

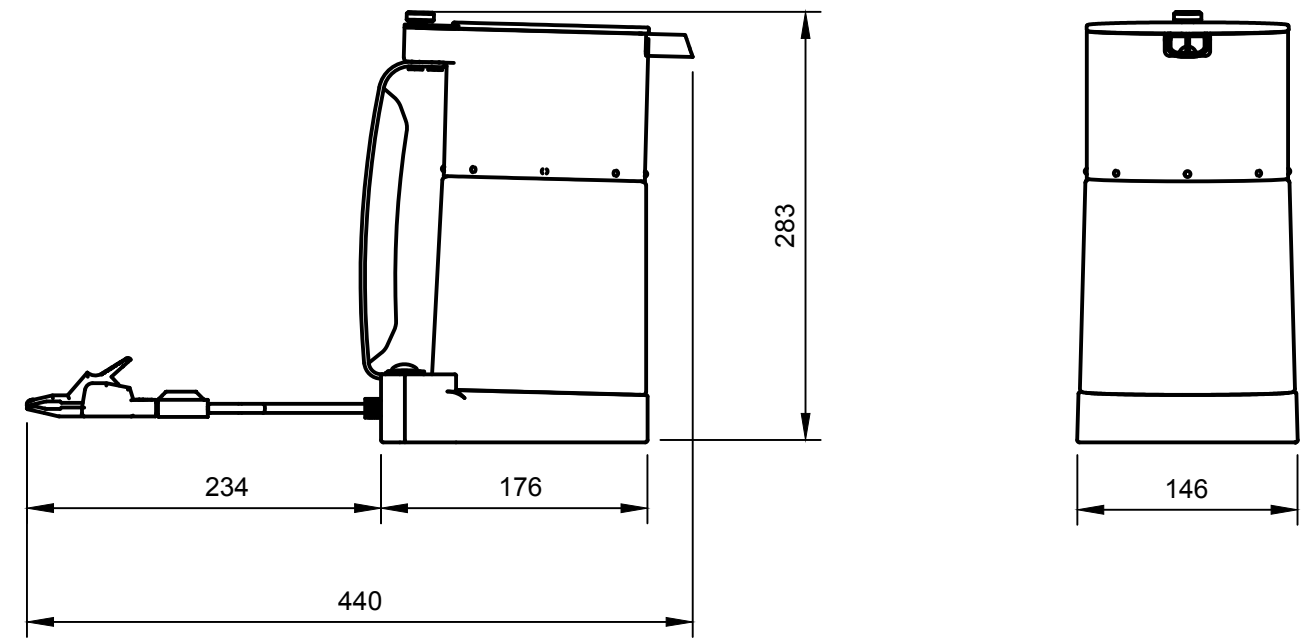
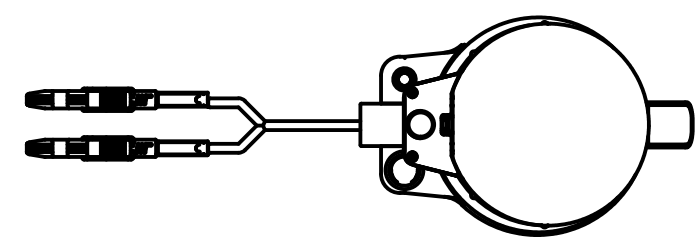
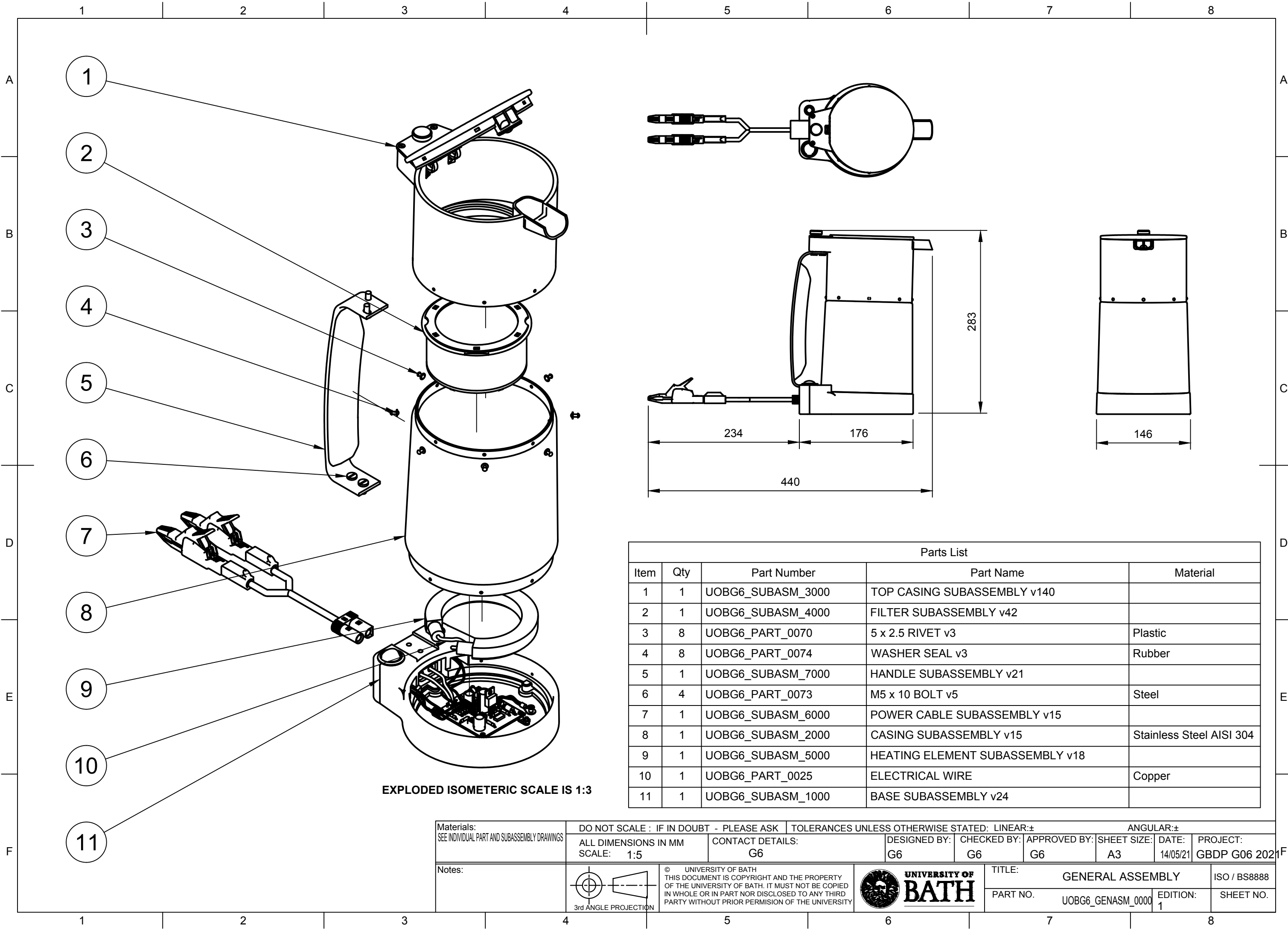
# Drawing Pack Group Submission

GBDP Group 6

14/05/2021

General Assembly and Subassemblies are detailed in this pack, along with all manufactured parts.





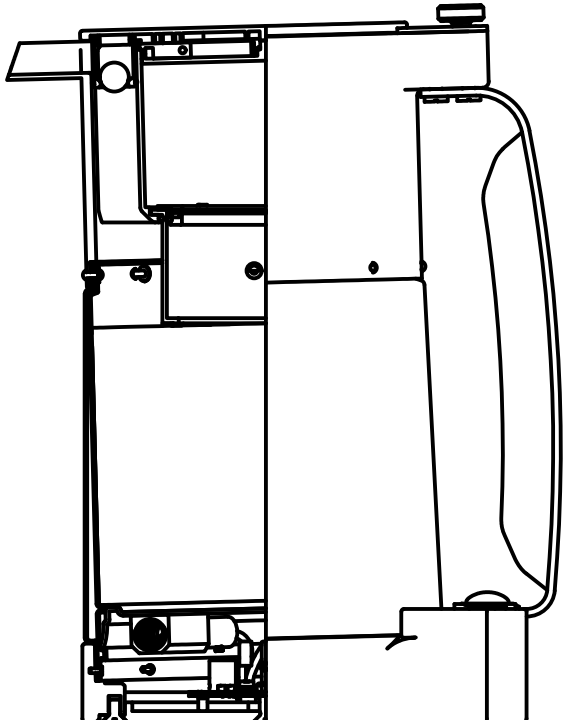
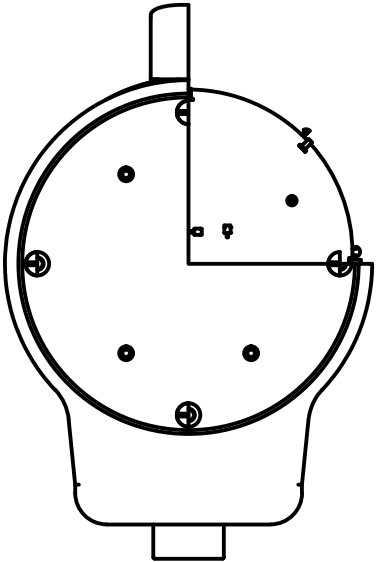
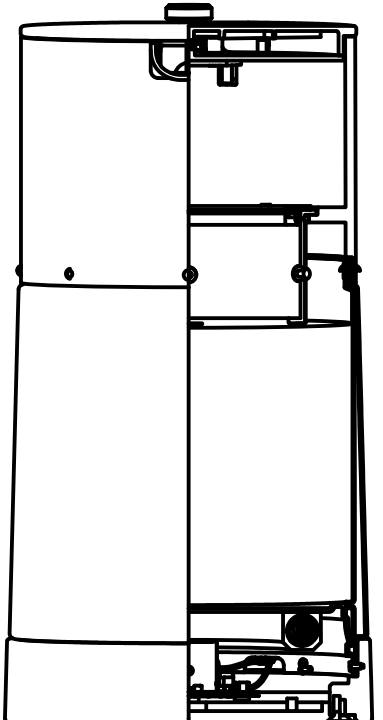
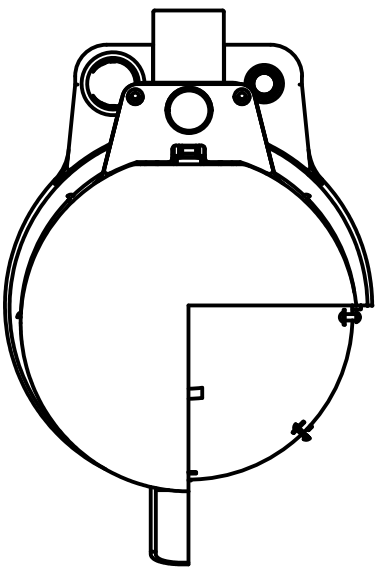
EXPLODED ISOMETERIC SCALE IS 1:3

Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_SUBASM_3000	TOP CASING SUBASSEMBLY v140	
2	1	UOBG6_SUBASM_4000	FILTER SUBASSEMBLY v42	
3	8	UOBG6_PART_0070	5 x 2.5 RIVET v3	Plastic
4	8	UOBG6_PART_0074	WASHER SEAL v3	Rubber
5	1	UOBG6_SUBASM_7000	HANDLE SUBASSEMBLY v21	
6	4	UOBG6_PART_0073	M5 x 10 BOLT v5	Steel
7	1	UOBG6_SUBASM_6000	POWER CABLE SUBASSEMBLY v15	
8	1	UOBG6_SUBASM_2000	CASING SUBASSEMBLY v15	Stainless Steel AISI 304
9	1	UOBG6_SUBASM_5000	HEATING ELEMENT SUBASSEMBLY v18	
10	1	UOBG6_PART_0025	ELECTRICAL WIRE	Copper
11	1	UOBG6_SUBASM_1000	BASE SUBASSEMBLY v24	

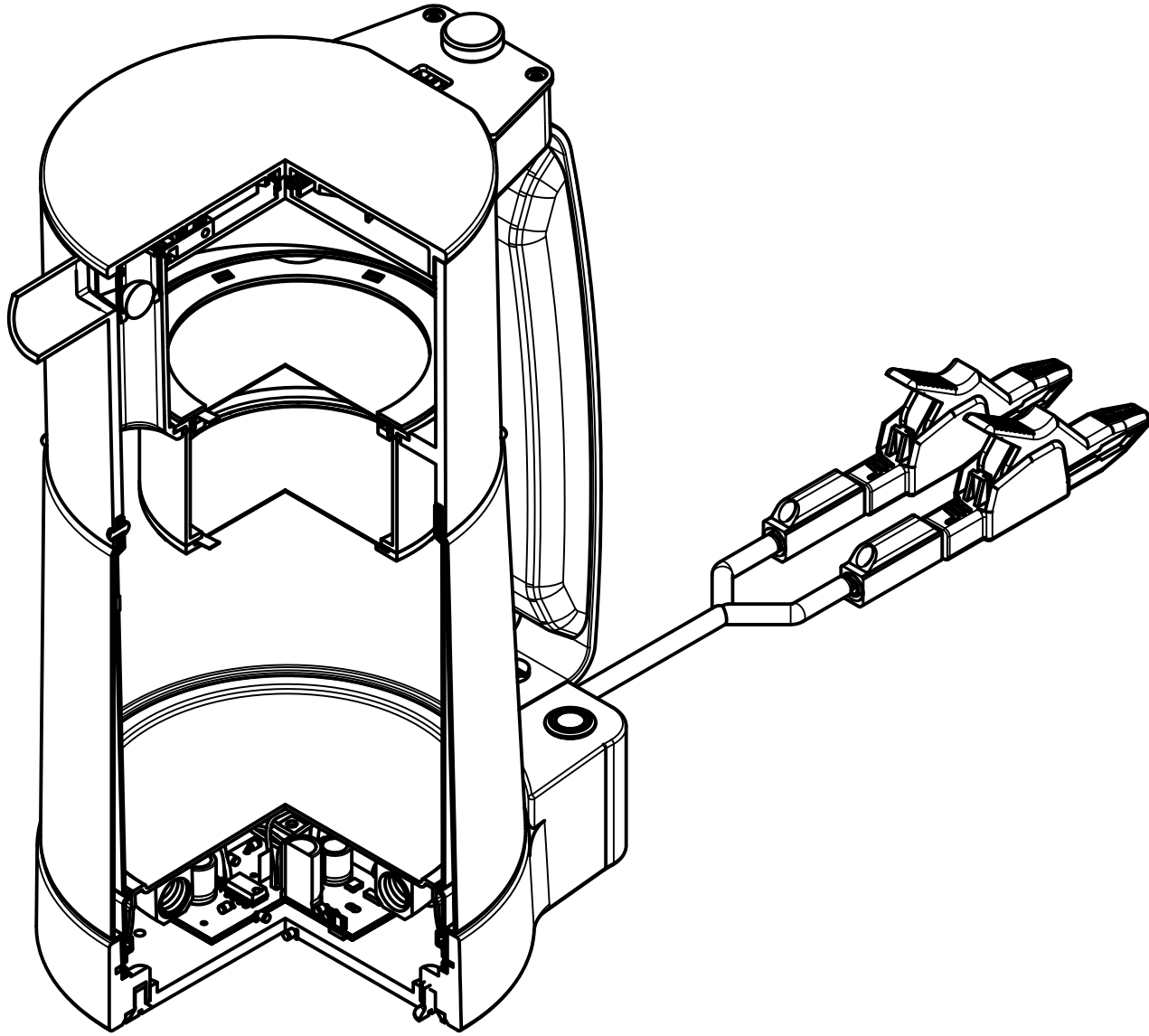
Materials: SEE INDIVIDUAL PART AND SUBASSEMBLY DRAWINGS	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:5	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	3rd ANGLE PROJECTION		PART NO. UOBG6_GENASM_0000		EDITION: 1	
				DATE: 14/05/21		PROJECT: GBDP G06 2021
				ISO / BS8888		SHEET NO.

1 2 3 4 5 6 7 8

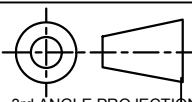

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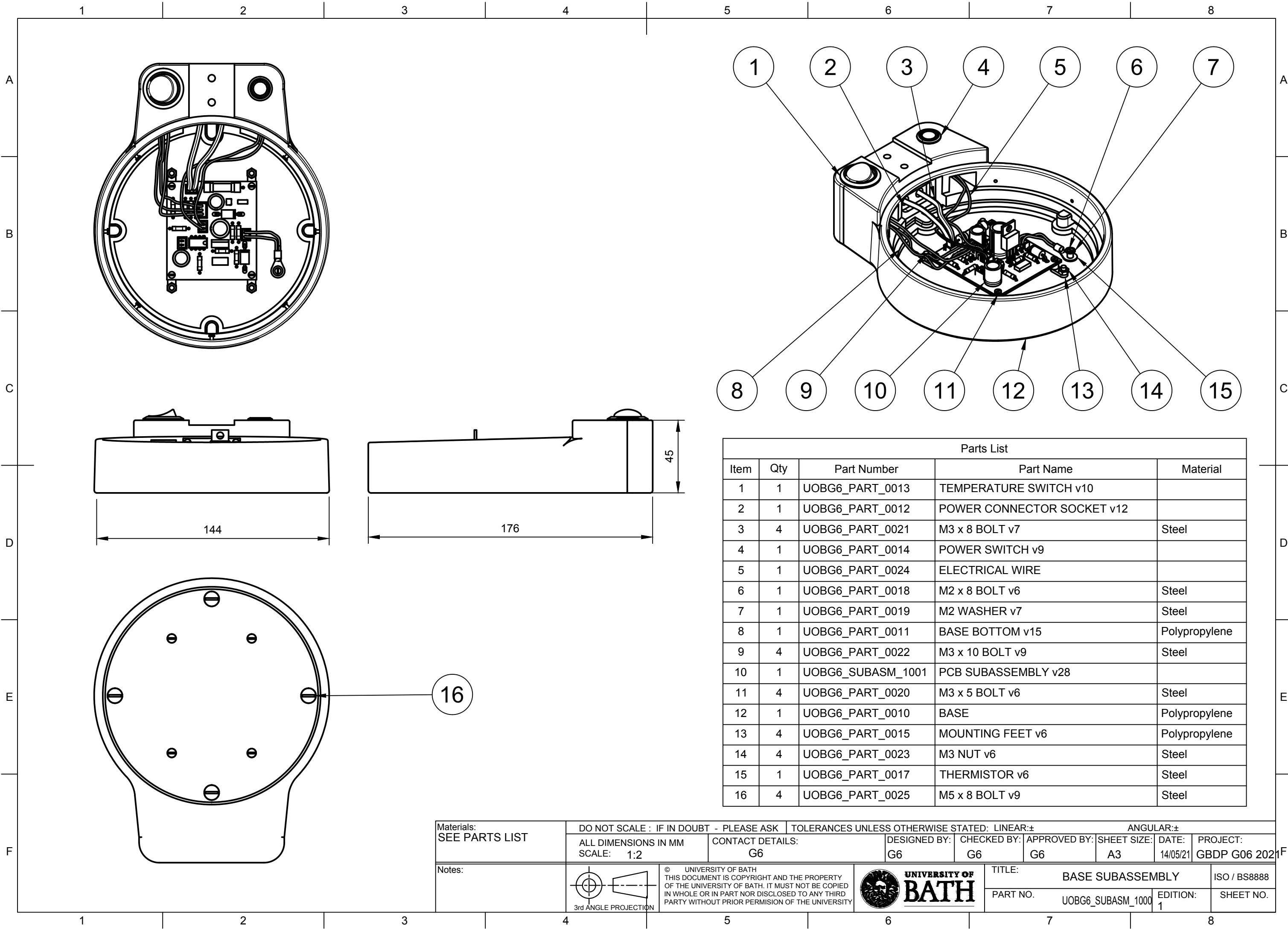
POWER CABLE SUBASSEMBLY  
OMMITTED FOR CLARITY



ISOMETRIC VIEW SCALE IS 1:2

Materials: SEE INDIVIDUAL PART AND SUBASSEMBLY DRAWINGS	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±				ANGULAR:±		
	ALL DIMENSIONS IN MM SCALE: 1:3	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3	DATE: 14/05/21	PROJECT: GBDP G06 2021	
Notes:	 3rd ANGLE PROJECTION		© UNIVERSITY OF BATH THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF THE UNIVERSITY OF BATH. IT MUST NOT BE COPIED IN WHOLE OR IN PART NOR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR PERMISSION OF THE UNIVERSITY				TITLE: GENERAL ASSEMBLY QUARTER SECTION VIEW		ISO / BS8888
					PART NO. UOBG6_GENASM_0000	EDITION: 1	SHEET NO.		

1 2 3 4 5 6 7 8

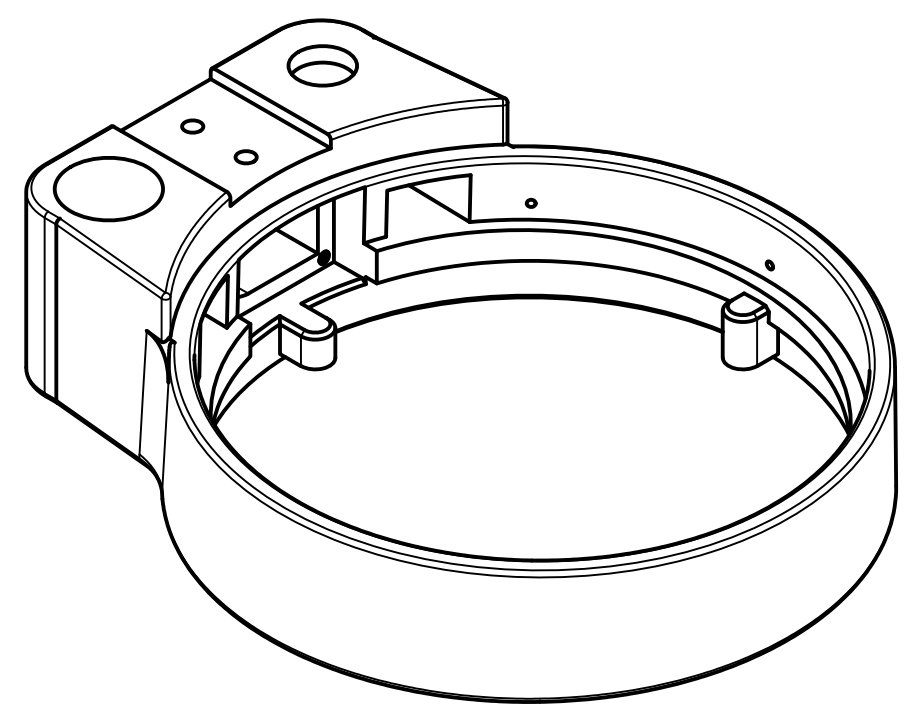
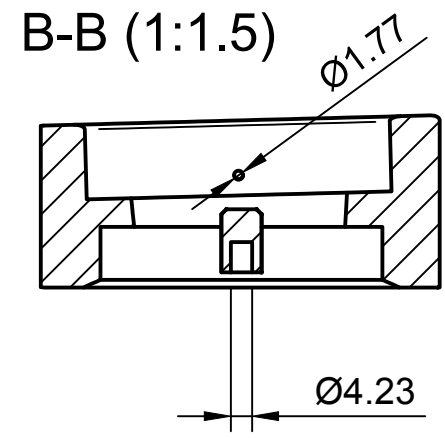
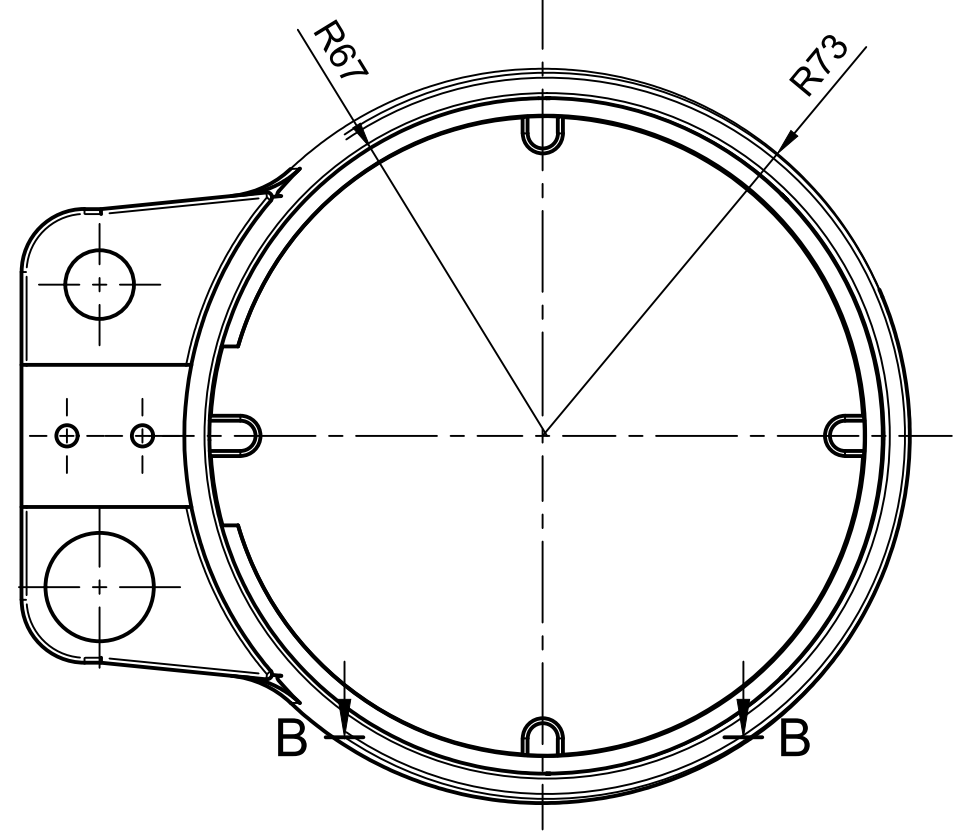
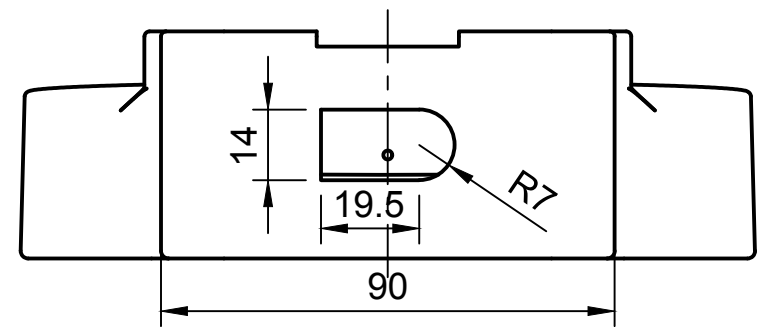
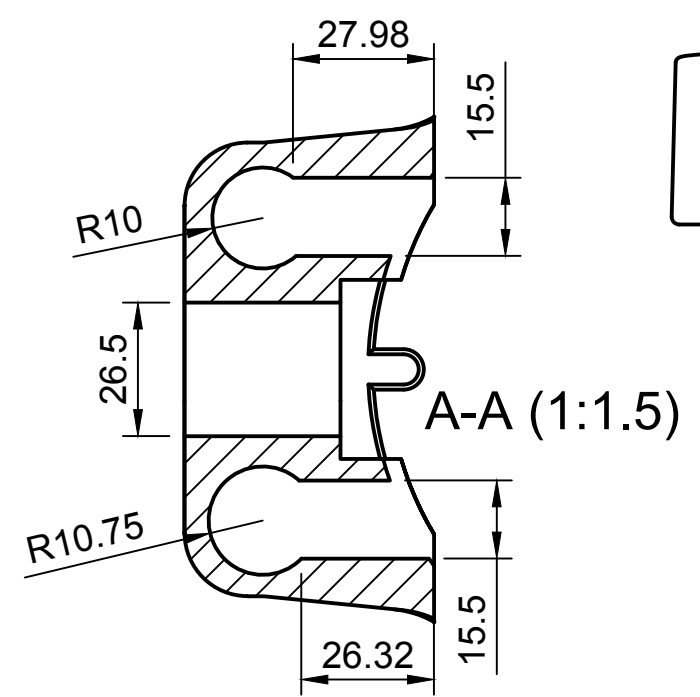
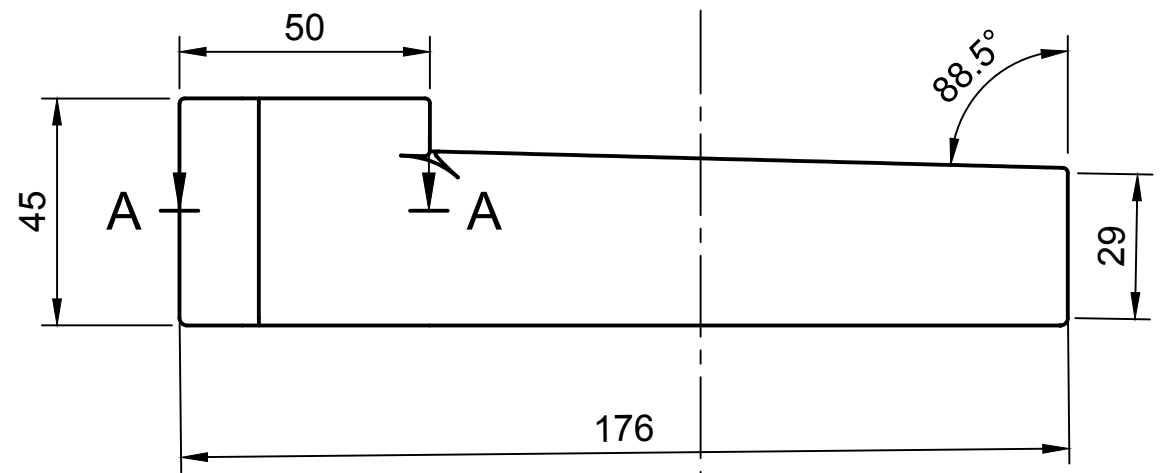


Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_PART_0013	TEMPERATURE SWITCH v10	
2	1	UOBG6_PART_0012	POWER CONNECTOR SOCKET v12	
3	4	UOBG6_PART_0021	M3 x 8 BOLT v7	Steel
4	1	UOBG6_PART_0014	POWER SWITCH v9	
5	1	UOBG6_PART_0024	ELECTRICAL WIRE	
6	1	UOBG6_PART_0018	M2 x 8 BOLT v6	Steel
7	1	UOBG6_PART_0019	M2 WASHER v7	Steel
8	1	UOBG6_PART_0011	BASE BOTTOM v15	Polypropylene
9	4	UOBG6_PART_0022	M3 x 10 BOLT v9	Steel
10	1	UOBG6_SUBASM_1001	PCB SUBASSEMBLY v28	
11	4	UOBG6_PART_0020	M3 x 5 BOLT v6	Steel
12	1	UOBG6_PART_0010	BASE	Polypropylene
13	4	UOBG6_PART_0015	MOUNTING FEET v6	Polypropylene
14	4	UOBG6_PART_0023	M3 NUT v6	Steel
15	1	UOBG6_PART_0017	THERMISTOR v6	Steel
16	4	UOBG6_PART_0025	M5 x 8 BOLT v9	Steel

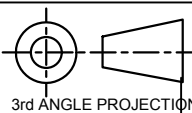

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	3rd ANGLE PROJECTION		PART NO. UOBG6_SUBASM_1000		EDITION: 1	
				DATE: 14/05/21		PROJECT: GBDP G06 2021
				ISO / BS8888		SHEET NO.

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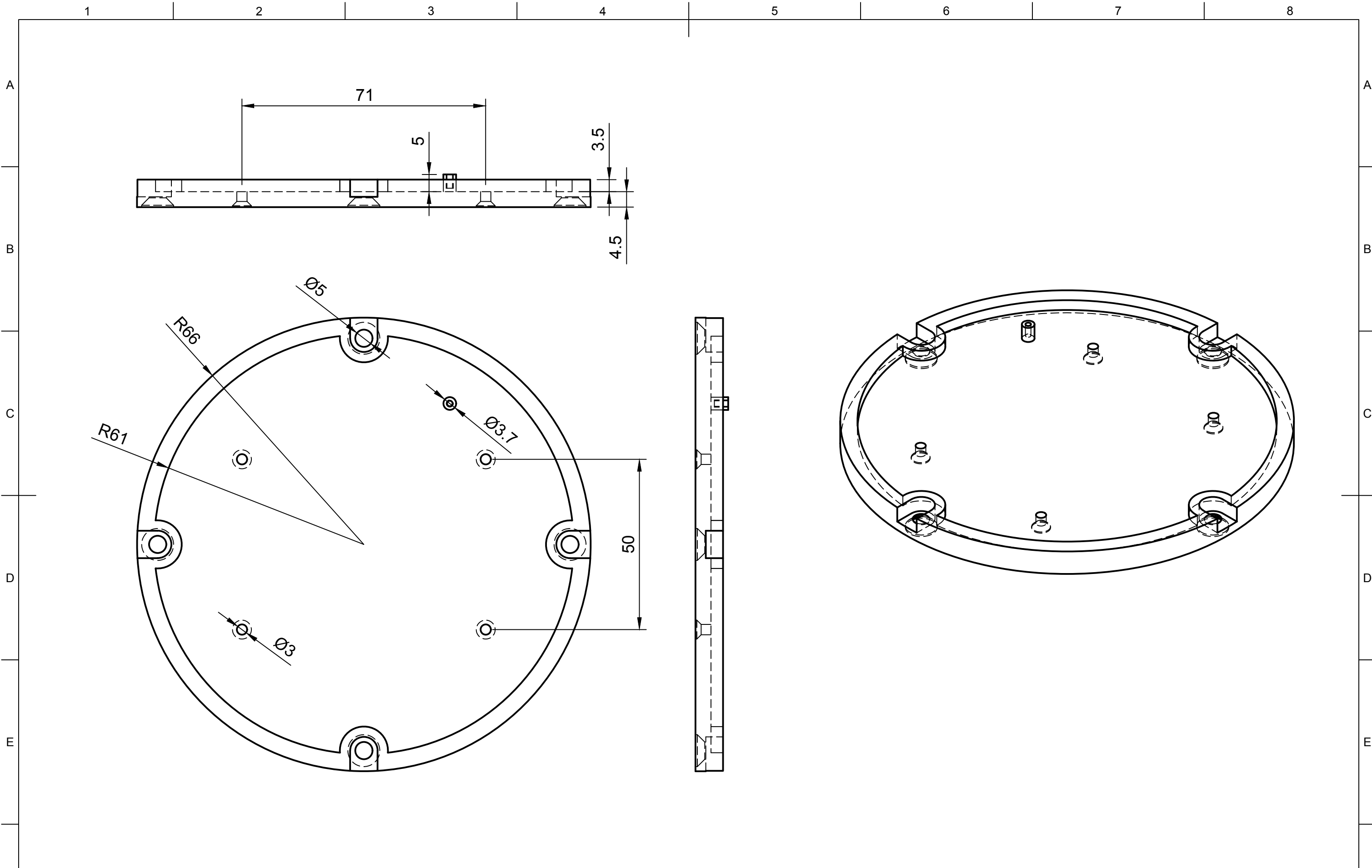
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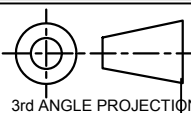

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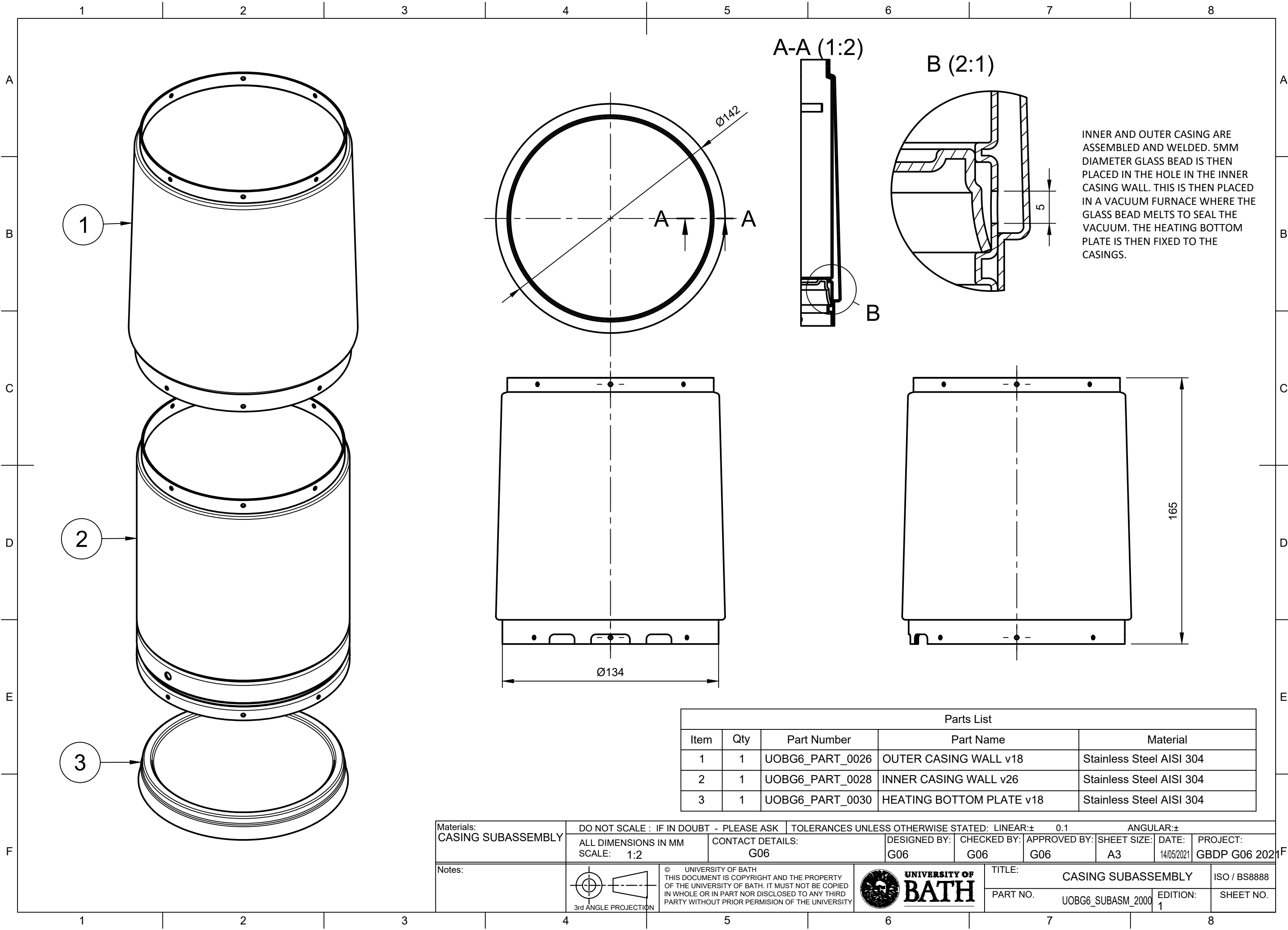
Materials: STAINLESS STEEL AISI 304	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:1.5	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: BASE PART DRAWING		ISO / BS8888	
			PART NO. UOBG6_PART_0010		EDITION: 1	
					SHEET NO.	

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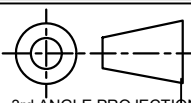

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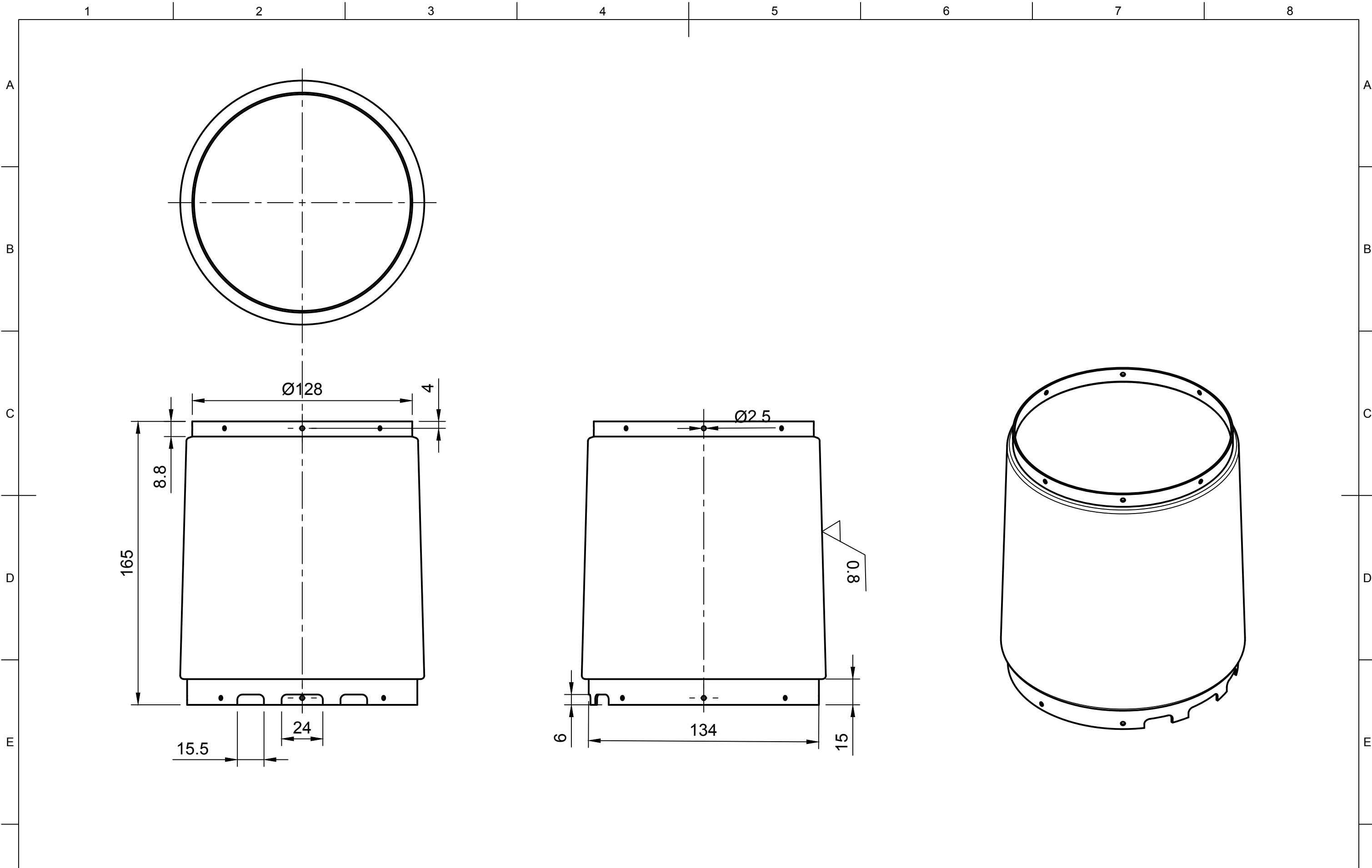
Materials: STAINLESS STEEL AISI 305	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: BASE BOTTOM		ISO / BS8888	
			PART NO. UOBG6_PART_001		EDITION: 1	
					SHEET NO.	

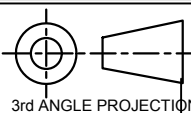



INNER AND OUTER CASING ARE ASSEMBLED AND WELDED. 5MM DIAMETER GLASS BEAD IS THEN PLACED IN THE HOLE IN THE INNER CASING WALL. THIS IS THEN PLACED IN A VACUUM FURNACE WHERE THE GLASS BEAD MELTS TO SEAL THE VACUUM. THE HEATING BOTTOM PLATE IS THEN FIXED TO THE CASINGS.

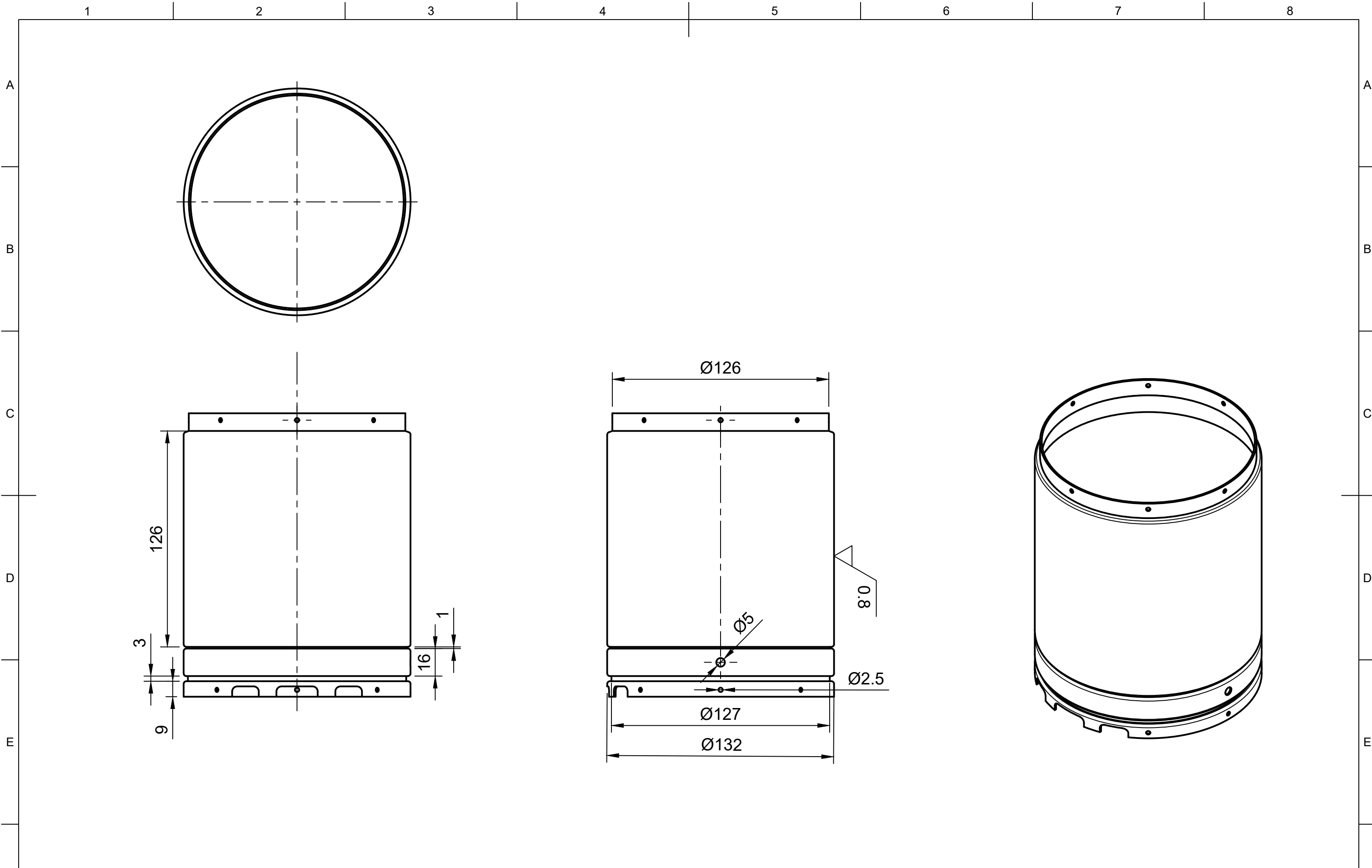
Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_PART_0026	OUTER CASING WALL v18	Stainless Steel AISI 304
2	1	UOBG6_PART_0028	INNER CASING WALL v26	Stainless Steel AISI 304
3	1	UOBG6_PART_0030	HEATING BOTTOM PLATE v18	Stainless Steel AISI 304

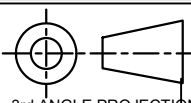

Materials: CASING SUBASSEMBLY	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.1		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G06	DESIGNED BY: G06	CHECKED BY: G06	APPROVED BY: G06	SHEET SIZE: A3
Notes:	 3rd ANGLE PROJECTION		 UNIVERSITY OF BATH THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF THE UNIVERSITY OF BATH. IT MUST NOT BE COPIED IN WHOLE OR IN PART NOR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR PERMISSION OF THE UNIVERSITY		TITLE: CASING SUBASSEMBLY ISO / BS8888 PART NO. UOBG6_SUBASM_2000 EDITION: 1 SHEET NO.	

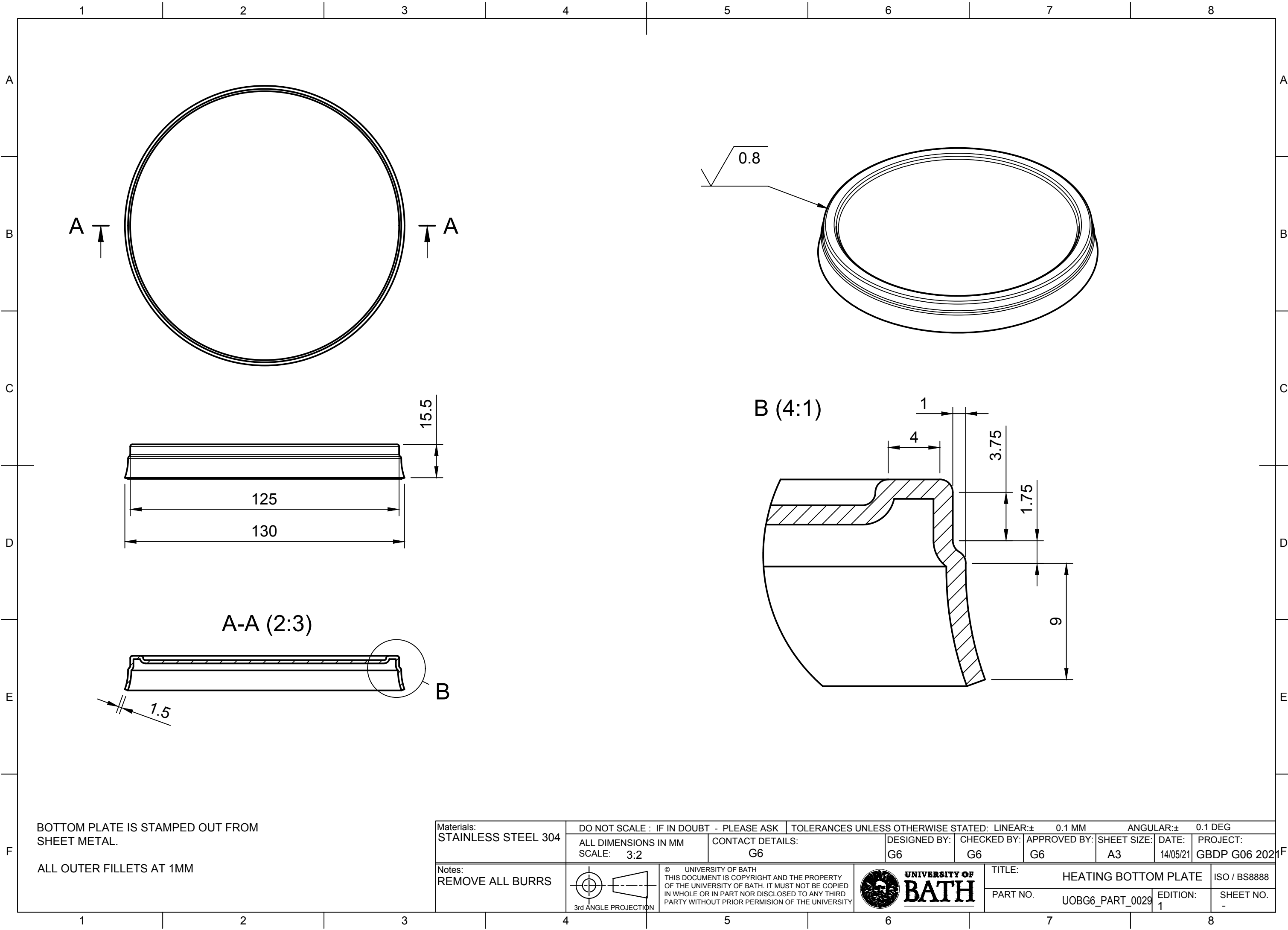


Materials: STAINLESS STEEL AISI 304	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.1 MM		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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TITLE: OUTER CASING WALL			PROJECT: GBDP G06 2021		ISO / BS8888	
PART NO. UOBG6_PART_0026			EDITION: 1		SHEET NO.	



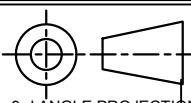



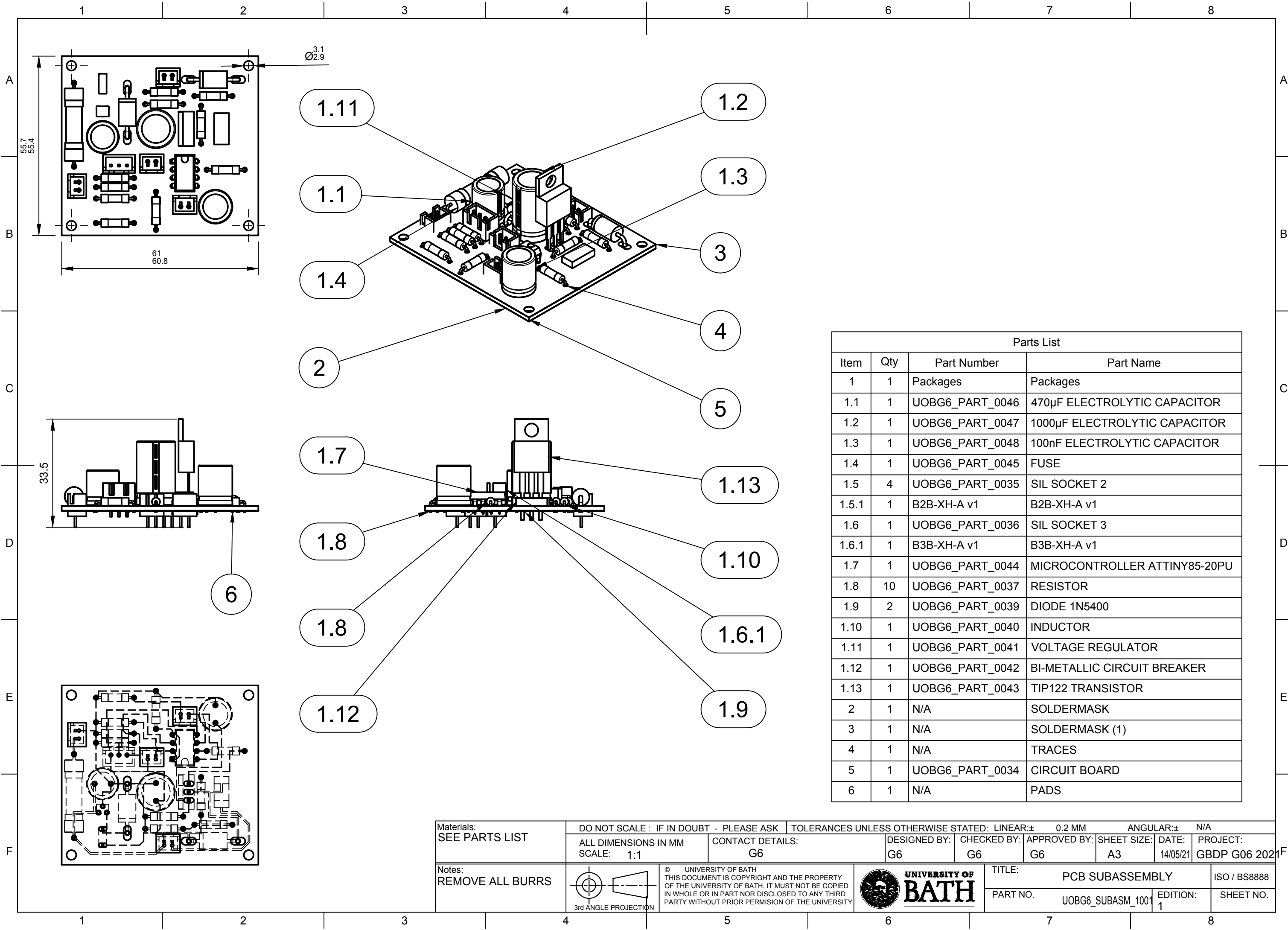
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	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: INNER CASING WALL		ISO / BS8888	
			PART NO. UOBG6_PART_0027		EDITION: 1	
					PROJECT: GBDP G06 2021	
					SHEET NO.	



BOTTOM PLATE IS STAMPED OUT FROM SHEET METAL.

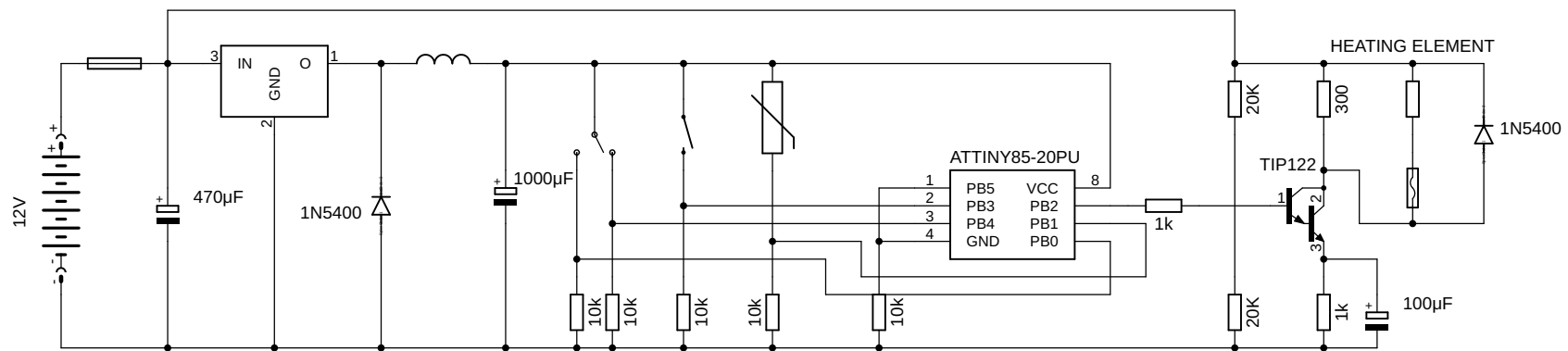
ALL OUTER FILLETS AT 1MM

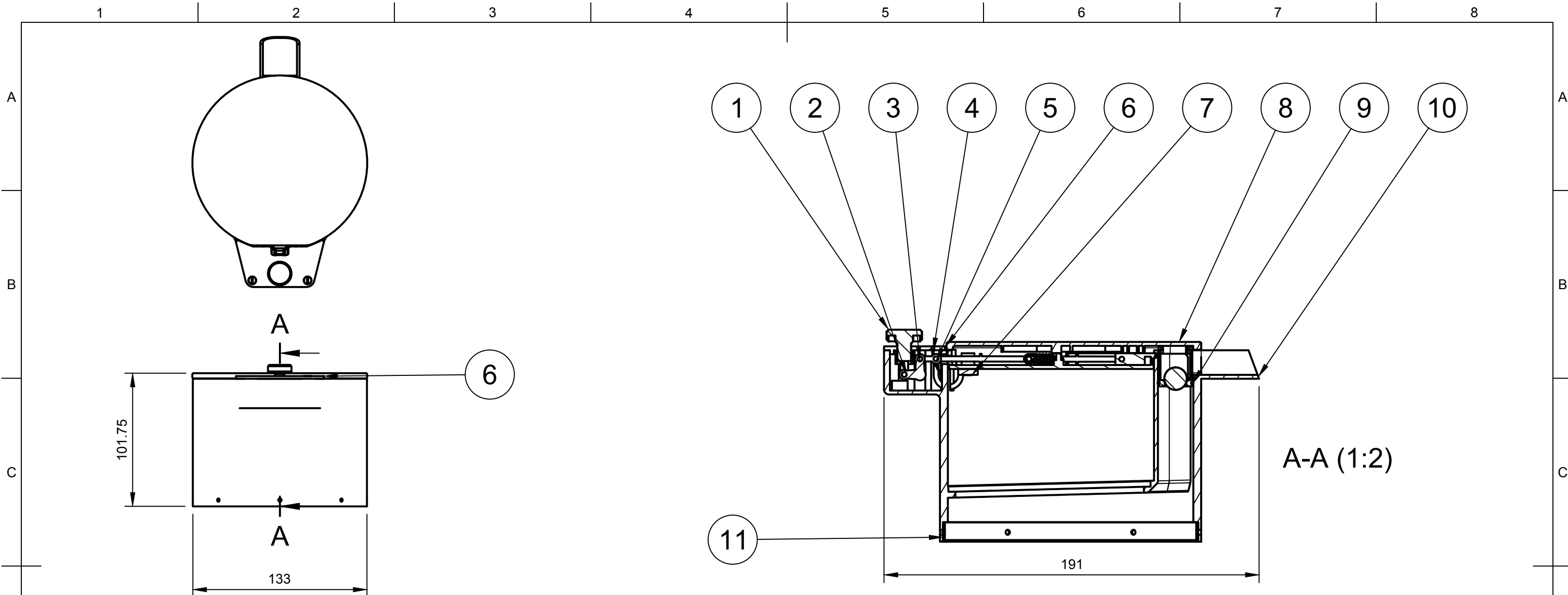
Materials: <b>STAINLESS STEEL 304</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.1 MM		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 3:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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					PART NO. UOBG6_PART_0029	EDITION: 1
						SHEET NO. -



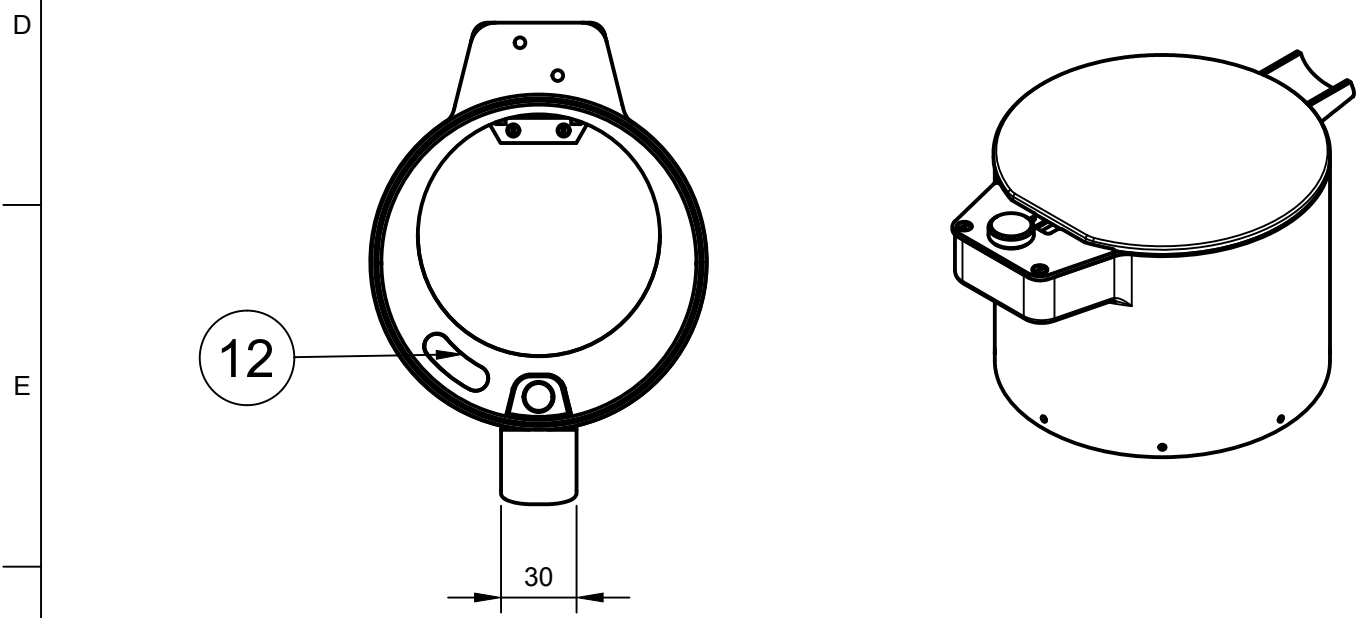
Parts List			
Item	Qty	Part Number	Part Name
1	1	Packages	Packages
1.1	1	UOBG6_PART_0046	470µF ELECTROLYTIC CAPACITOR
1.2	1	UOBG6_PART_0047	1000µF ELECTROLYTIC CAPACITOR
1.3	1	UOBG6_PART_0048	100nF ELECTROLYTIC CAPACITOR
1.4	1	UOBG6_PART_0045	FUSE
1.5	4	UOBG6_PART_0035	SIL SOCKET 2
1.5.1	1	B2B-XH-A v1	B2B-XH-A v1
1.6	1	UOBG6_PART_0036	SIL SOCKET 3
1.6.1	1	B3B-XH-A v1	B3B-XH-A v1
1.7	1	UOBG6_PART_0044	MICROCONTROLLER ATTINY85-20PU
1.8	10	UOBG6_PART_0037	RESISTOR
1.9	2	UOBG6_PART_0039	DIODE 1N5400
1.10	1	UOBG6_PART_0040	INDUCTOR
1.11	1	UOBG6_PART_0041	VOLTAGE REGULATOR
1.12	1	UOBG6_PART_0042	BI-METALLIC CIRCUIT BREAKER
1.13	1	UOBG6_PART_0043	TIP122 TRANSISTOR
2	1	N/A	SOLDERMASK
3	1	N/A	SOLDERMASK (1)
4	1	N/A	TRACES
5	1	UOBG6_PART_0034	CIRCUIT BOARD
6	1	N/A	PADS

Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.2 MM		ANGULAR:± N/A		
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3	
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	3rd ANGLE PROJECTION		PART NO. UOBG6_SUBASM_1001		EDITION: 1		
				PROJECT: GBDP G06 2021		SHEET NO. ISO / BS8888	

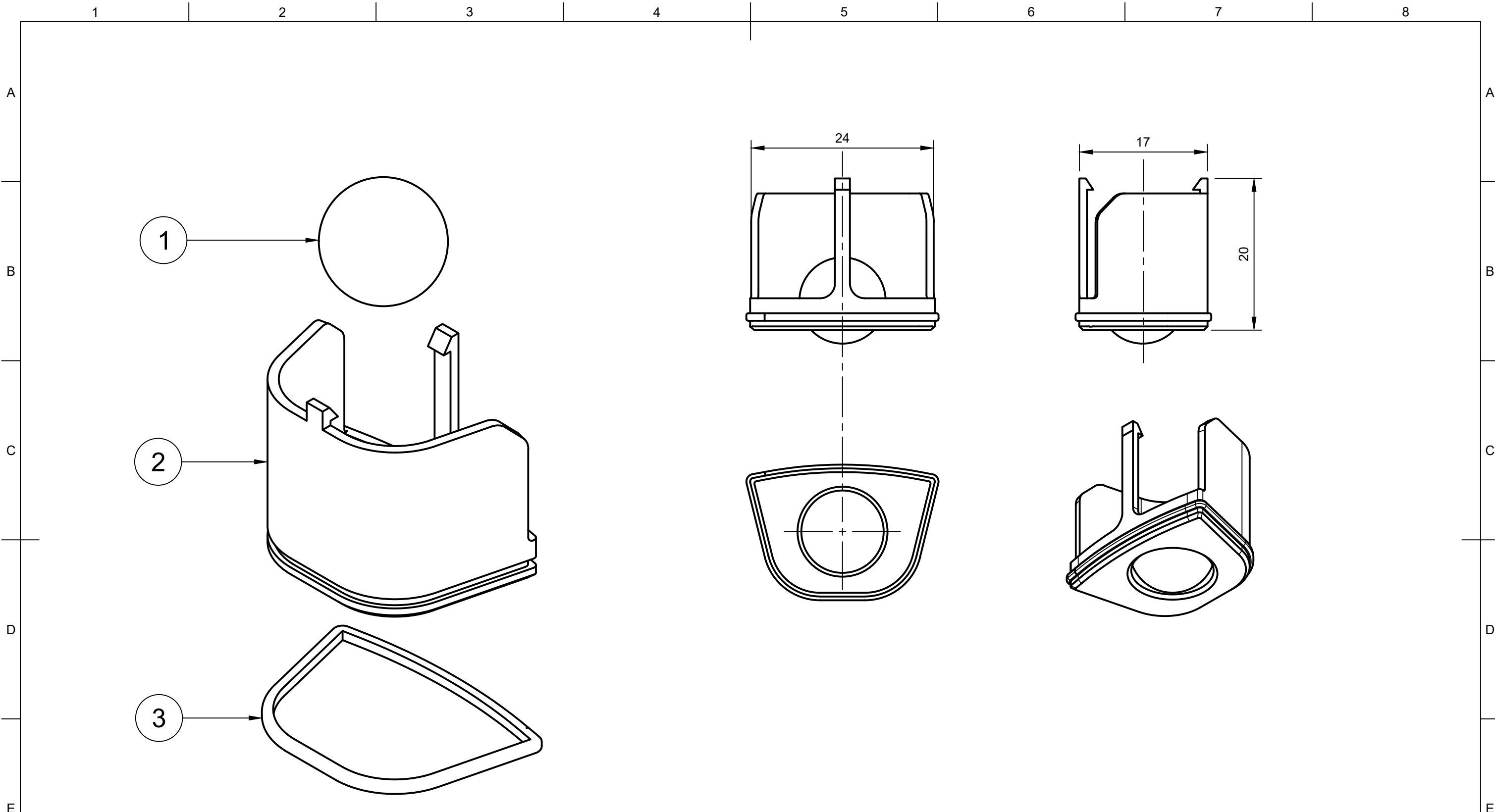




Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_SUBASM_3002	LATCH MECHANISM SUBASSEMBLY v59	
2	1	UOBG6_PART_0070	5 x 2.5 RIVET v3	Plastic
3	1	UOBG6_PART_0068	8 x 2.5 RIVET v3	Polypropylene
4	1	UOBG6_SUBASM_3003	HINGE SUBASSEMBLY v17	
5	1	UOBG6_PART_0069	12 x 2.5 RIVET v5	Polypropylene
6	1	UOBG6_PART_0067	LATCH MECHANISM HOLDER v61	Polypropylene
7	2	UOBG6_PART_0021	M3 x 8 BOLT v7	Steel
8	1	UOBG6_PART_0050	LID TOP v81	Polypropylene
9	1	UOBG6_SUBASM_3001	STEAM RELEASE SUBASSEMBLY v25	
10	1	UOBG6_PART_0054	SPOUT CASING v127	Polypropylene
11	1	UOBG6_PART_0055	GASKET v11	Rubber
12	1	UOBG6_PART_0071	FILL WINDOW v6	PMMA Plastic
13	2	UOBG6_PART_0022	M3 x 10 BOLT v9	Steel

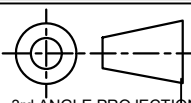



Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±		ANGULAR:±	
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	3rd ANGLE PROJECTION		PART NO. UOBG6_SUBASM_2000		EDITION: 1	
				DATE: 14/05/21		PROJECT: GBDP G06 2021
				SHEET NO.		

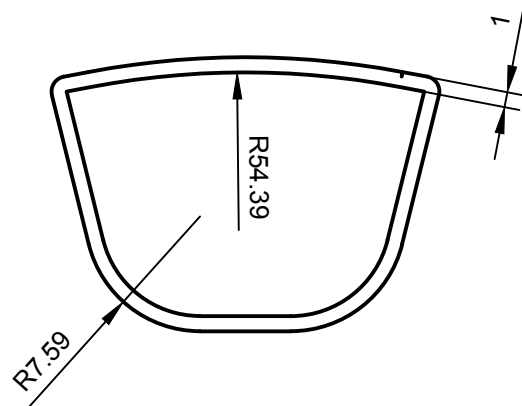


EXPLODED ISOMETRIC VIEW SCALE IS 3:1

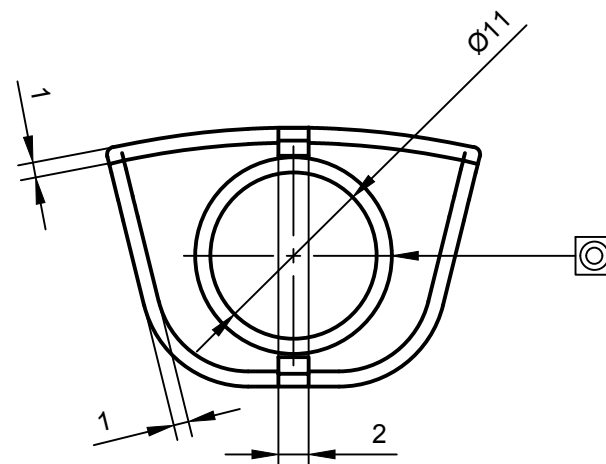
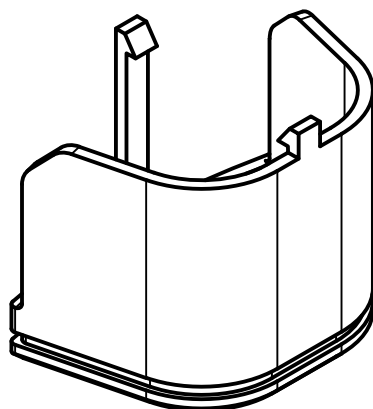
Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_PART_0051	STEAM RELEASE BALL v12	Rubber, Silicone
2	1	UOBG6_PART_0052	STEAM RELEASE CAP v35	Polypropylene
3	1	UOBG6_PART_0053	STEAM RELEASE SEAL v9	Rubber

Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±		ANGULAR:±		
	ALL DIMENSIONS IN MM SCALE: 3:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3	
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	TITLE: STEAM RELEASE SUBASSEMBLY			ISO / BS8888	PART NO. UOBG6_SUBASM_3001		EDITION: 1
						SHEET NO.	

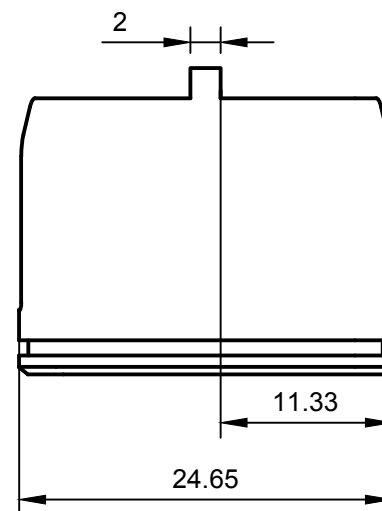
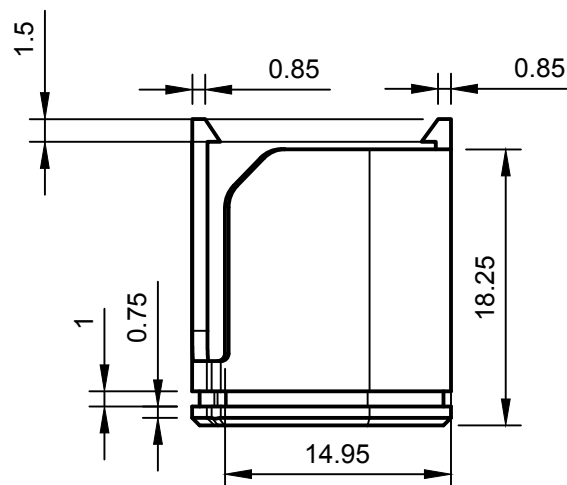
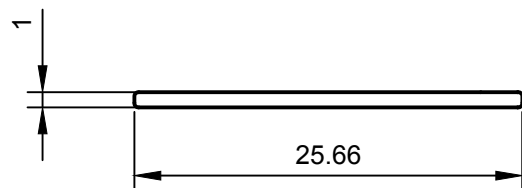
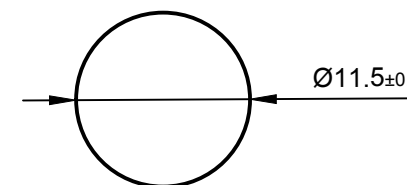
**STEAM RELEASE SEAL**  
 UOBG6\_PART\_0053  
 RUBBER, SILICONE



**STEAM RELEASE CAP**  
 UOBG6\_PART\_0052  
 POLYPROPYLENE



**STEAM RELEASE BALL**  
 UOBG6\_PART\_0051  
 RUBBER, SILICONE

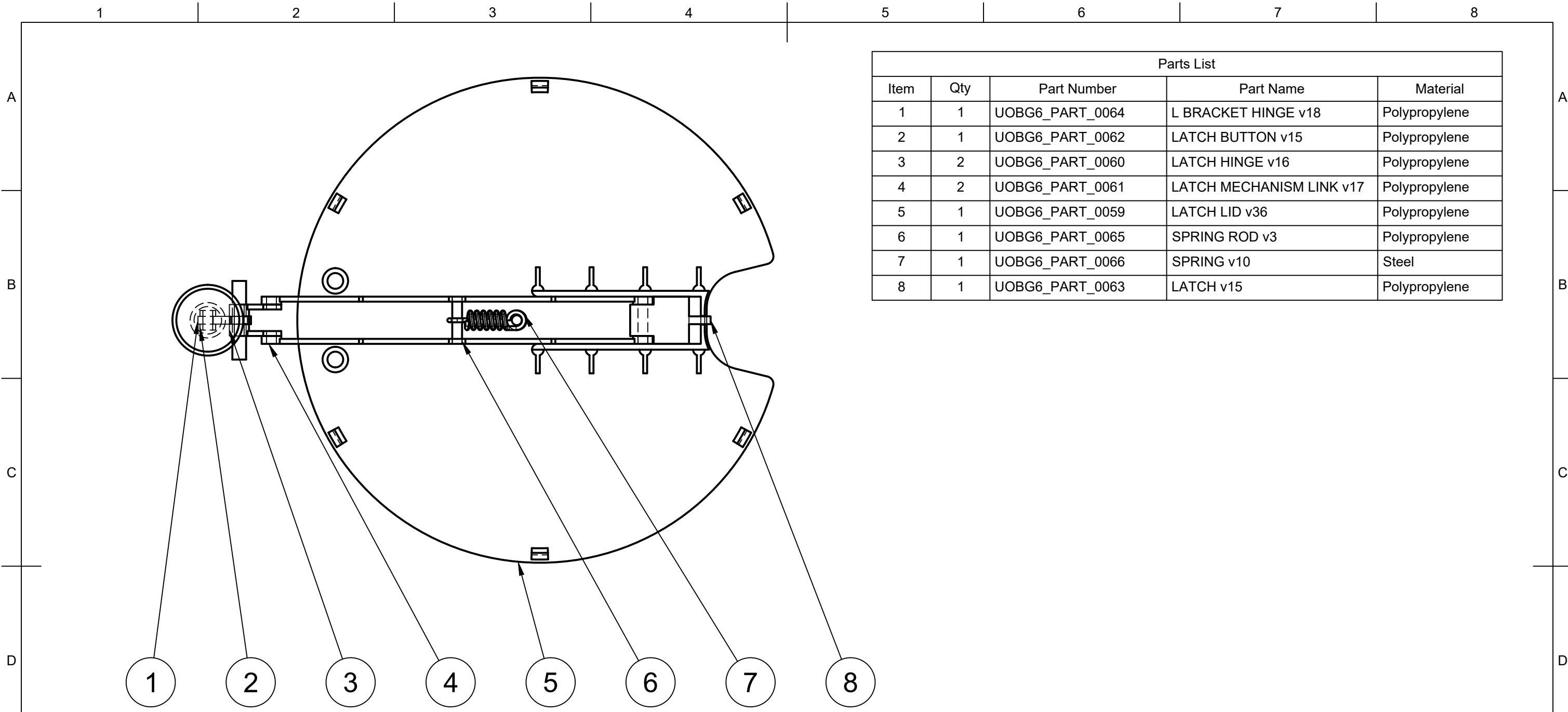


THIS PART IS INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

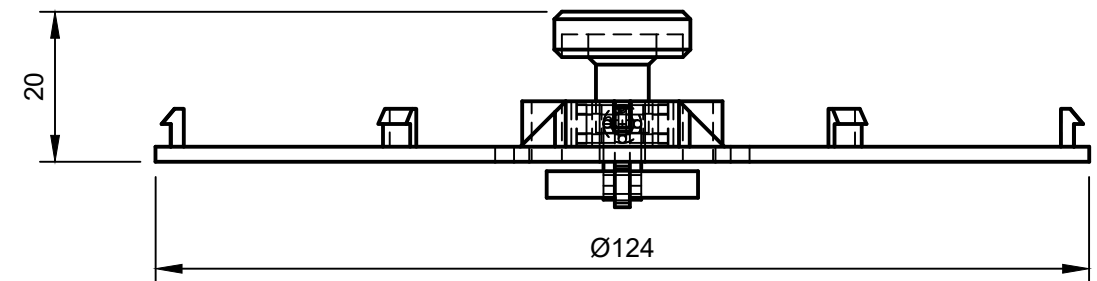
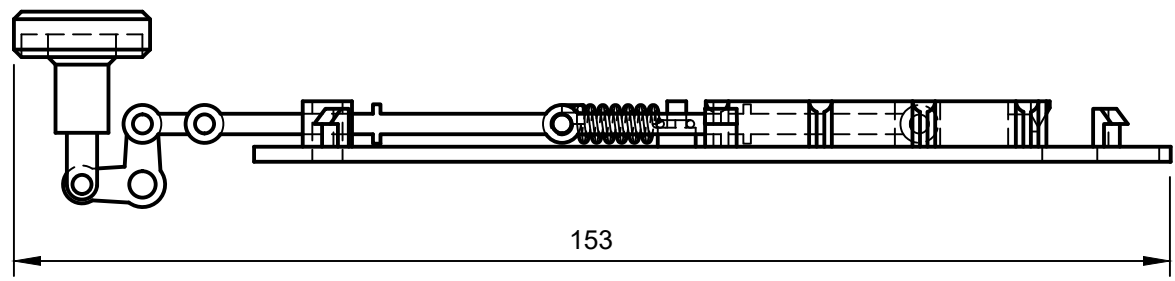
Materials: SEE INDIVIDUAL PART	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375mm		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	3rd ANGLE PROJECTION		PART NO. SEE INDIVIDUAL PART		EDITION: 1	SHEET NO.

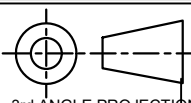

PROJECT: GBDP G06 2021

ISO / BS8888



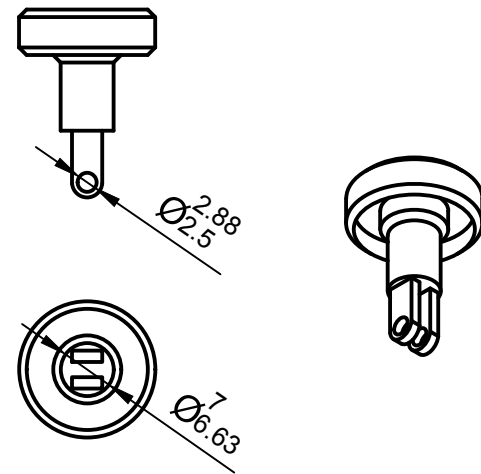
Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_PART_0064	L BRACKET HINGE v18	Polypropylene
2	1	UOBG6_PART_0062	LATCH BUTTON v15	Polypropylene
3	2	UOBG6_PART_0060	LATCH HINGE v16	Polypropylene
4	2	UOBG6_PART_0061	LATCH MECHANISM LINK v17	Polypropylene
5	1	UOBG6_PART_0059	LATCH LID v36	Polypropylene
6	1	UOBG6_PART_0065	SPRING ROD v3	Polypropylene
7	1	UOBG6_PART_0066	SPRING v10	Steel
8	1	UOBG6_PART_0063	LATCH v15	Polypropylene



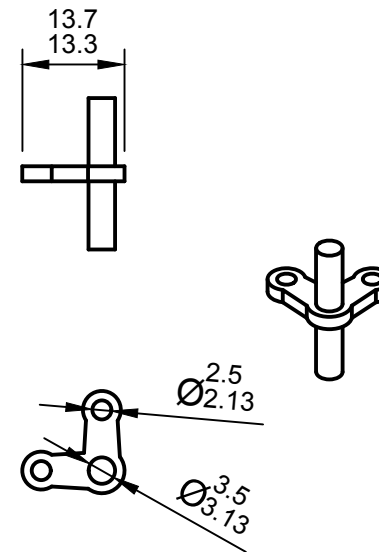
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	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	DATE: 14/05/21 PROJECT: GBDP G06 2021		SHEET NO.		ISO / BS8888	



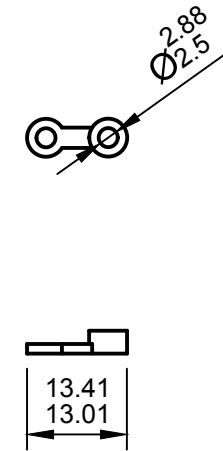
LATCH BUTTON  
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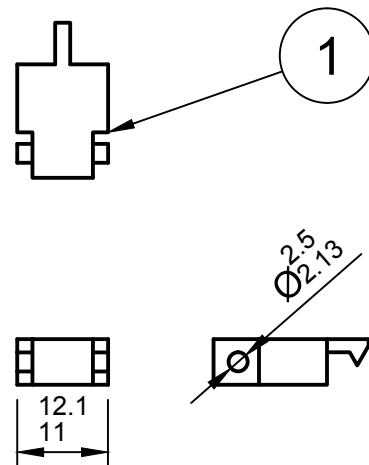
L BRACKET HINGE  
UOBG6\_PART\_0064



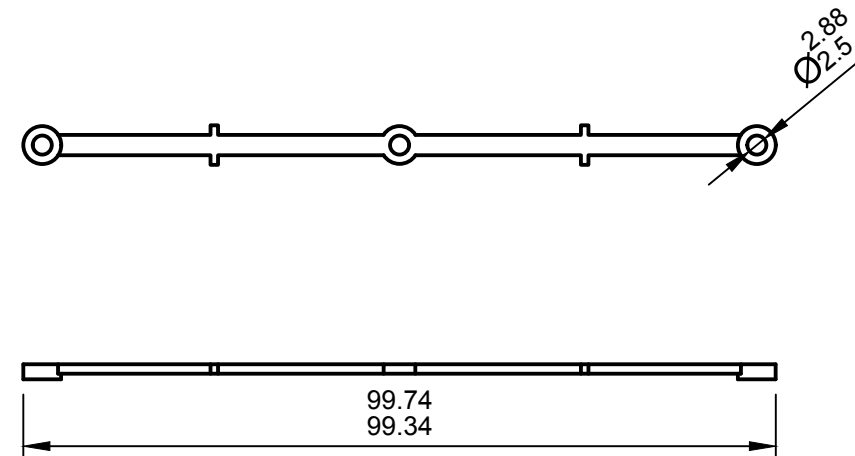
LATCH HINGE  
UOBG6\_PART\_0060



LATCH  
UOBG6\_PART\_0063



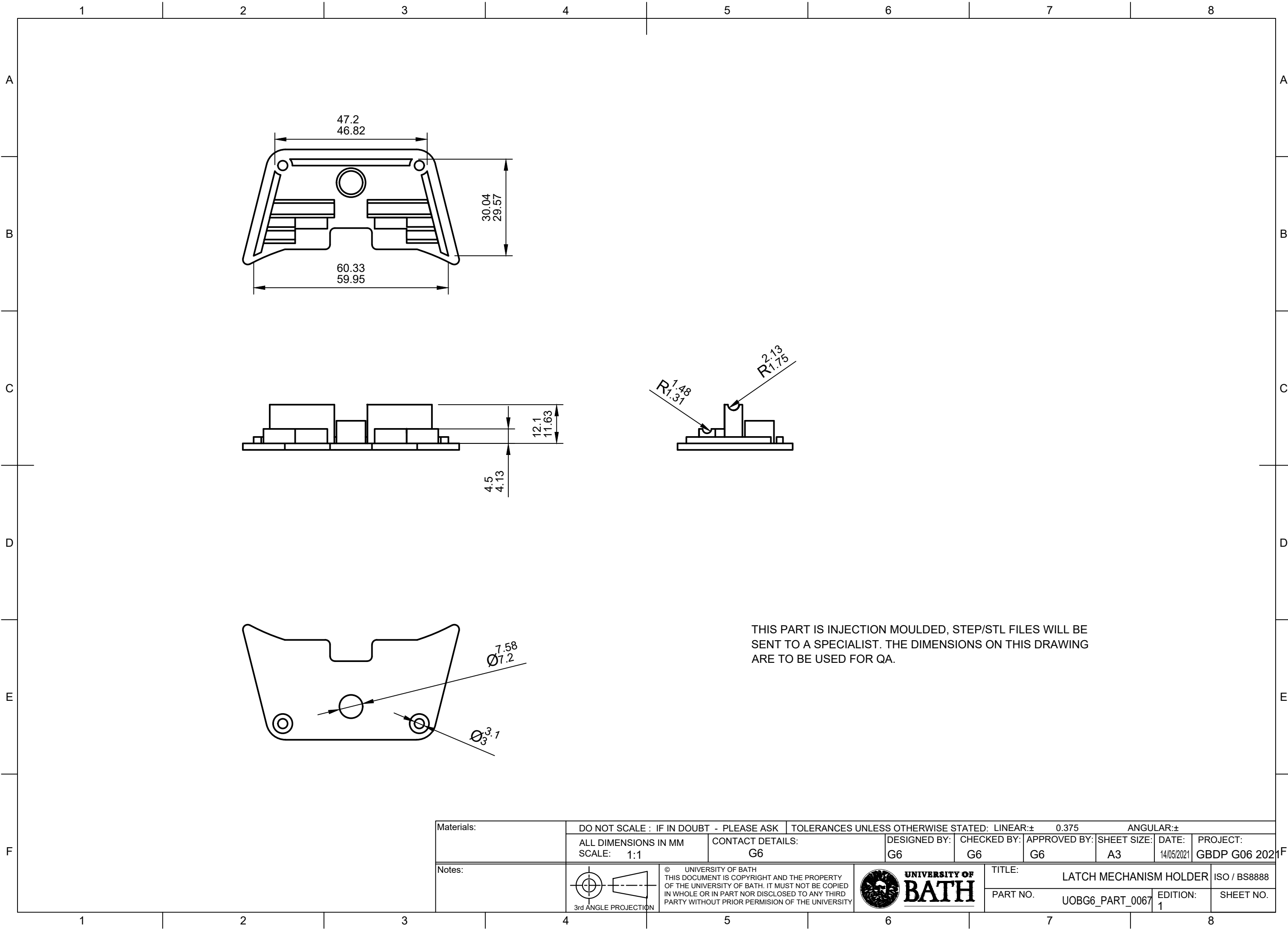
LATCH MECHANISM LINK  
UOBG6\_PART\_0061



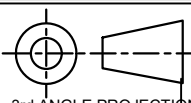

ALL COMPONENTS ARE INJECTION MOULDED POLYPROPYLENE.

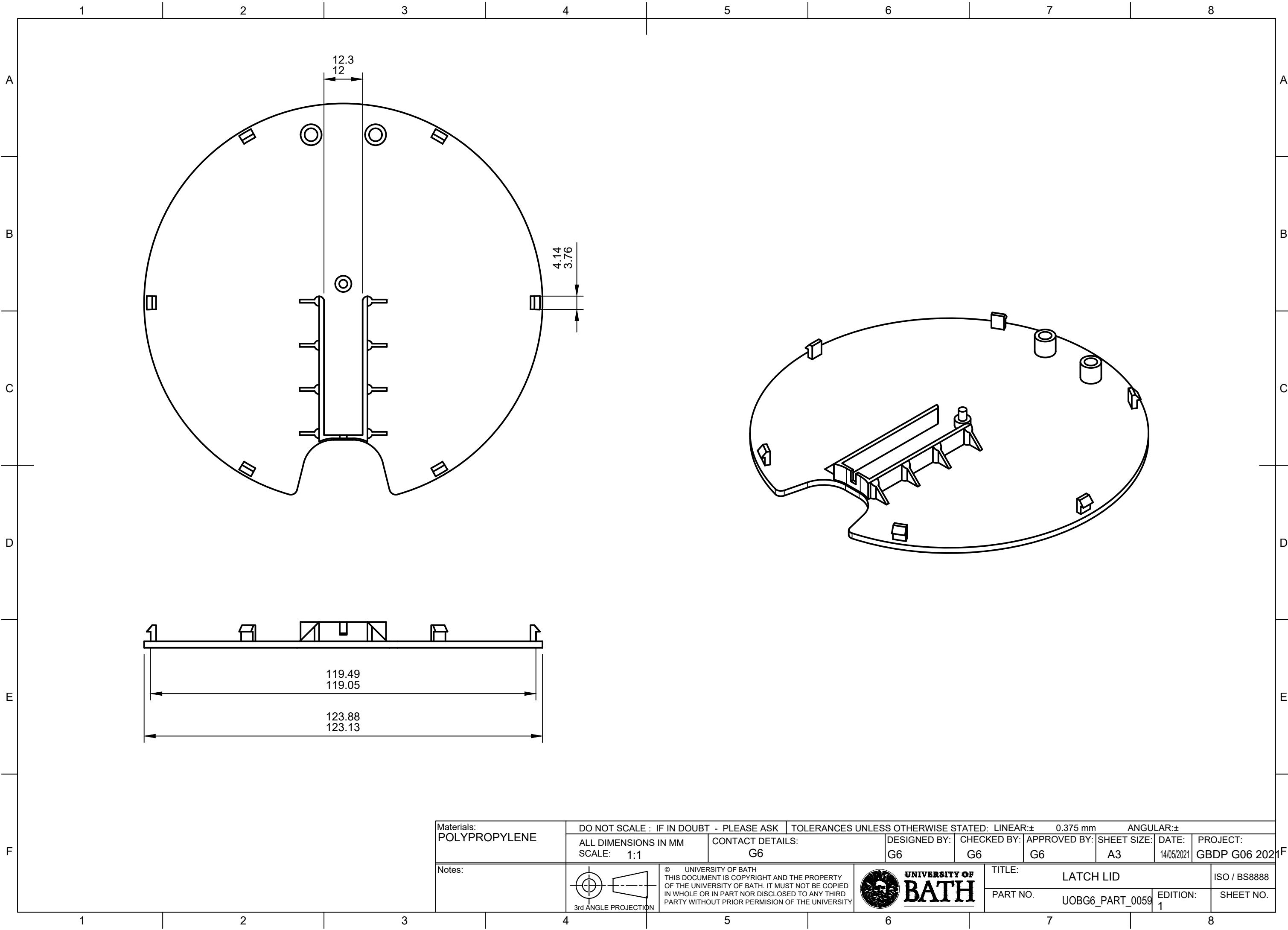
THESE PARTS ARE INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

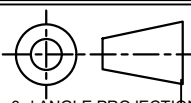

Materials:	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	3rd ANGLE PROJECTION		PART NO. SEE INDIVIDUAL PARTS		EDITION: 1	PROJECT: GBDP G06 2021
				DATE: 14/05/2021		SHEET NO. 1

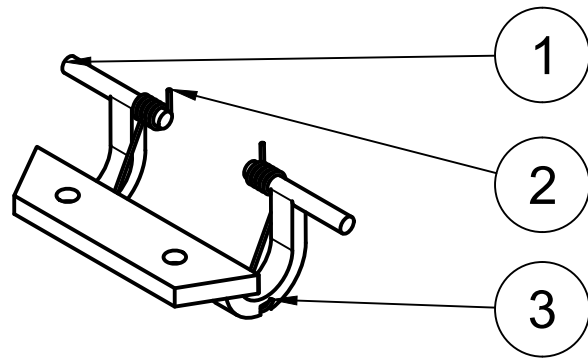


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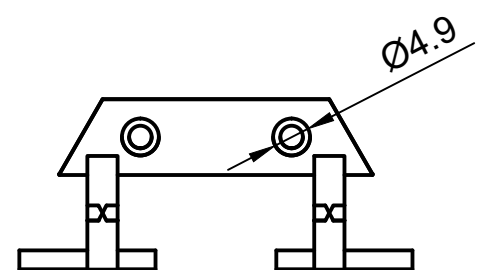
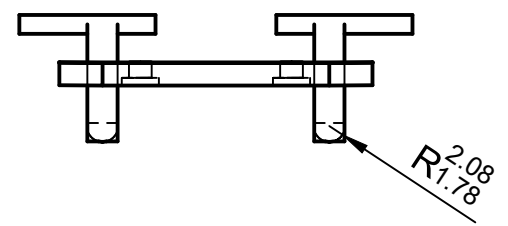
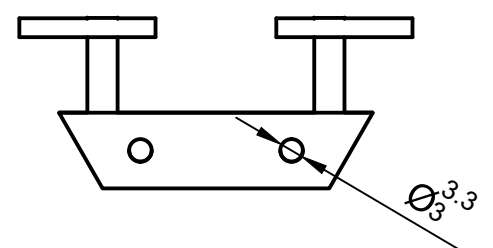
Materials:	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	TITLE: LATCH MECHANISM HOLDER			ISO / BS8888		PROJECT: GBDP G06 2021
PART NO. UOBG6_PART_0067			EDITION: 1		SHEET NO.	



Materials: <b>POLYPROPYLENE</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 mm		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
Notes:	 3rd ANGLE PROJECTION		© UNIVERSITY OF BATH THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF THE UNIVERSITY OF BATH. IT MUST NOT BE COPIED IN WHOLE OR IN PART NOR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR PERMISSION OF THE UNIVERSITY			
			TITLE: LATCH LID		ISO / BS8888	
			PART NO. UOBG6_PART_0059		EDITION: 1	
					SHEET NO.	

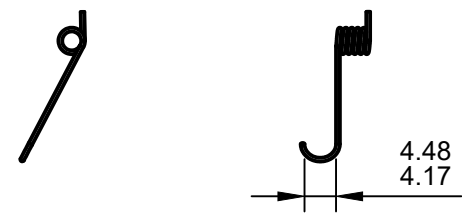
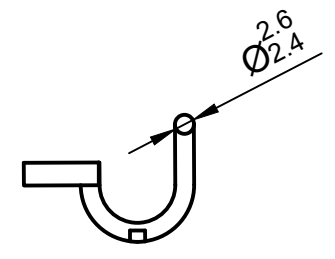


Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_PART_0072	LID HINGE v14	Polypropylene
2	1	UOBG6_PART_0073	HINGE SPRING v30	Steel
3	1	UOBG6_PART_0073	HINGE SPRING	Steel



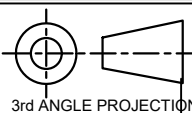

**LID HINGE**  
**UOBG6\_PART\_0072**

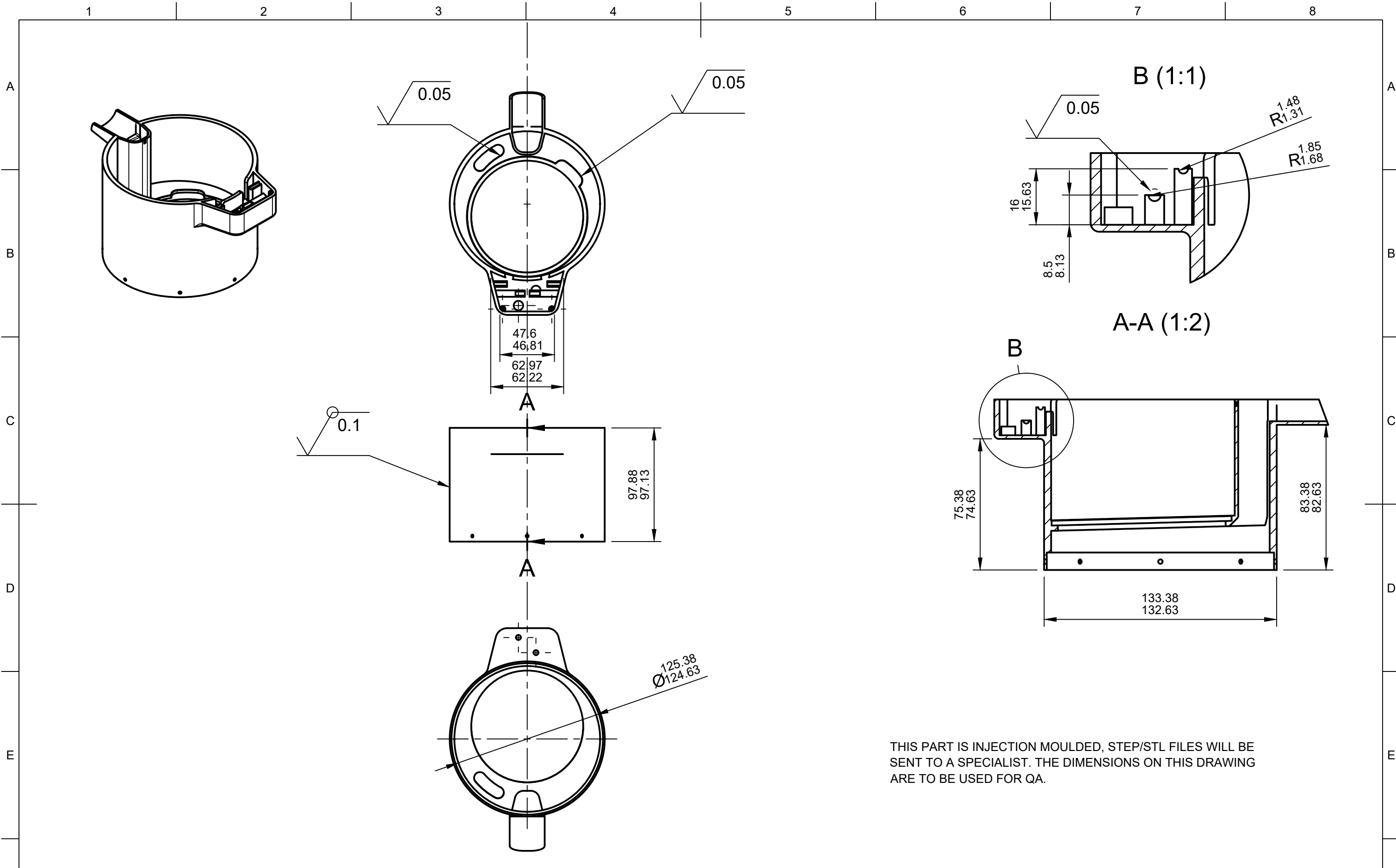
THIS PART IS INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.



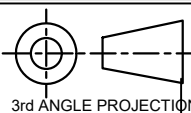

**HINGE SPRING**  
**UOBG6\_PART\_0073**

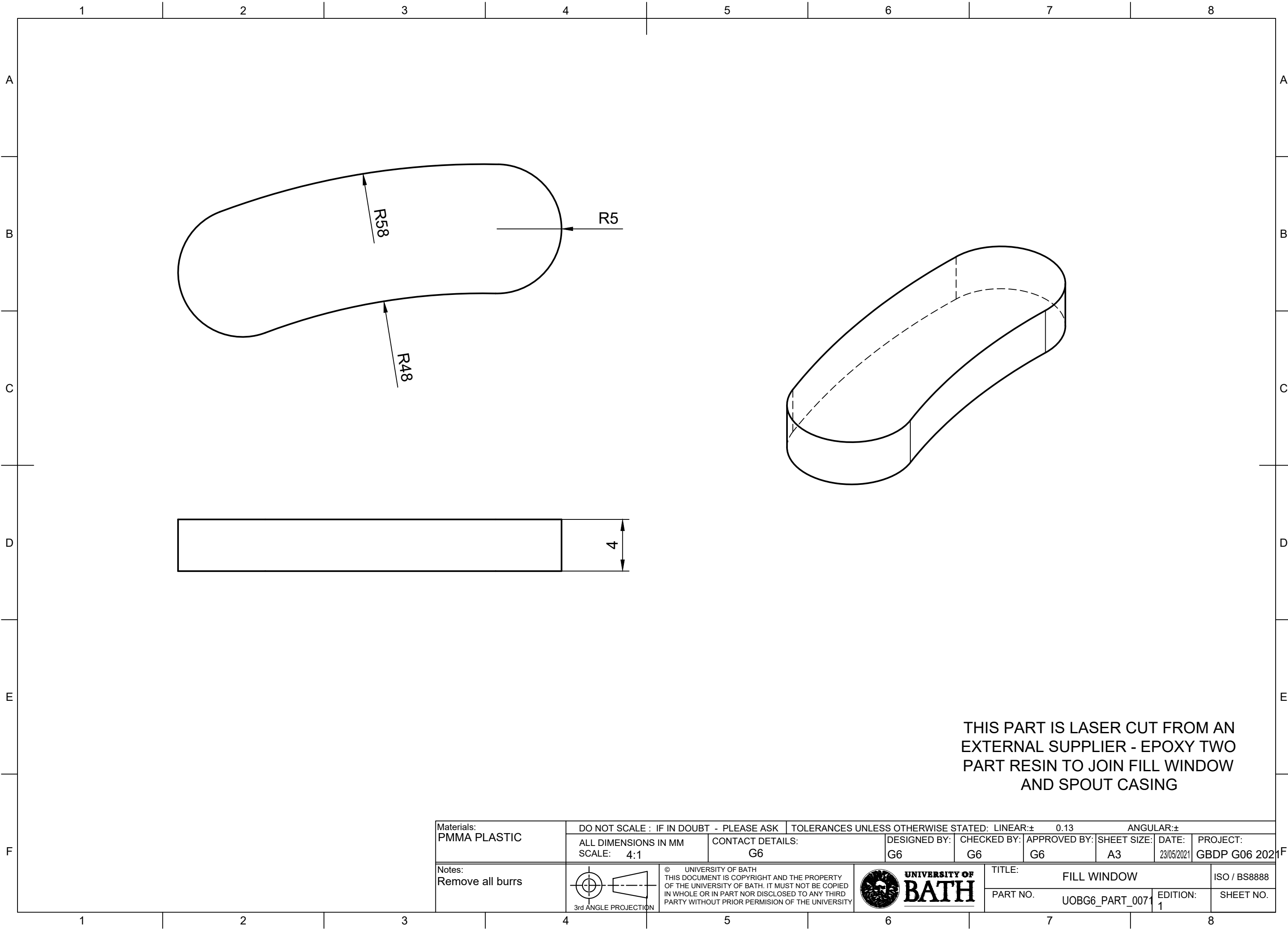
PURCHASED TORSION SPRINGS TO BE ADJUSTED TO THE ABOVE DIMENSIONS.

Materials: See parts list	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: HINGE COMPONENTS		ISO / BS8888	
			PART NO. UOBG6_SUBASM_2000		EDITION: 1	
					SHEET NO.	

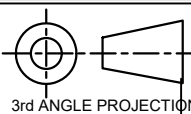



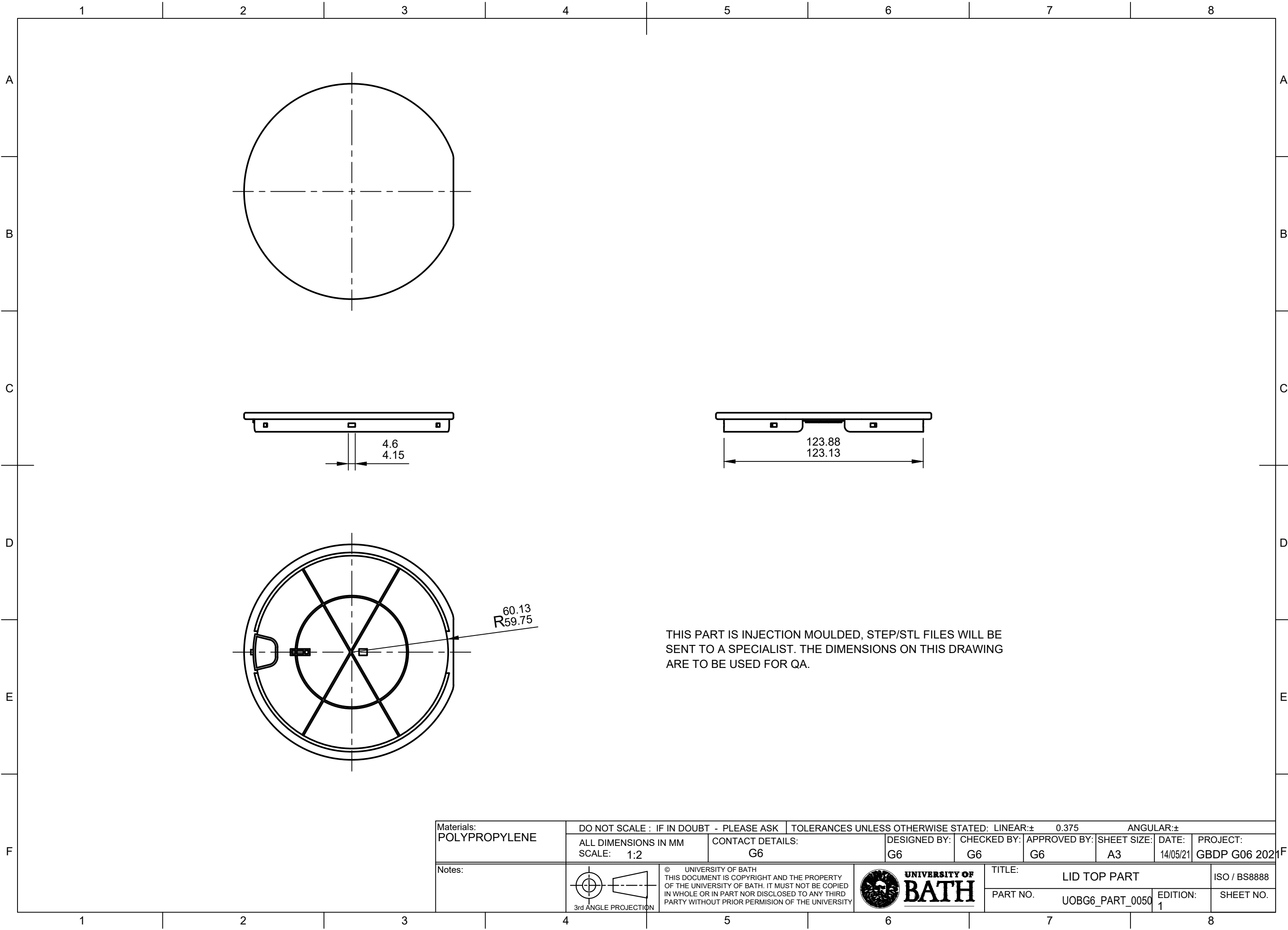
THIS PART IS INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO A SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.25 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:3	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
Notes:	 3rd ANGLE PROJECTION		 UNIVERSITY OF BATH		TITLE: SPOUT CASING ISO / BS8888	
					PART NO. UOBG6_PART_0054 EDITION: 1	SHEET NO.

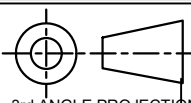



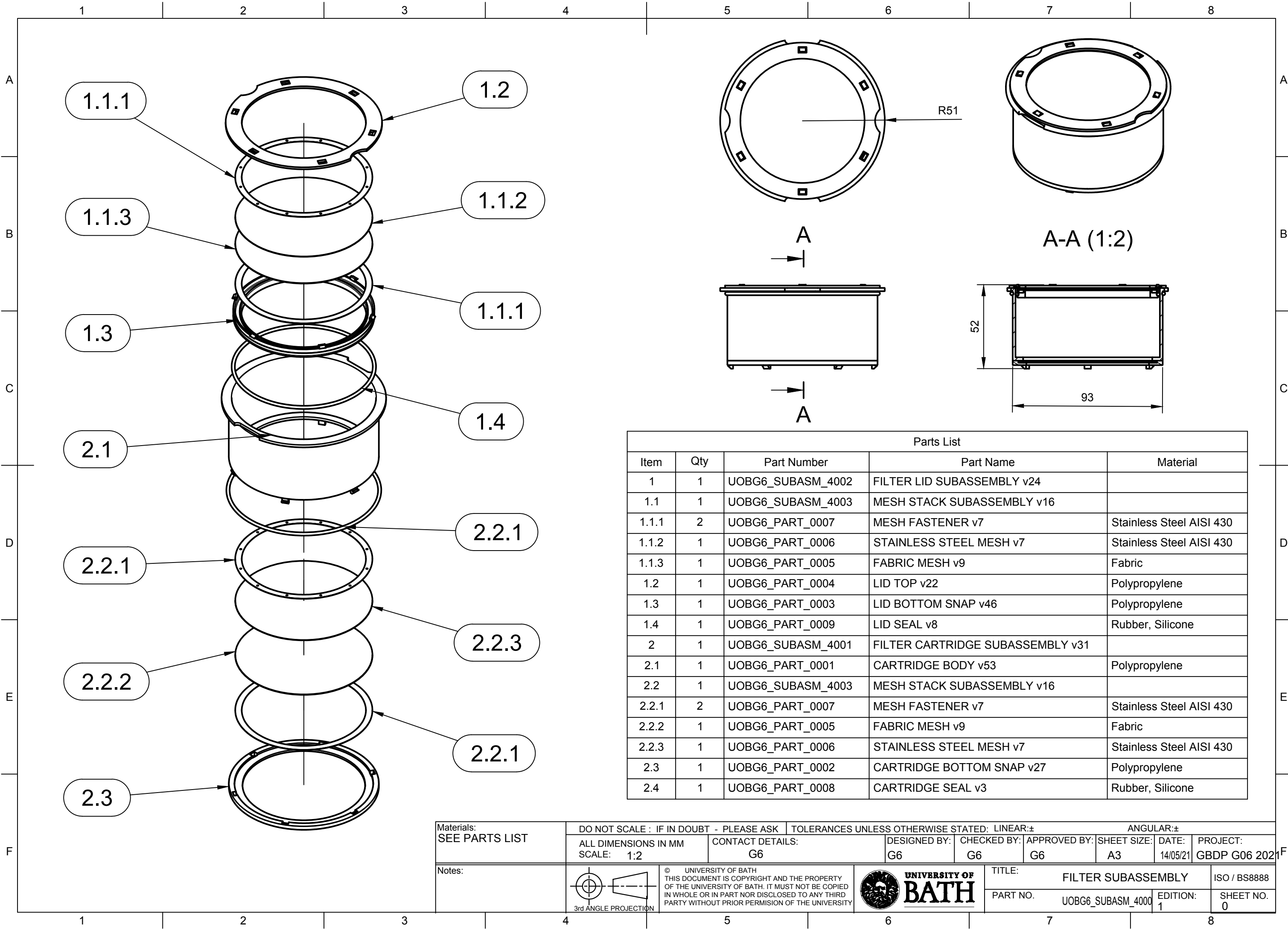
THIS PART IS LASER CUT FROM AN EXTERNAL SUPPLIER - EPOXY TWO PART RESIN TO JOIN FILL WINDOW AND SPOUT CASING

Materials: <b>PMMA PLASTIC</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.13		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 4:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
Notes: Remove all burrs	 3rd ANGLE PROJECTION		<small>© UNIVERSITY OF BATH THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF THE UNIVERSITY OF BATH. IT MUST NOT BE COPIED IN WHOLE OR IN PART NOR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR PERMISSION OF THE UNIVERSITY</small>			
			TITLE: FILL WINDOW		ISO / BS8888	
			PART NO. UOBG6_PART_007		EDITION: 1	
					PROJECT: GBDP G06 2021	
					SHEET NO.	



THIS PART IS INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO A SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

Materials: <b>POLYPROPYLENE</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: LID TOP PART		ISO / BS8888	
			PART NO. UOBG6_PART_0050		EDITION: 1	
					PROJECT: GBDP G06 2021	
					SHEET NO.	



Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_SUBASM_4002	FILTER LID SUBASSEMBLY v24	
1.1	1	UOBG6_SUBASM_4003	MESH STACK SUBASSEMBLY v16	
1.1.1	2	UOBG6_PART_0007	MESH FASTENER v7	Stainless Steel AISI 430
1.1.2	1	UOBG6_PART_0006	STAINLESS STEEL MESH v7	Stainless Steel AISI 430
1.1.3	1	UOBG6_PART_0005	FABRIC MESH v9	Fabric
1.2	1	UOBG6_PART_0004	LID TOP v22	Polypropylene
1.3	1	UOBG6_PART_0003	LID BOTTOM SNAP v46	Polypropylene
1.4	1	UOBG6_PART_0009	LID SEAL v8	Rubber, Silicone
2	1	UOBG6_SUBASM_4001	FILTER CARTRIDGE SUBASSEMBLY v31	
2.1	1	UOBG6_PART_0001	CARTRIDGE BODY v53	Polypropylene
2.2	1	UOBG6_SUBASM_4003	MESH STACK SUBASSEMBLY v16	
2.2.1	2	UOBG6_PART_0007	MESH FASTENER v7	Stainless Steel AISI 430
2.2.2	1	UOBG6_PART_0005	FABRIC MESH v9	Fabric
2.2.3	1	UOBG6_PART_0006	STAINLESS STEEL MESH v7	Stainless Steel AISI 430
2.3	1	UOBG6_PART_0002	CARTRIDGE BOTTOM SNAP v27	Polypropylene
2.4	1	UOBG6_PART_0008	CARTRIDGE SEAL v3	Rubber, Silicone

Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±			ANGULAR:±		
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3	DATE: 14/05/21	PROJECT: GBDP G06 2021
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				PART NO. UOBG6_SUBASM_4000		EDITION: 1		SHEET NO. 0



1 2 3 4 5 6 7 8

A

B

C

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A

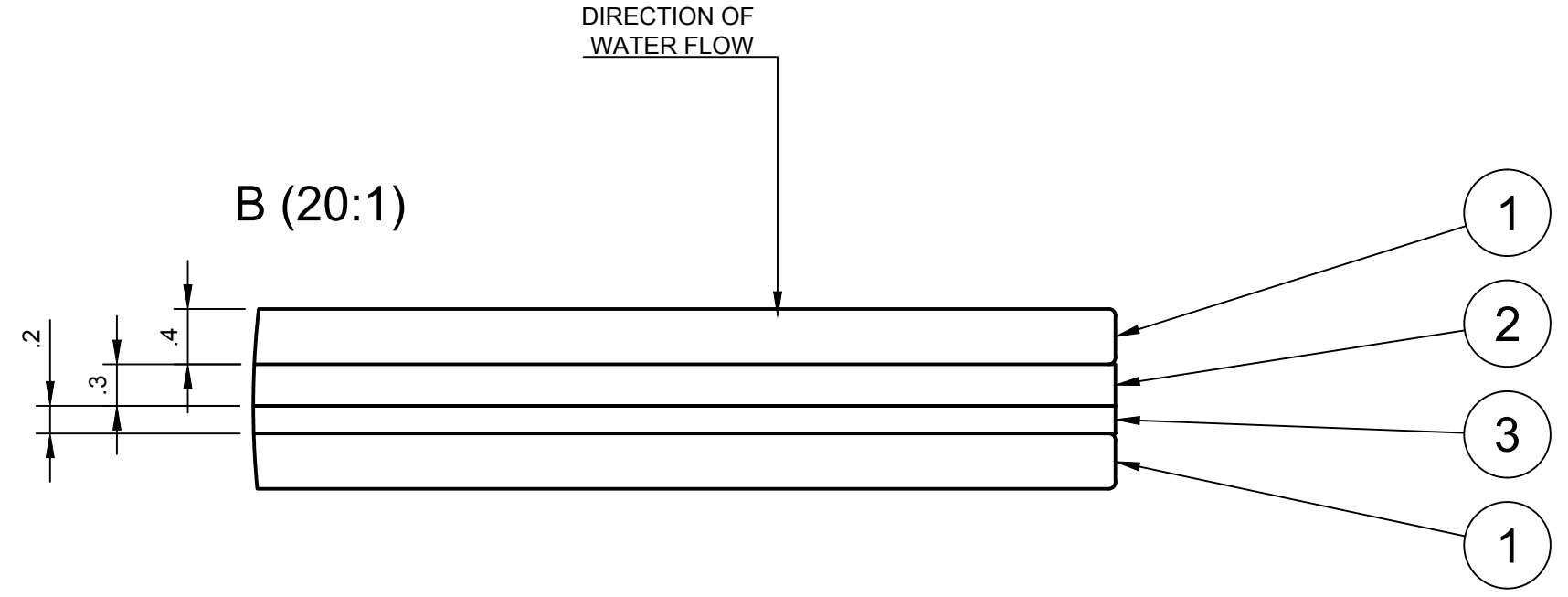
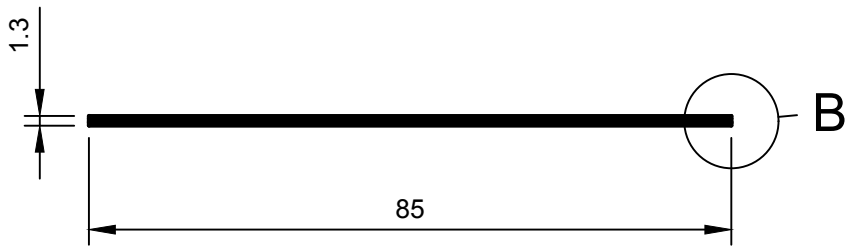
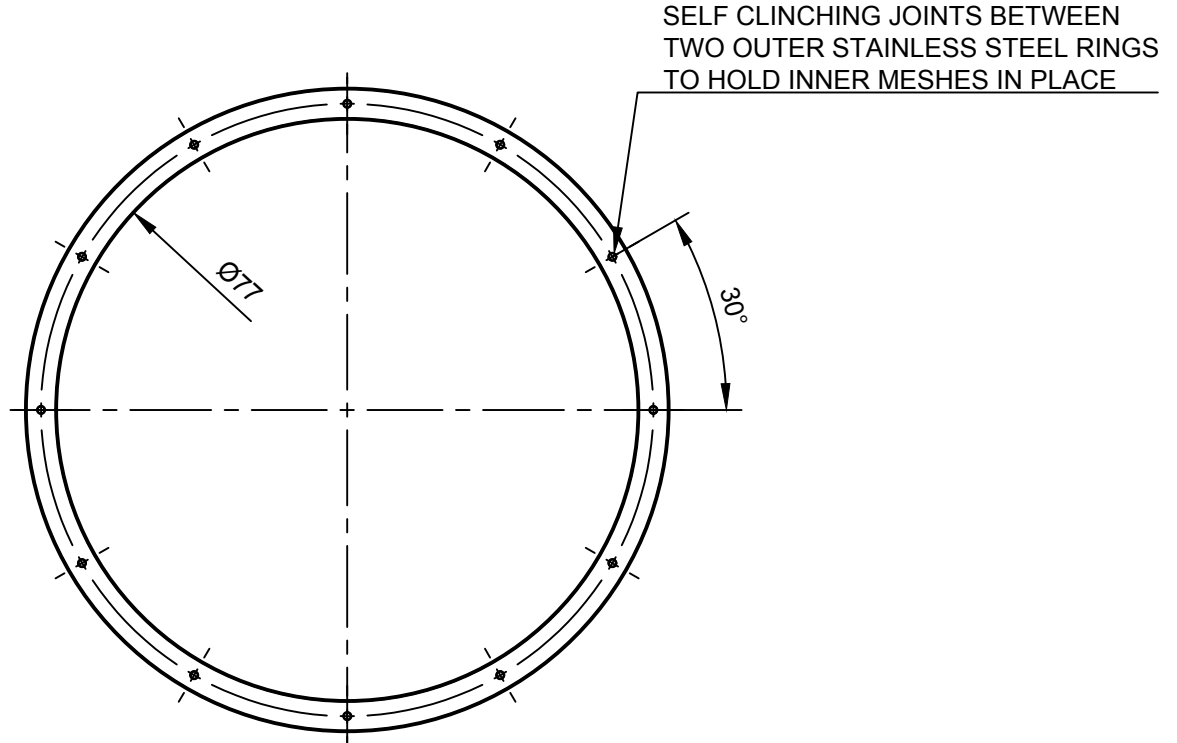
B

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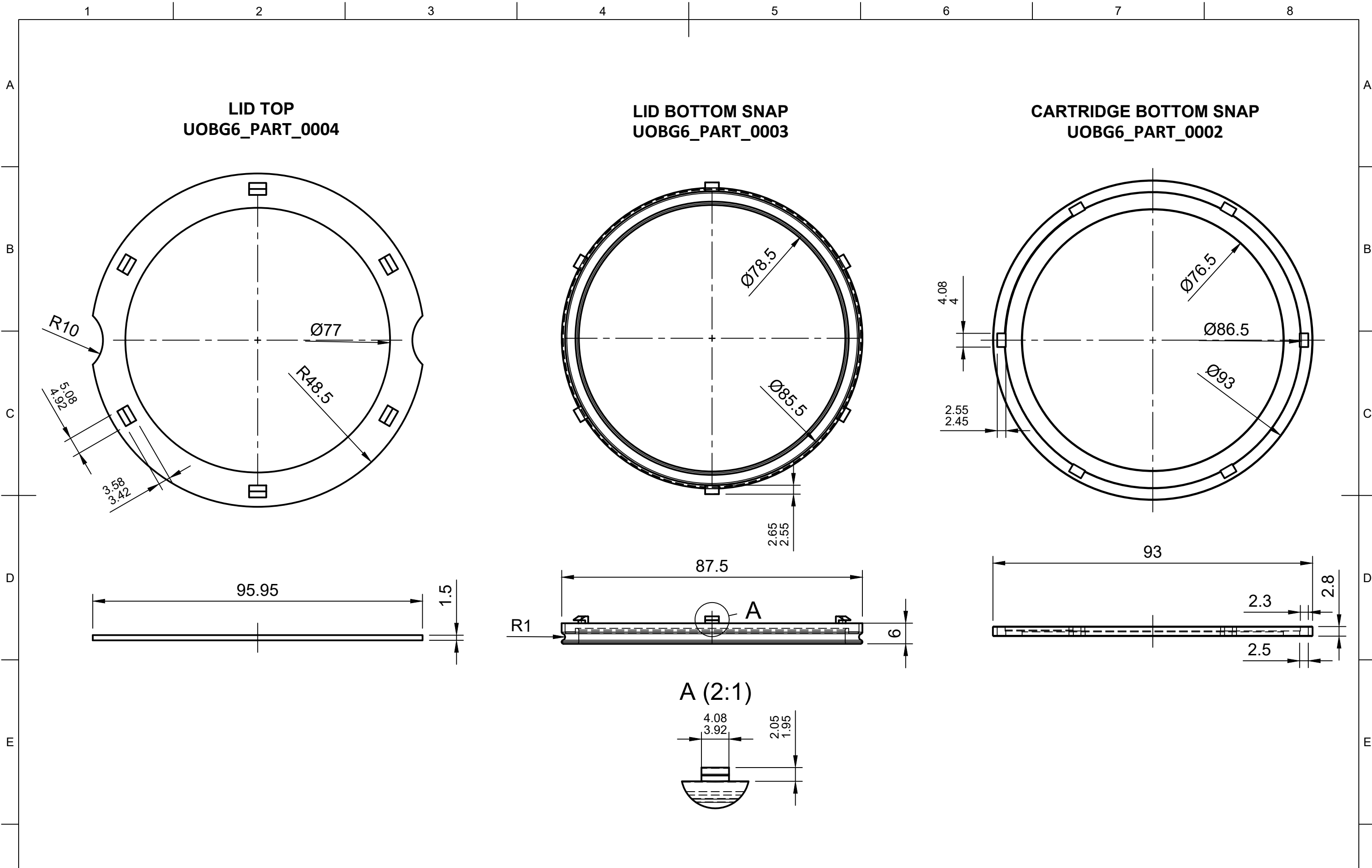


Parts List				
Item	Qty	Part Number	Part Name	Material
1	2	UOBG6_PART_0007	MESH FASTENER v7	Stainless Steel AISI 430
2	1	UOBG6_PART_0005	FABRIC MESH v9	Fabric
3	1	UOBG6_PART_0006	STAINLESS STEEL MESH v7	Stainless Steel AISI 430

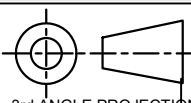

ALL LAYERS ARE STAMPED OUT FROM SHEETS WITH EQUAL OUTER DIAMETER.

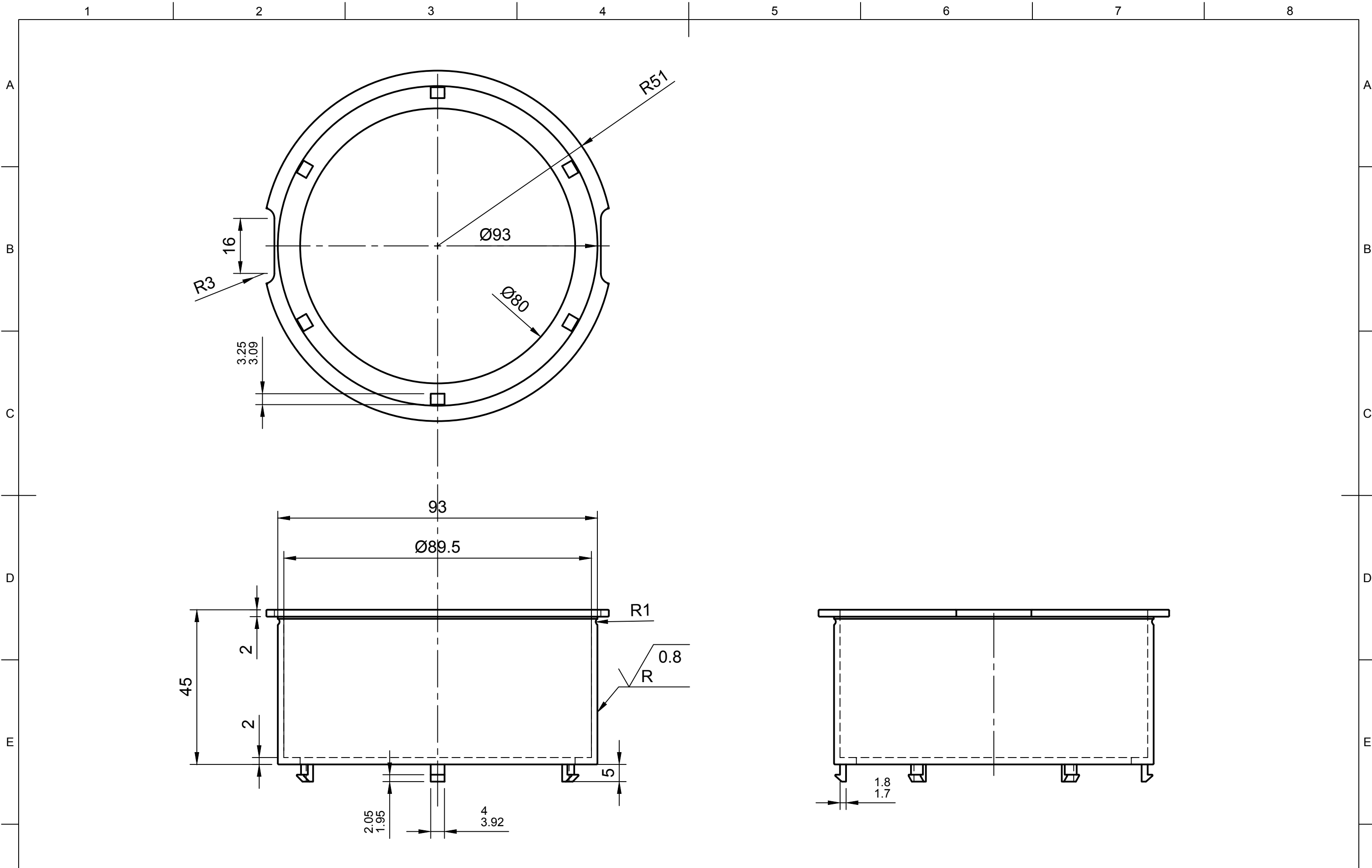
Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.05mm		ANGULAR:± 2 degrees	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	3rd ANGLE PROJECTION		PART NO. UOBG6_SUBASM_4003		EDITION: 1	
				DATE: 14/05/21		PROJECT: GBDP G06 2021
						SHEET NO.

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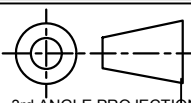



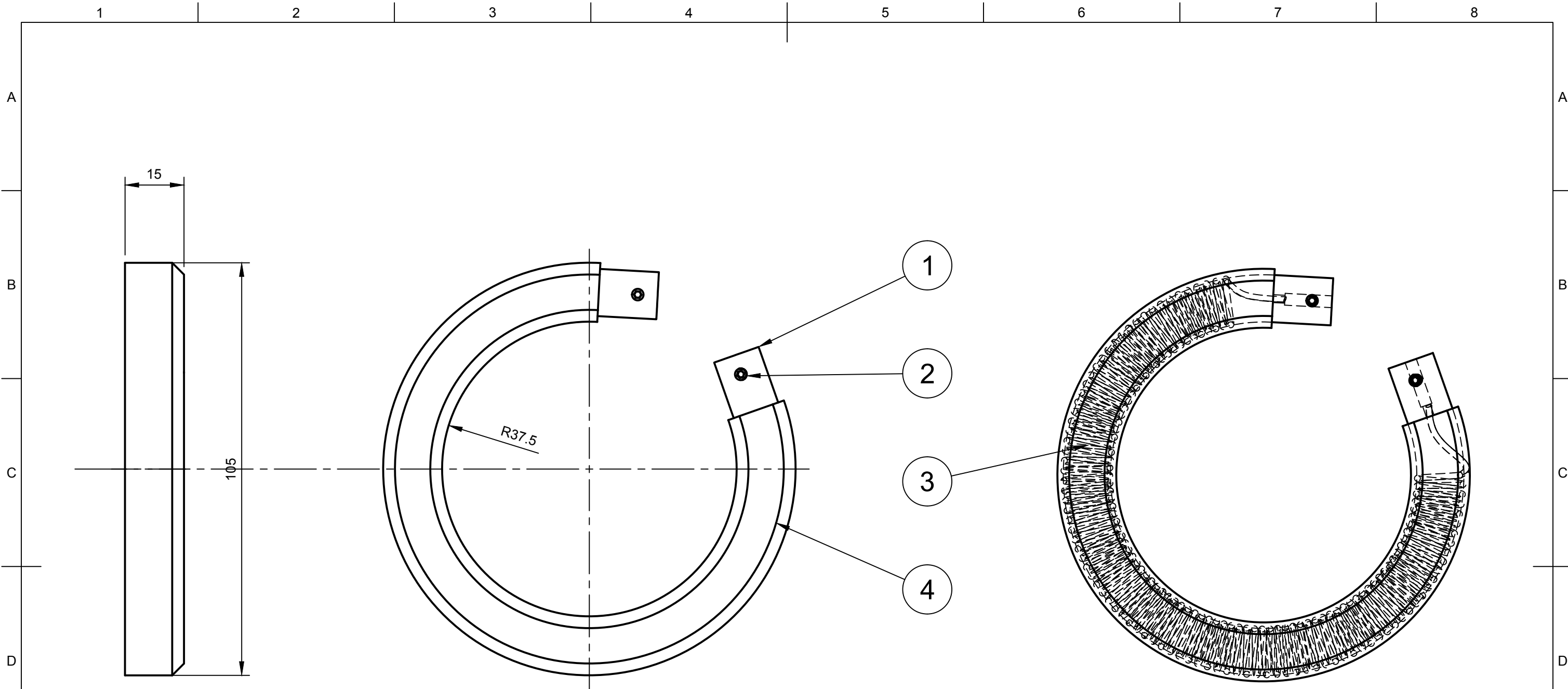
THESE PARTS ARE INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO A SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

Materials: <b>POLYPROPYLENE</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: FILTER COMPONENTS		ISO / BS8888	
			PART NO. SEE INDIVIDUAL PARTS		EDITION: 1	
					SHEET NO.	

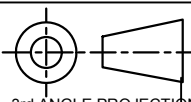



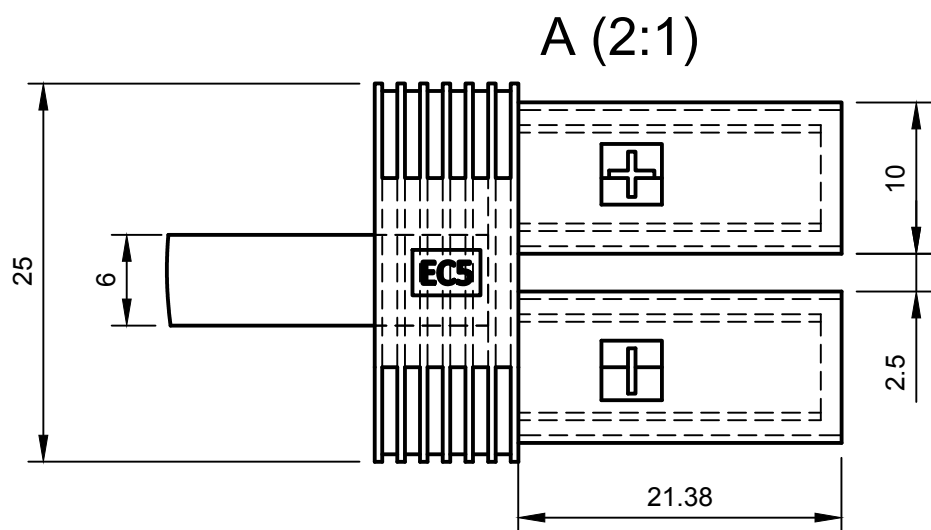
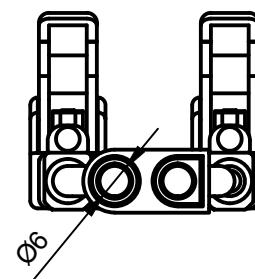
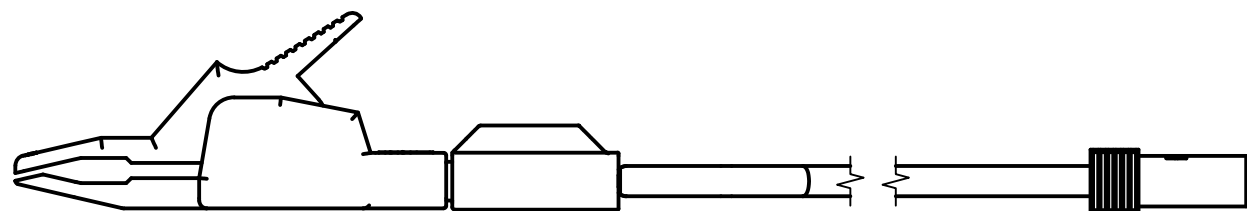
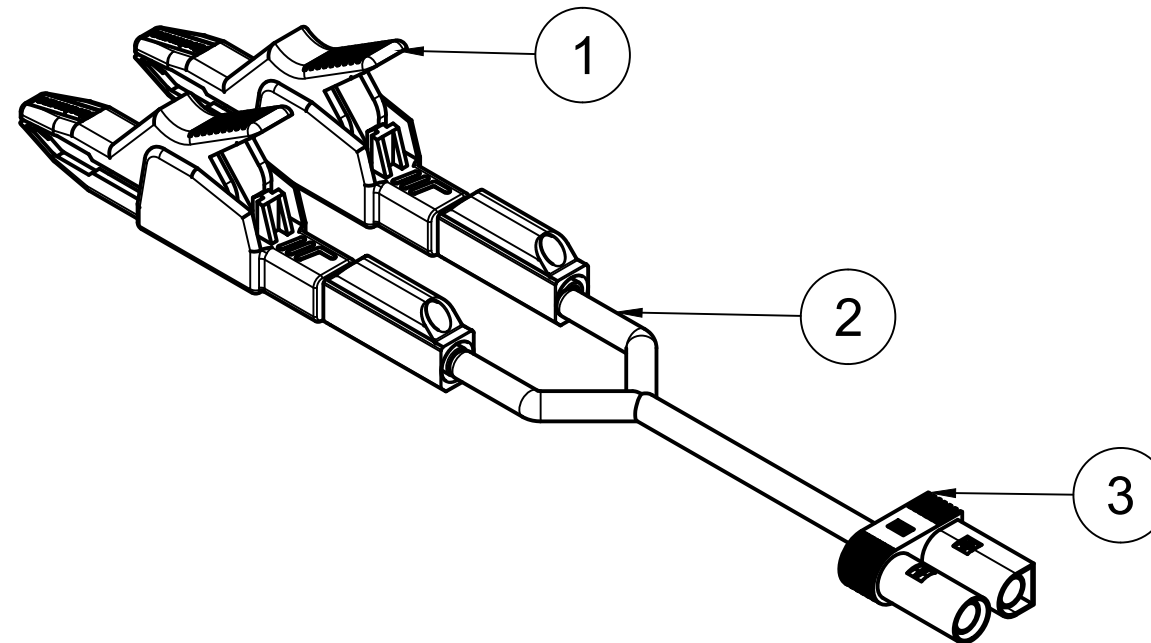
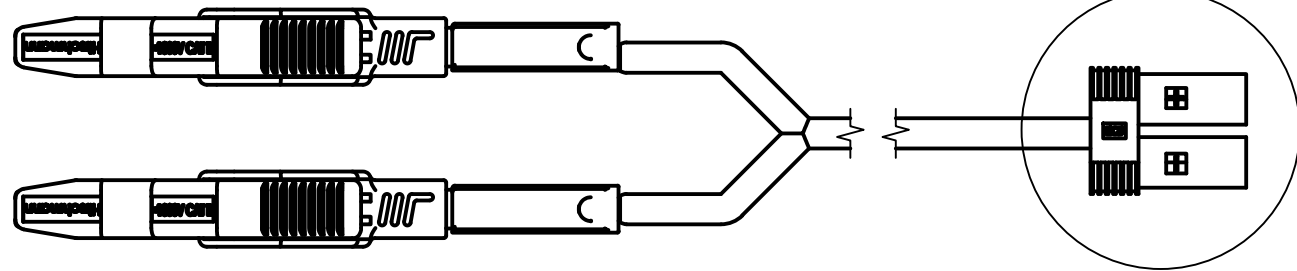
THIS PART IS INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO A SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

Materials: <b>POLYPROPYLENE</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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						DATE: 14/05/21 PROJECT: GBDP G06 2021



Parts List				
Item	Qty	Part Number	Part Name	Material
1	2	UOBG6_PART_0031	HEATING ELEMENT CAP v9	ABS Plastic
2	2	UOBG6_PART_0033	M3 x 6 GRUB SCREW v3	Stainless Steel 316L
3	1	UOBG6_PART_0032	HEATING ELEMENT COIL v6	Nichrome 80/20
4	1	UOBG6_PART_0030	HEATING ELEMENT COVER v5	Stainless Steel AISI 304

Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 1 MM		ANGULAR:± 1 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	TITLE: HEATING ELEMENT SUBASSEMBLY			ISO / BS8888		PROJECT: GBDP G06 2021
PART NO. UOBG6_SUBASM_5000			EDITION: 1		SHEET NO.	

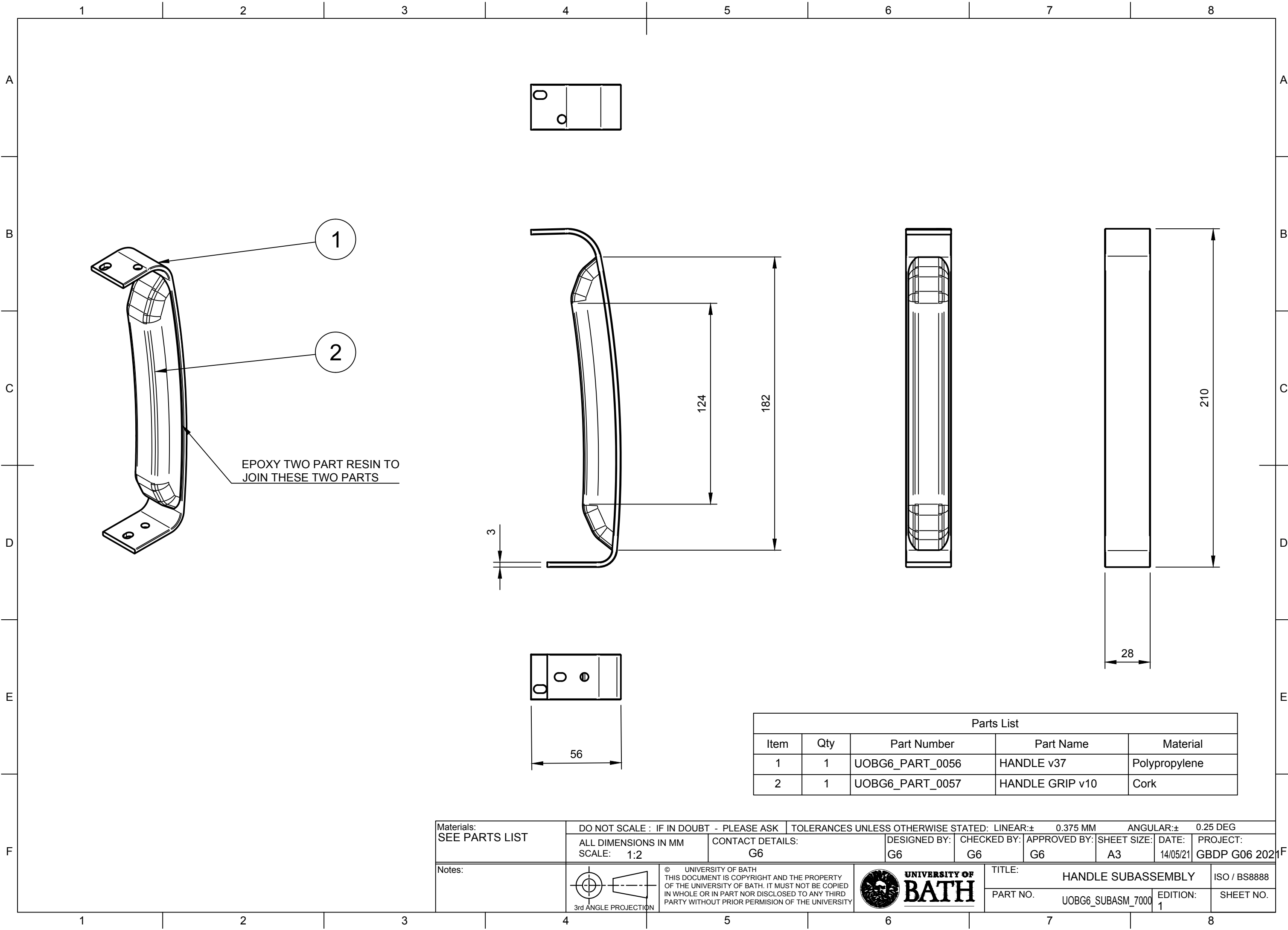


THIS IS A SPECIFICATION FOR THE POWER CABLE ASSEMBLY. THE CROCODILE CLIP CONNECTORS CAN BE REPLACED WITH ANY DC CONNECTOR RATED FOR MAXIMUM POWER RATING OF 300W AT 12V.

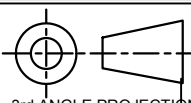

CABLE LENGTH SHORTENED FOR CLARITY

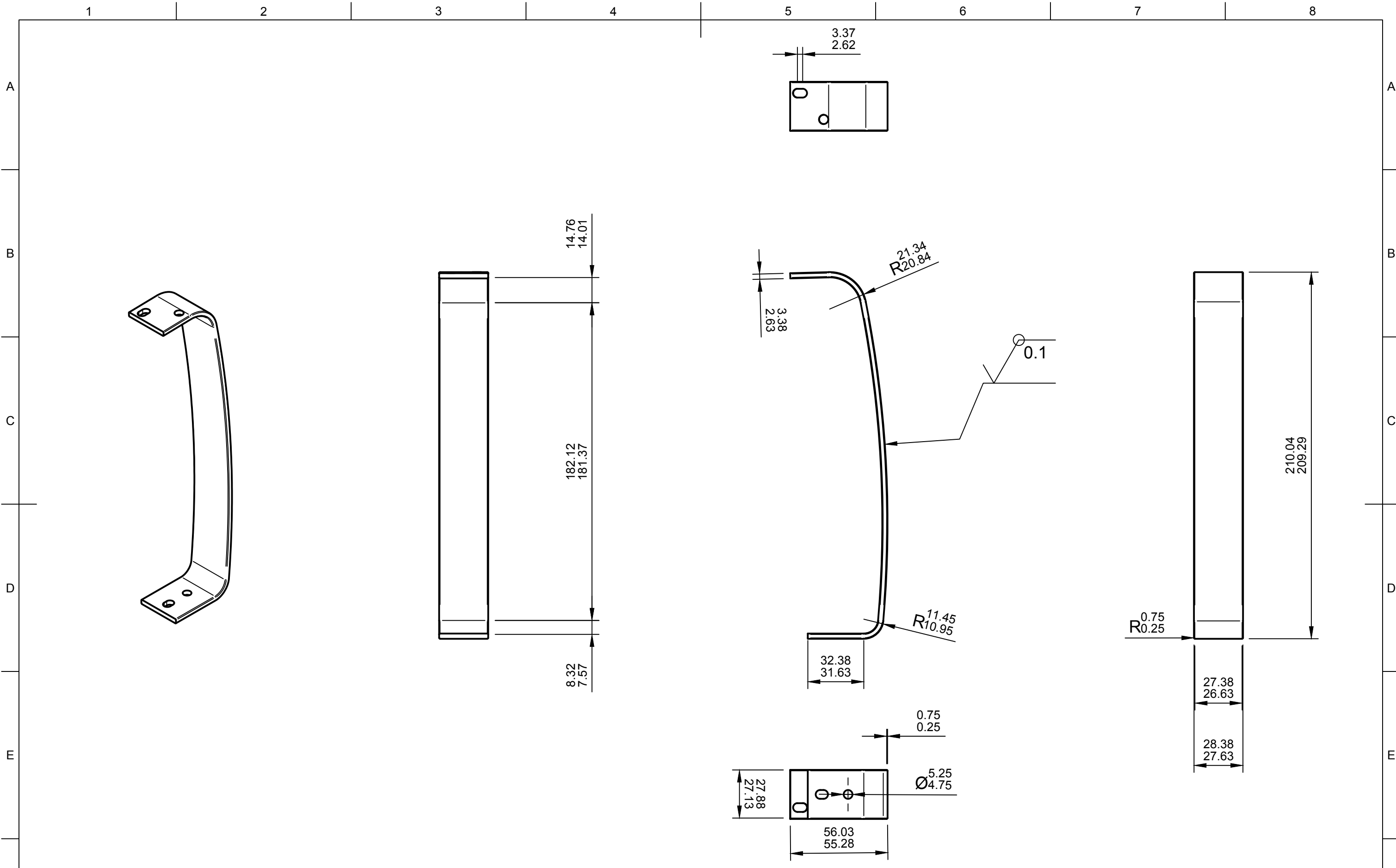
Parts List				
Item	Qty	Part Number	Part Name	Description
1	2	UOBG6_PART_0073	CROCODILE CLIP v4	Heavy duty clips
2	1	UOBG6_PART_0075	POWER CONNECTOR CABLE v9	6mm power cable
3	1	UOBG6_PART_0075	POWER CONNECTOR PLUG v11	RS PRO Stock No: 180-5398 or equivalent 2P, 40A connector socket

Materials: N/A - ALL PARTS ARE EXTERNALLY SOURCED	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±		ANGULAR:±	
	ALL DIMENSIONS IN MM SCALE: 1:1	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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	3rd ANGLE PROJECTION		PART NO. UOBG6_SUBASM_6000		EDITION: 1	
				PROJECT: GBDP G06 2021		ISO / BS8888
				SHEET NO.		

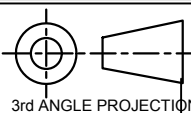



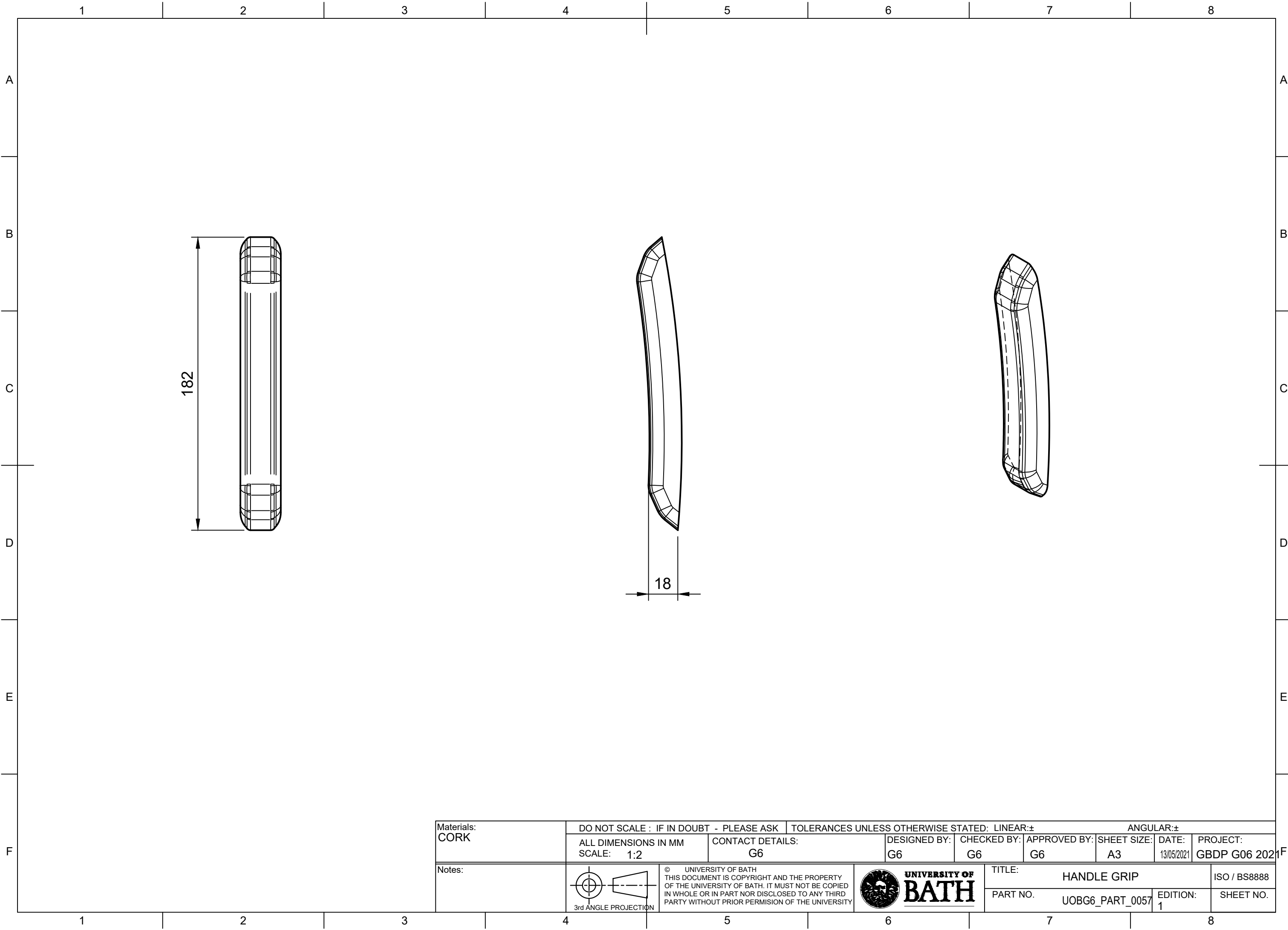
Parts List				
Item	Qty	Part Number	Part Name	Material
1	1	UOBG6_PART_0056	HANDLE v37	Polypropylene
2	1	UOBG6_PART_0057	HANDLE GRIP v10	Cork

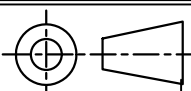

Materials: SEE PARTS LIST	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.25 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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				PART NO. UOBG6_SUBASM_7000	EDITION: 1	SHEET NO.



THIS PART IS INJECTION MOULDED, STEP/STL FILES WILL BE SENT TO A SPECIALIST. THE DIMENSIONS ON THIS DRAWING ARE TO BE USED FOR QA.

Materials: <b>POLYPROPYLENE</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:± 0.375 MM		ANGULAR:± 0.25 DEG	
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: G6	DESIGNED BY: G6	CHECKED BY: G6	APPROVED BY: G6	SHEET SIZE: A3
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			TITLE: HANDLE		ISO / BS8888	
			PART NO. UOBG6_PART_0056		EDITION: 1	
					SHEET NO.	



Materials: <b>CORK</b>	DO NOT SCALE : IF IN DOUBT - PLEASE ASK		TOLERANCES UNLESS OTHERWISE STATED: LINEAR:±				ANGULAR:±		
	ALL DIMENSIONS IN MM SCALE: 1:2	CONTACT DETAILS: <b>G6</b>	DESIGNED BY: <b>G6</b>	CHECKED BY: <b>G6</b>	APPROVED BY: <b>G6</b>	SHEET SIZE: <b>A3</b>	DATE: <b>13/05/2021</b>	PROJECT: <b>GBDP G06 2021</b>	
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					PART NO. <b>UOBG6_PART_0057</b>	EDITION: <b>1</b>	SHEET NO.		