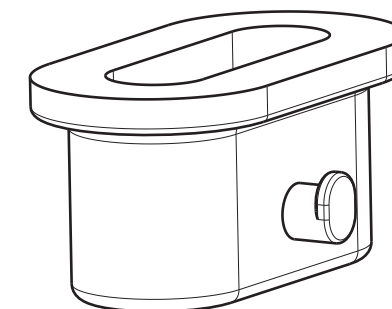
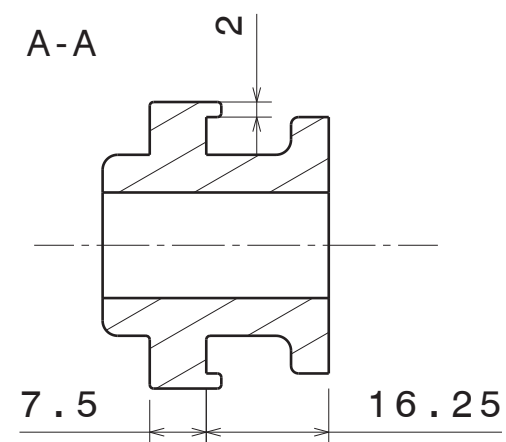
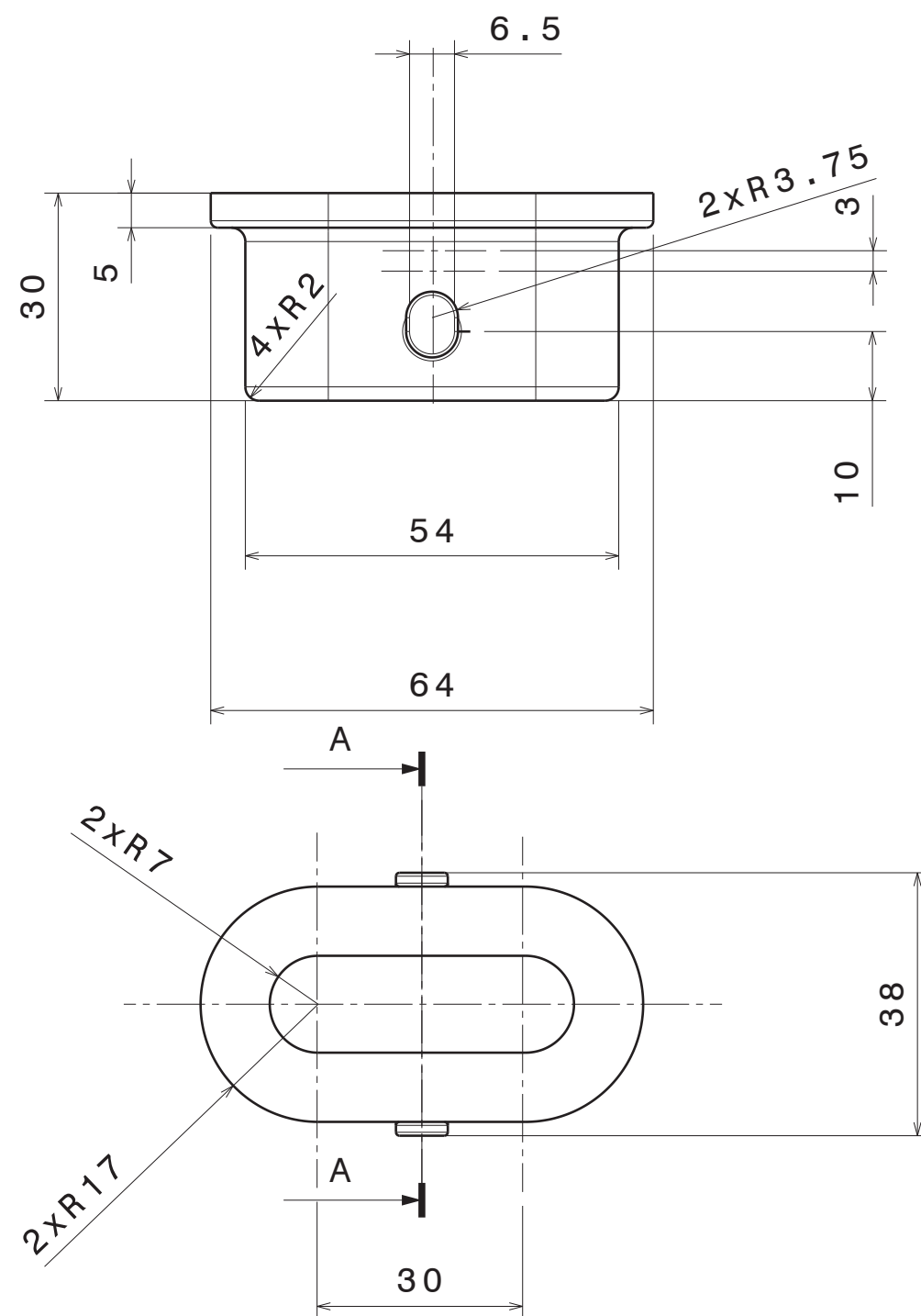
MATERIAL

STAINLESS STEEL



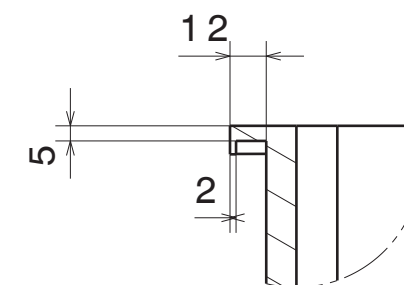
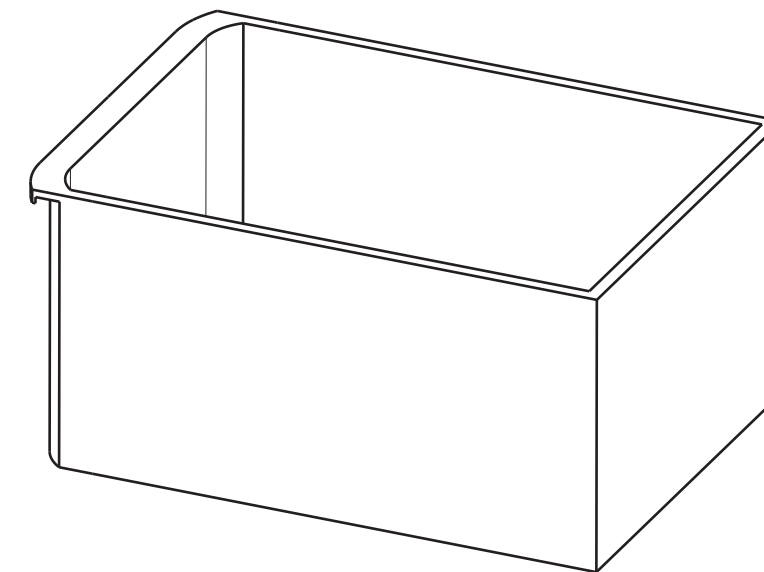
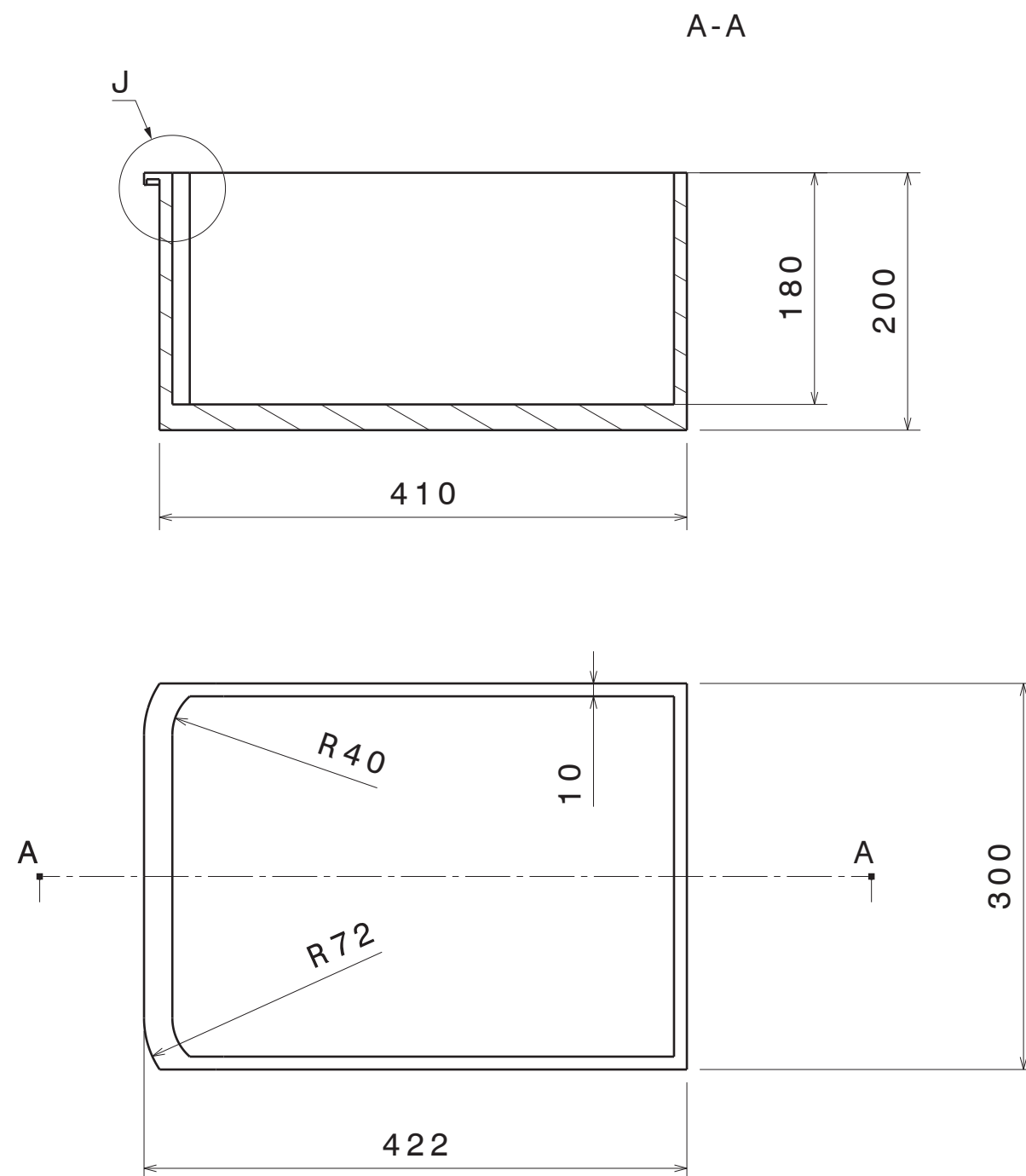


DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE LOOPBIN		
	DRAWING TITLE Soil Sensor Cover		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	SIZE A3	DRAWING NUMBER Drawing 11	ITEM 8
	DATE 30/05/2025	SCALE 1:2	MATERIAL STAINLESS STEEL



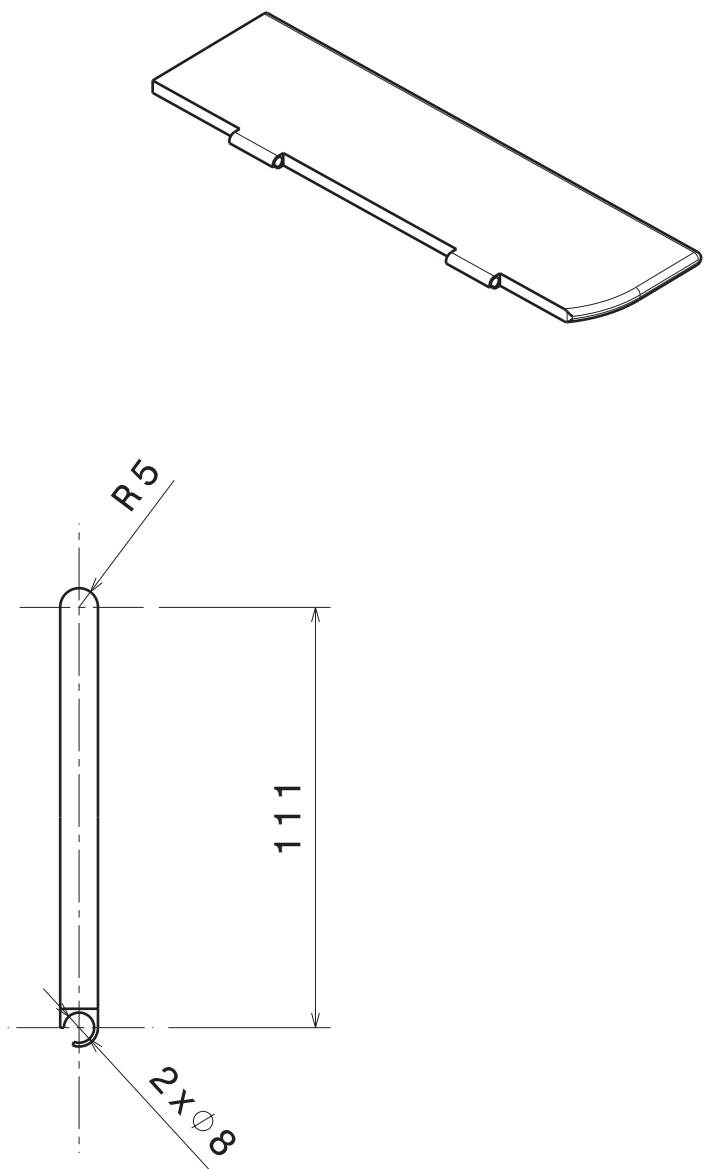
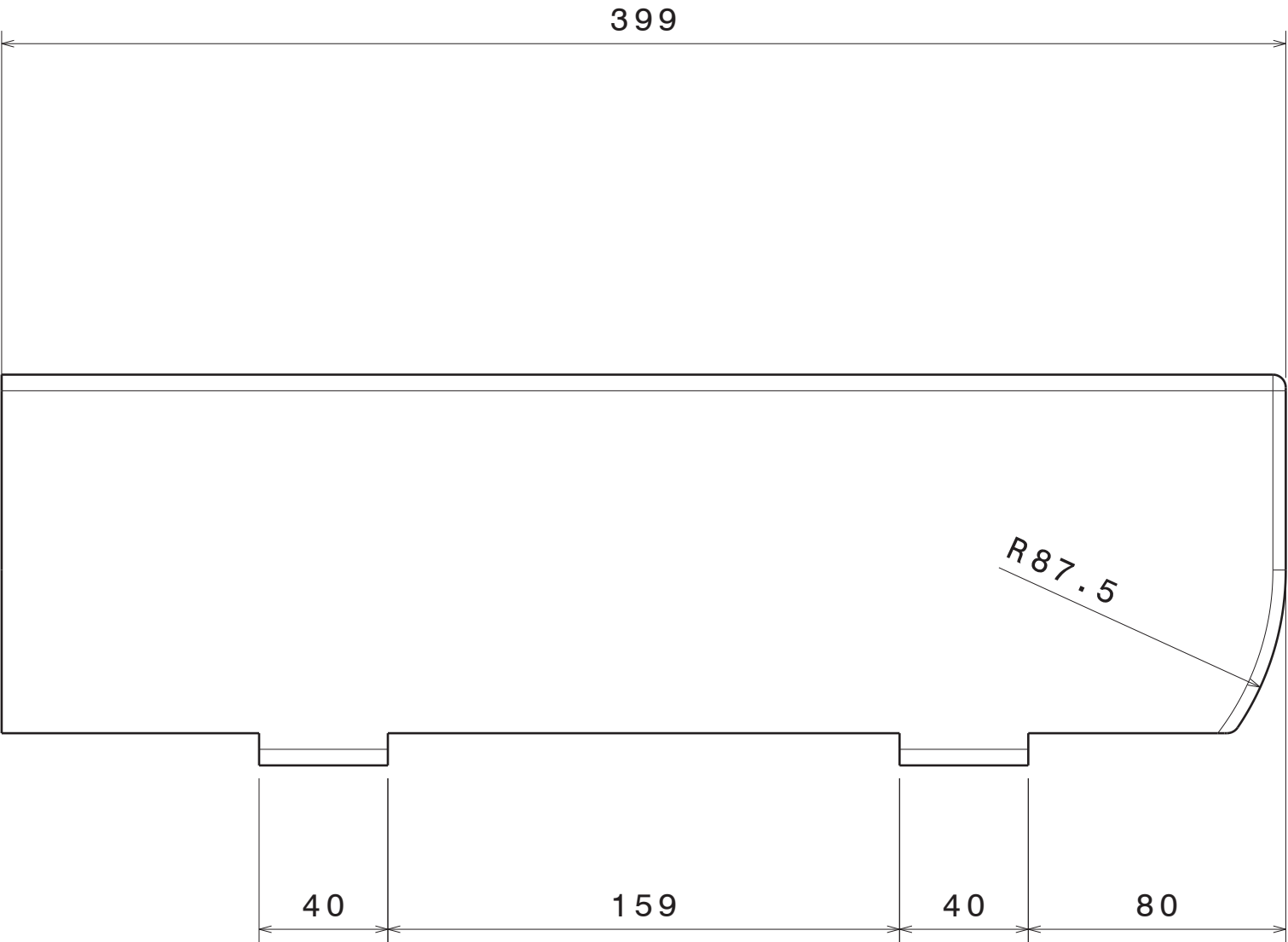
Fillets R1 mm unless otherwise specified

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe		PROYECT TITLE LOOPBIN		
		DRAWING TITLE Soil Sensor Holder		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto		SIZE A3	DRAWING NUMBER Drawing 12	ITEM 9
		DATE 30/05/2025	SCALE 1:1	MATERIAL PVC

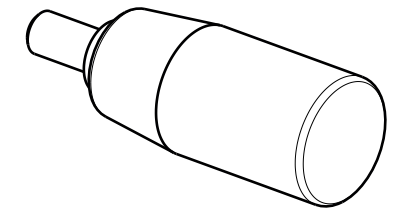
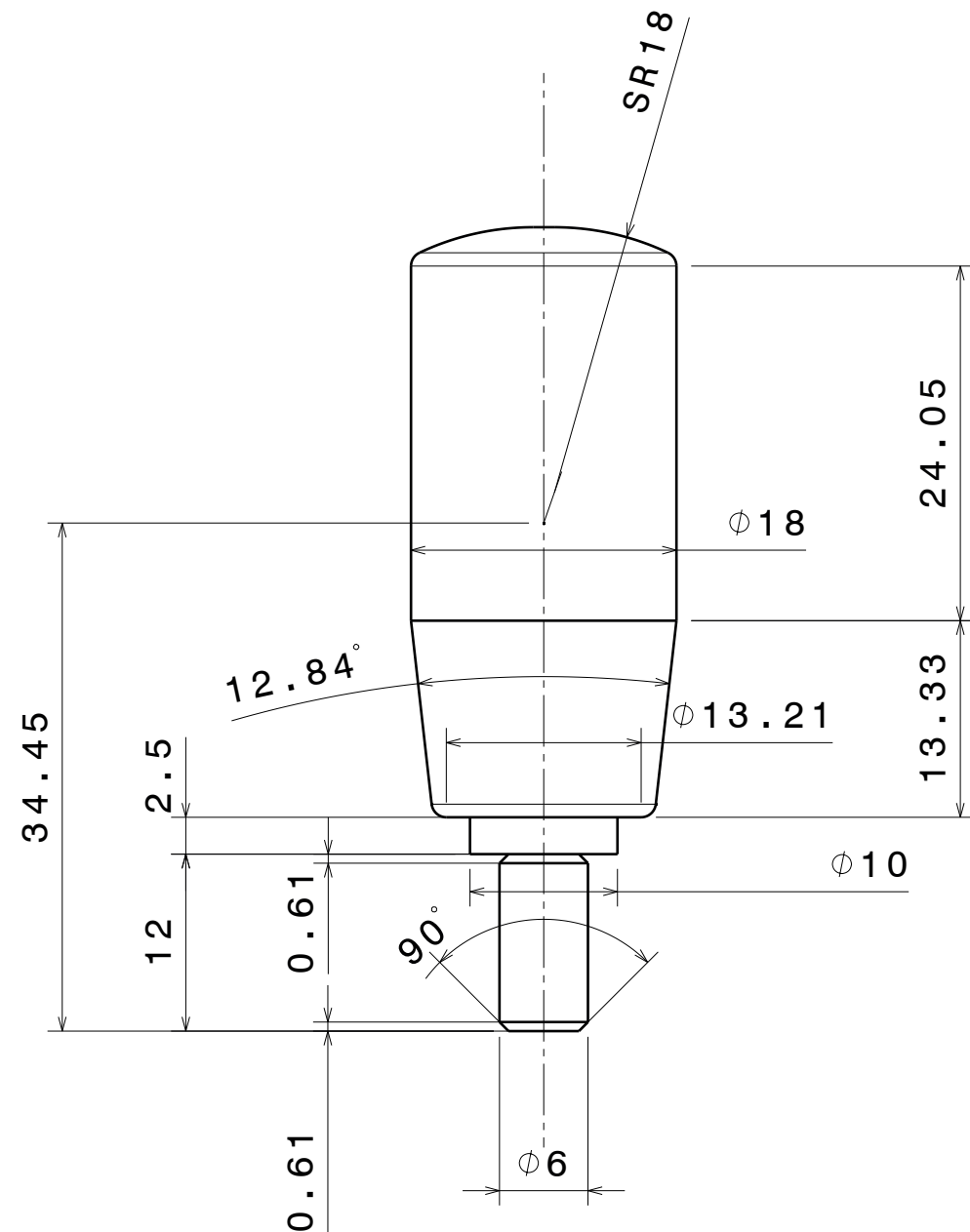


Detail B
Scale: 2:5

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE LOOPBIN		
	DRAWING TITLE Storage Box		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	SIZE A3	DRAWING NUMBER Drawing 13	ITEM 10
	DATE 30/05/2025	SCALE 1:5 unless noted	MATERIAL PVC



DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe		PROYECT TITLE		
		LOOPBIN		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto		DRAWING TITLE		
		Mobile Part		
DATE 30/05/2025		SIZE A3	DRAWING NUMBER Drawing 14	ITEM 11
		SCALE 1:2 unless noted	MATERIAL PVC	



Scale: 1:1

Filleets R1 mm

DESIGN BY
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DATE
30/05/2025

PROYECT TITLE

LOOPBIN

DRAWING TITLE

Handle

SIZE
A3

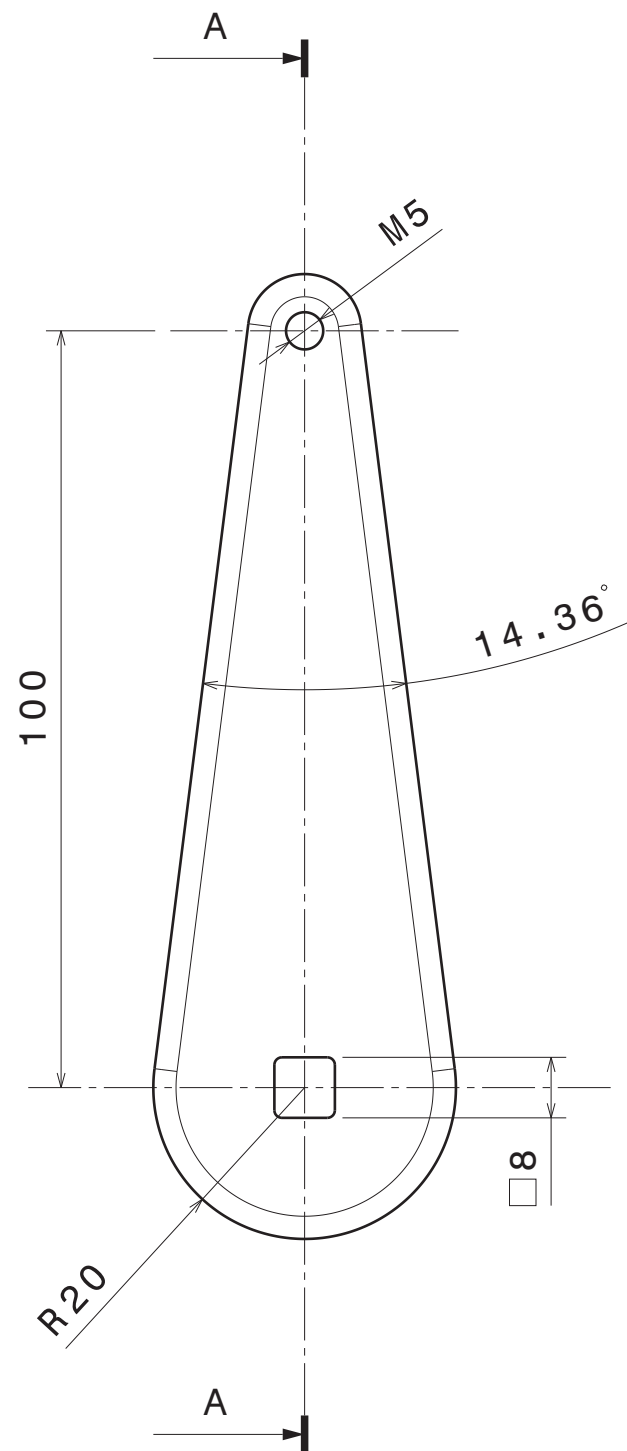
DRAWING NUMBER
Drawing 15

ITEM
21

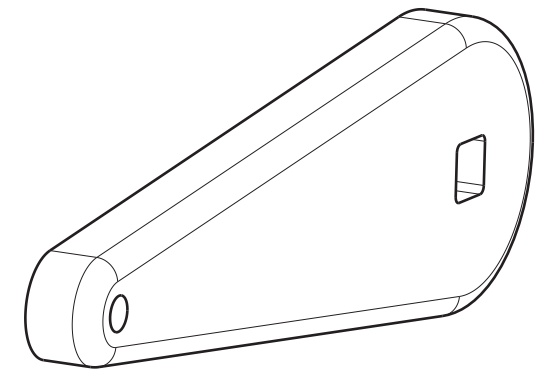
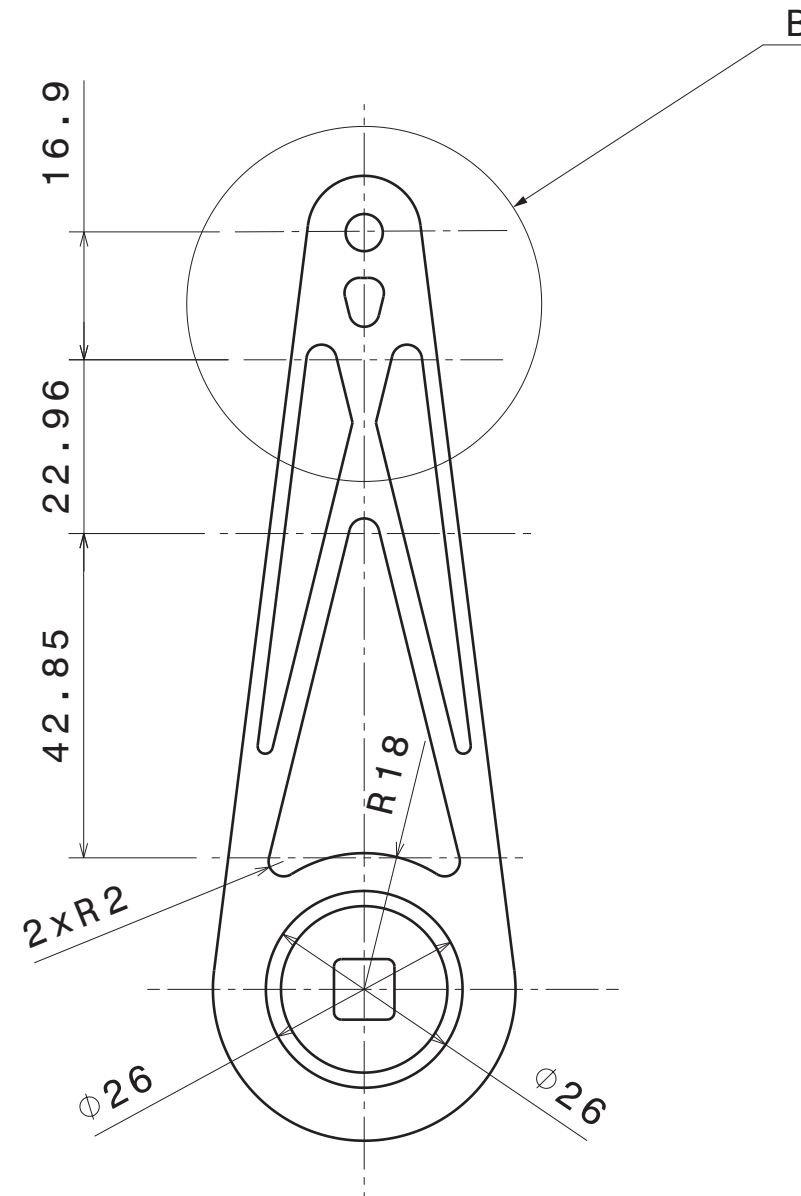
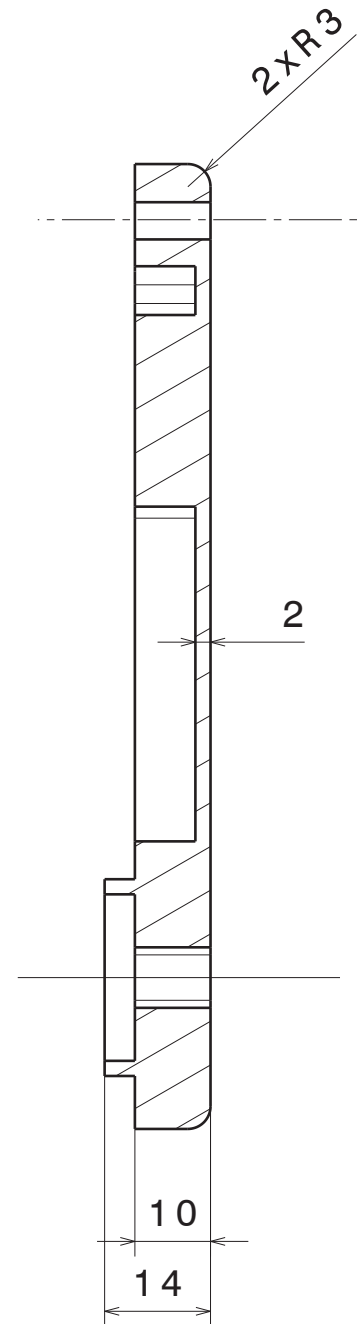
SCALE 2:1
unless noted

MATERIAL

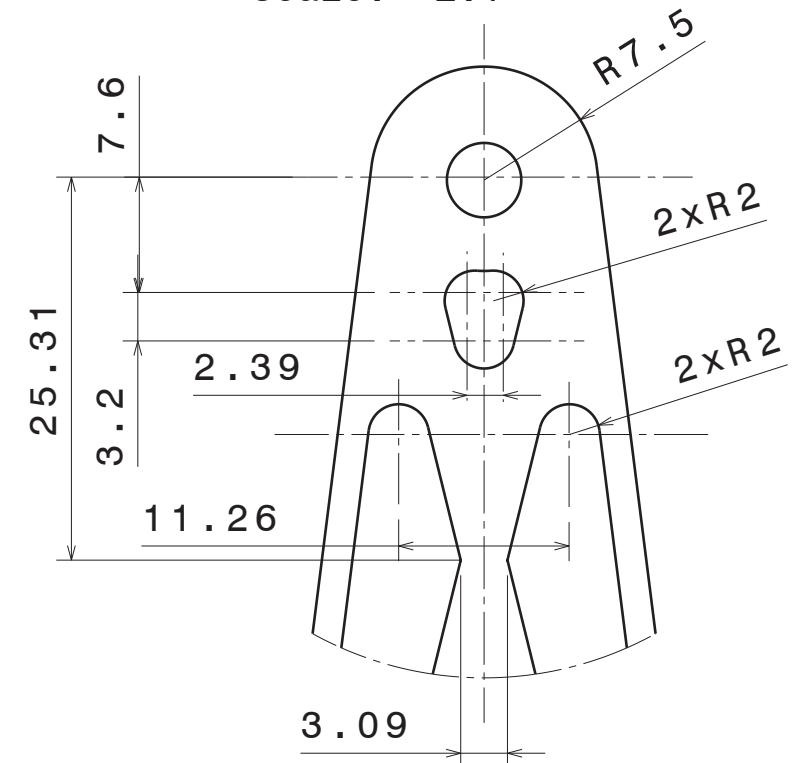
PVC



A-A



Detail B
Scale: 2:1



Fillets R1 mm unless otherwise specified

DESIGN BY
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Lianne Hannah Maria Tibbe

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DATE
30/05/2025

PROYECT TITLE

LOOPBIN

DRAWING TITLE

Handle Support

SIZE
A3

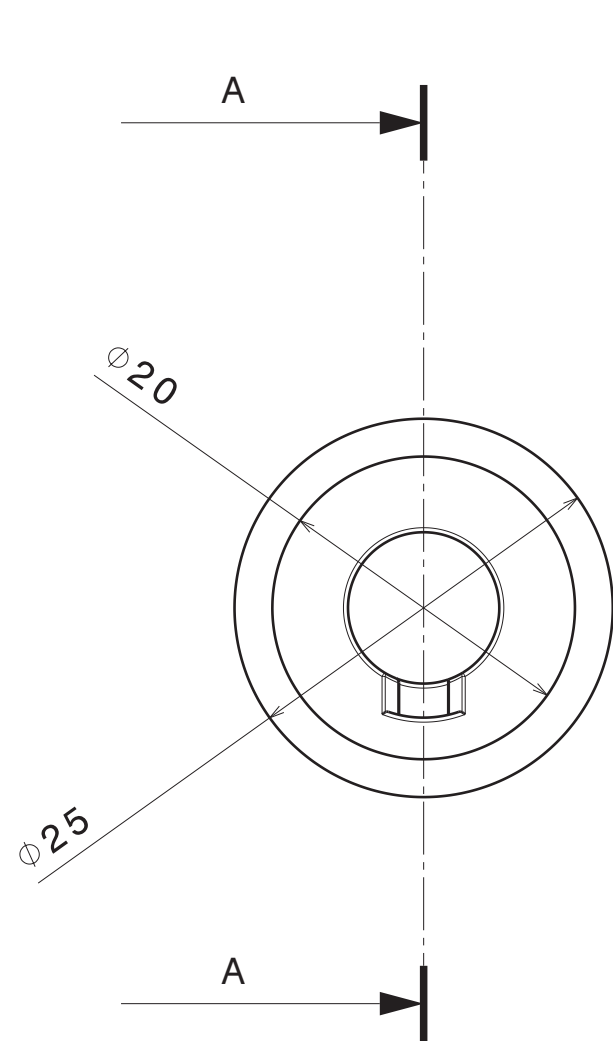
DRAWING NUMBER
Drawing 16

ITEM
22

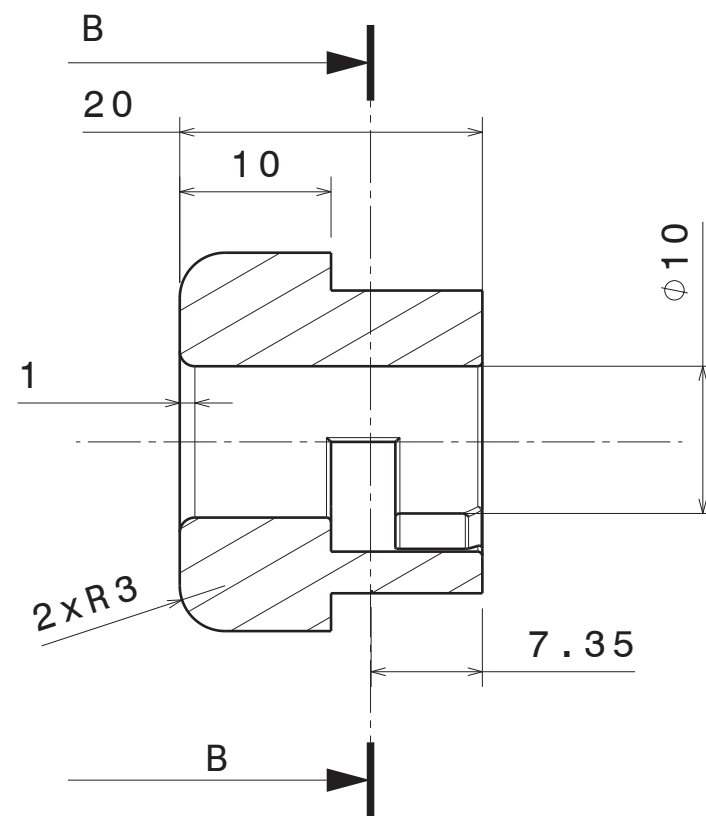
SCALE 1:1
unless noted

MATERIAL

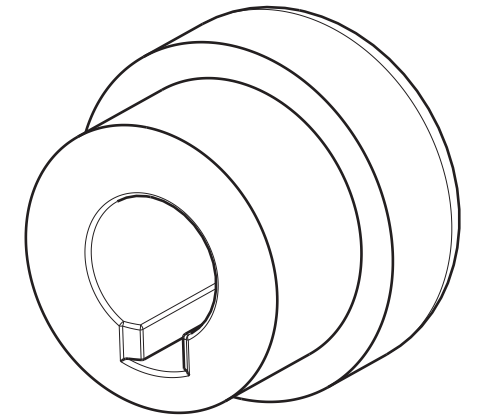
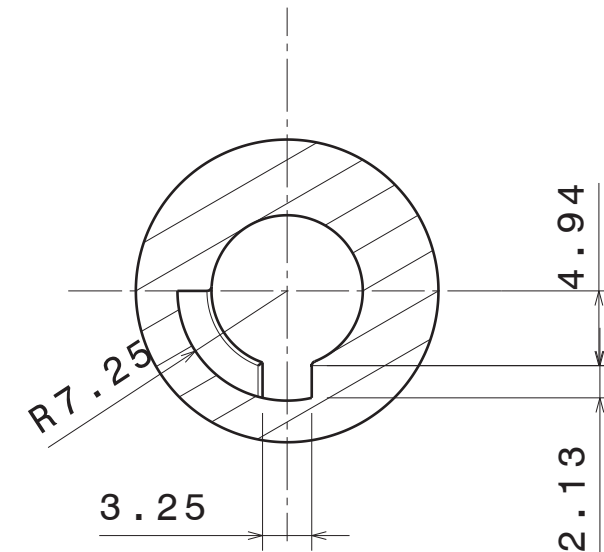
PVC



A-A

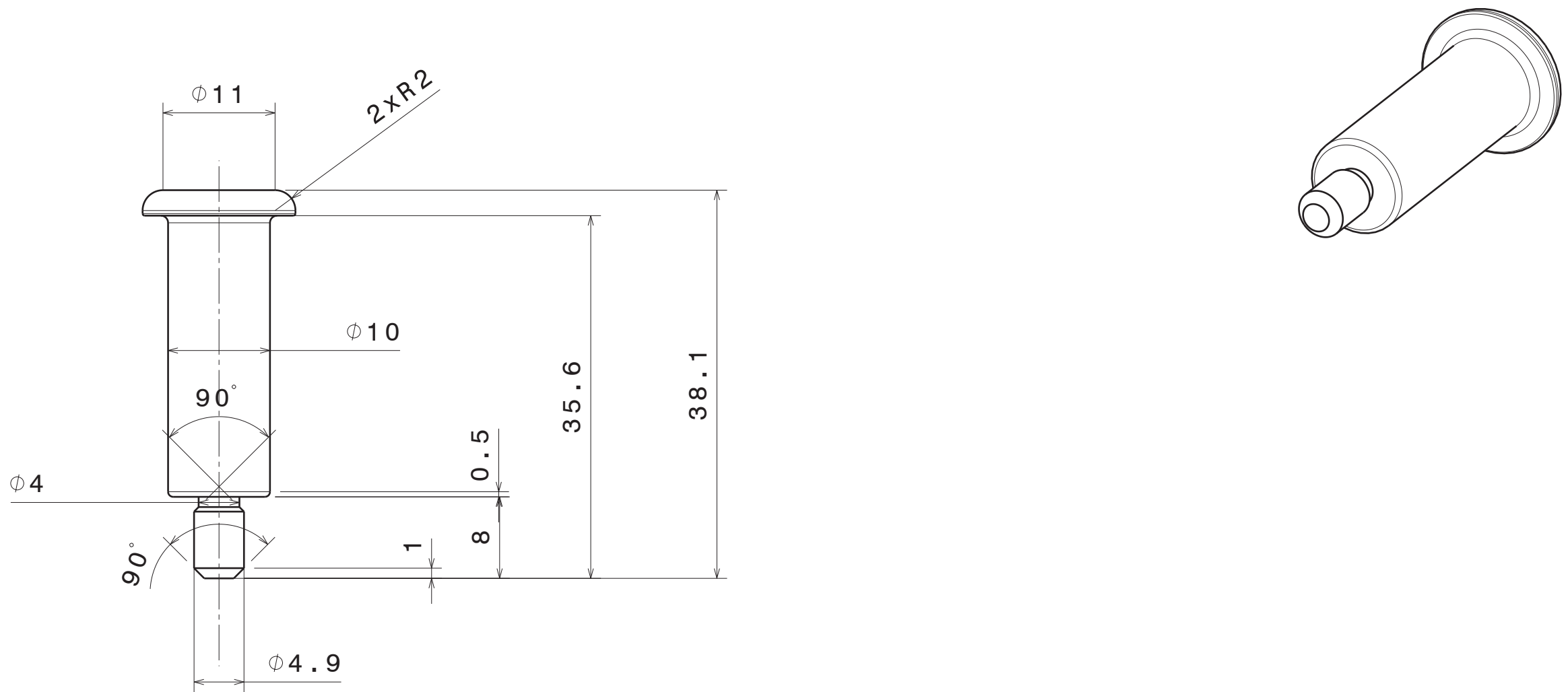


B-B



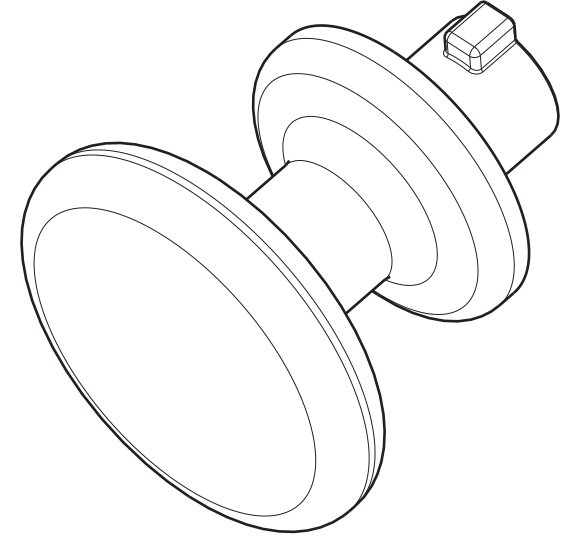
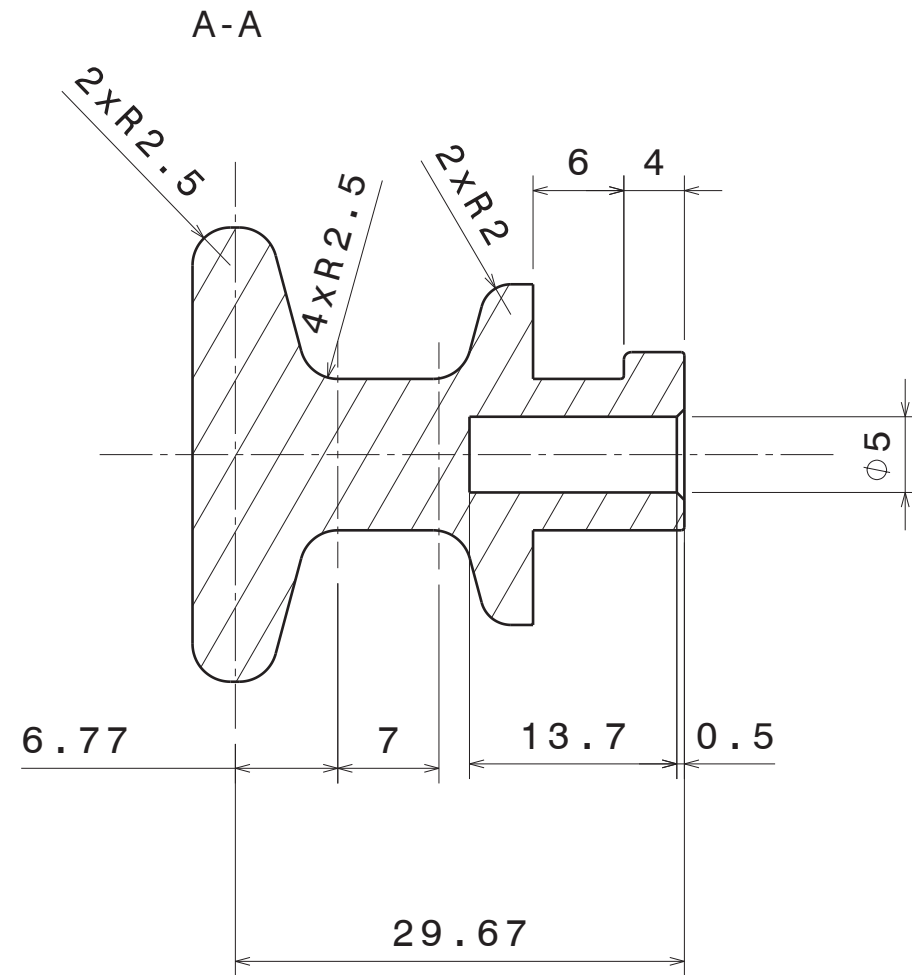
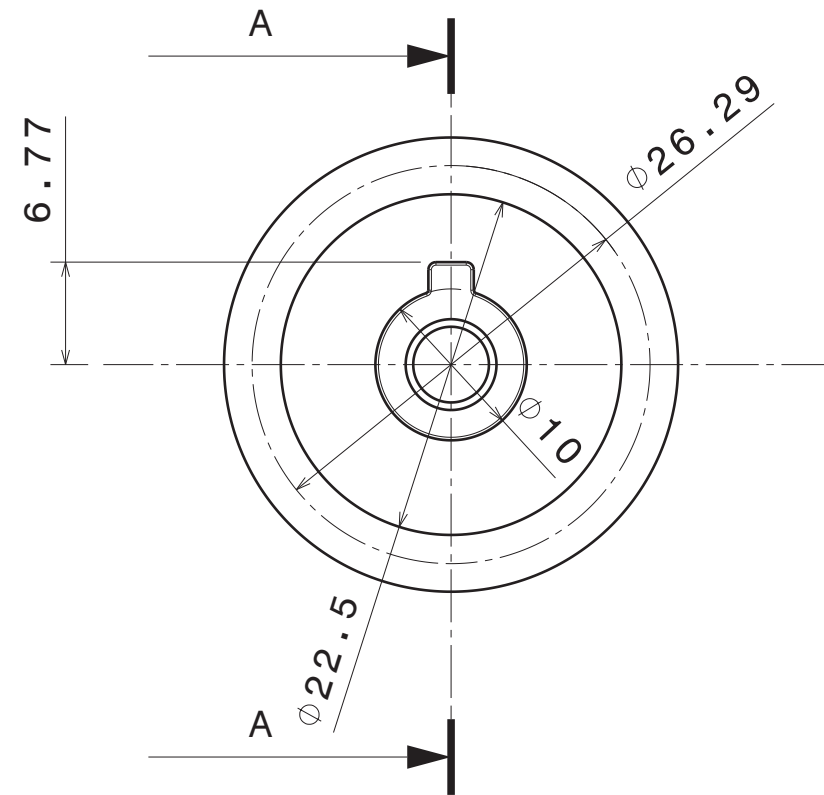
Fillets R1 mm unless otherwise specified

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe	PROYECT TITLE LOOPBIN		
	DRAWING TITLE Opener Socket		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto	SIZE A3	DRAWING NUMBER Drawing 17	ITEM 26
	SCALE 2:1	MATERIAL PVC	
DATE 30/05/2025			



Fillets R1 mm unless otherwise specified

DESIGN BY Emile Amant Clara Díaz Martín Qi Xuan Tan Nathan Audy Simon Lünswilken Lianne Hannah Maria Tibbe		PROYECT TITLE		
		LOOPBIN		
PROYECT AND UNIVERSITY EPS Instituto Superior de Engenharia do Porto		DRAWING TITLE		
		Opener Distance		
DATE 30/05/2025		SIZE A3	DRAWING NUMBER Drawing 18	ITEM 27
		SCALE 2:1	MATERIAL PVC	



DESIGN BY
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Qi Xuan Tan
Nathan Audy
Simon Lünswilken
Lianne Hannah Maria Tibbe

PROYECT AND UNIVERSITY
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Instituto Superior de
Engenharia do Porto

DATE
30/05/2025

PROYECT TITLE

LOOPBIN

DRAWING TITLE

Opener Handle

SIZE
A3

DRAWING NUMBER

Drawing 18

ITEM
28

SCALE 2:1

MATERIAL

PVC