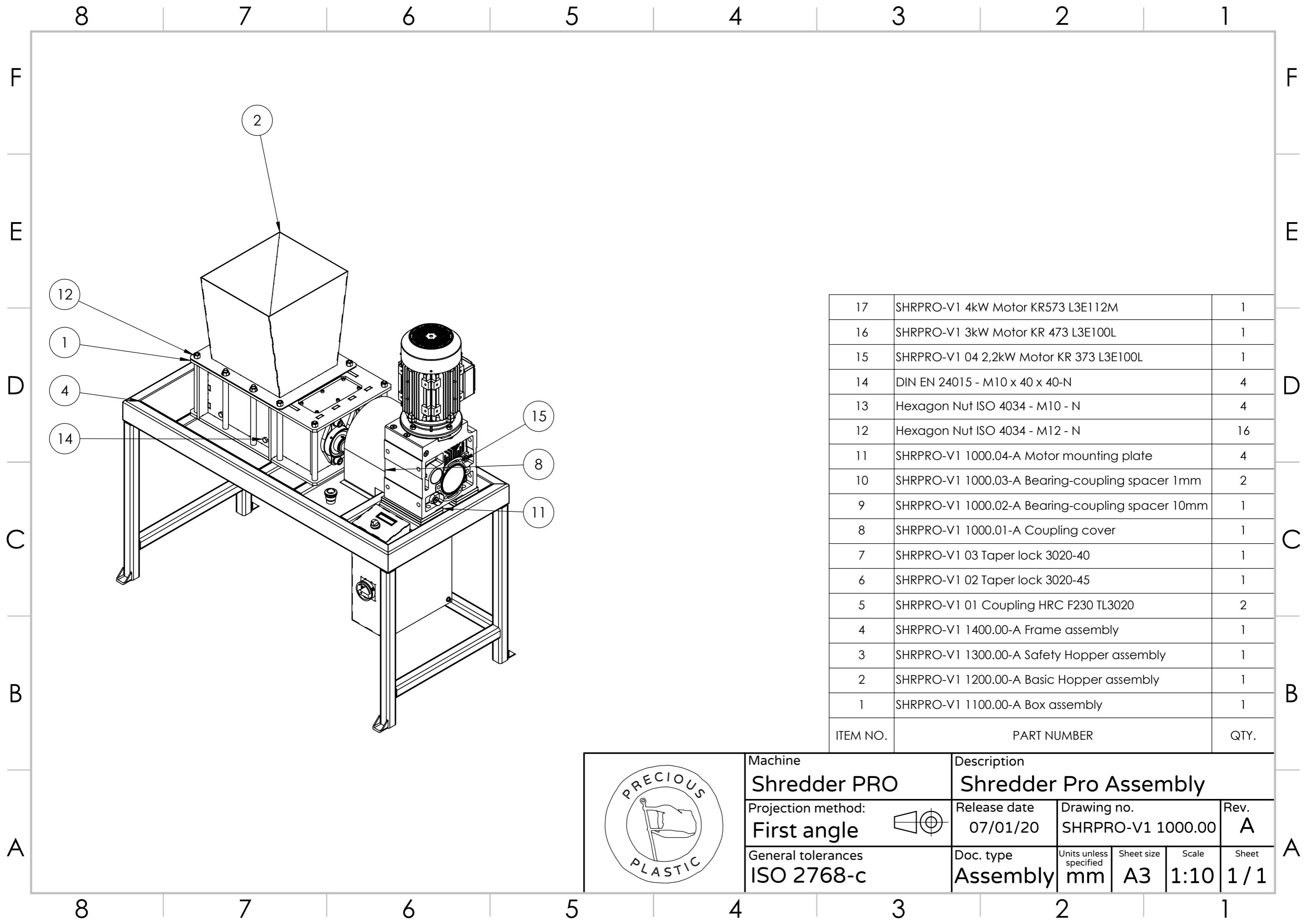


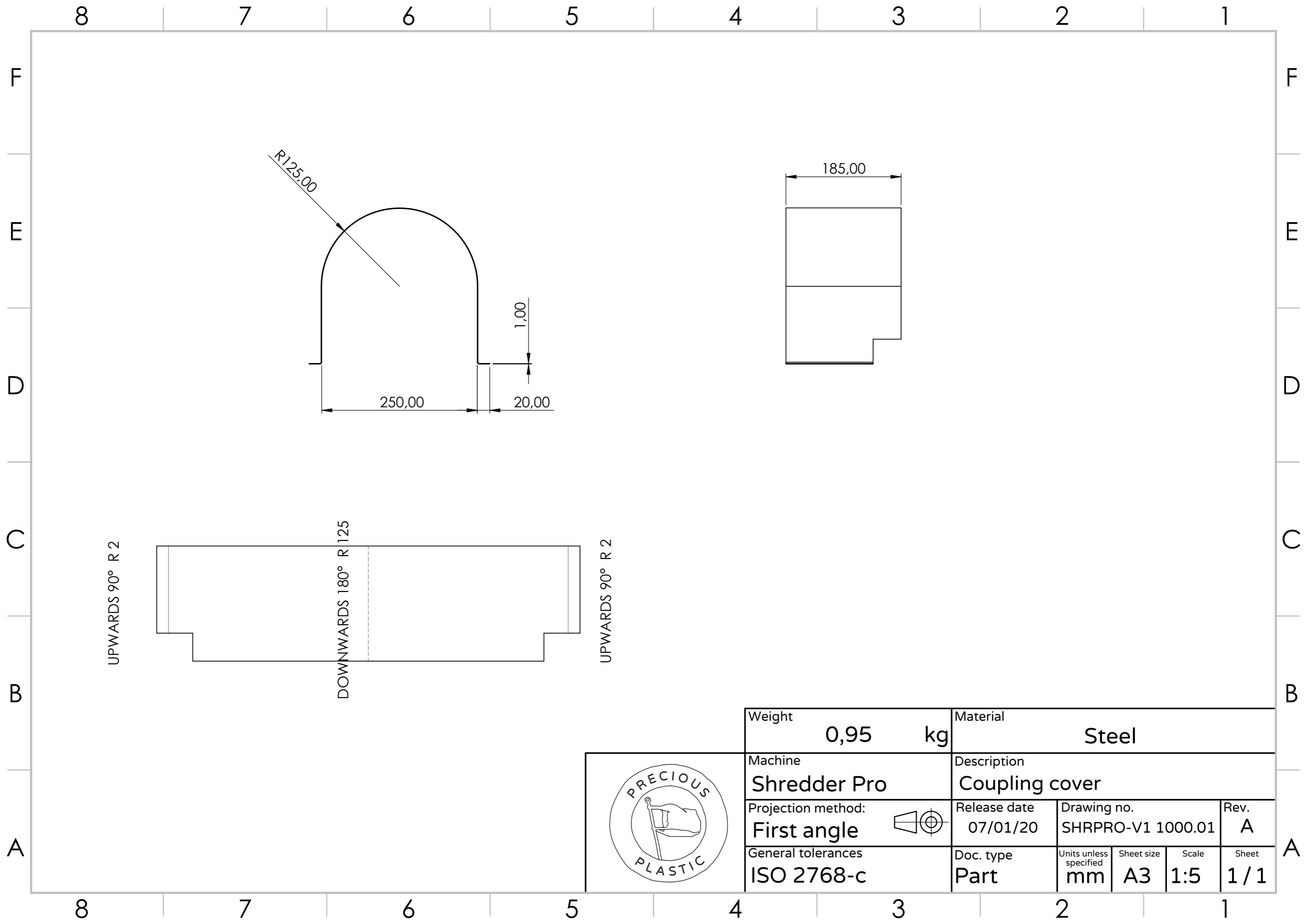
SHREDDER PRO

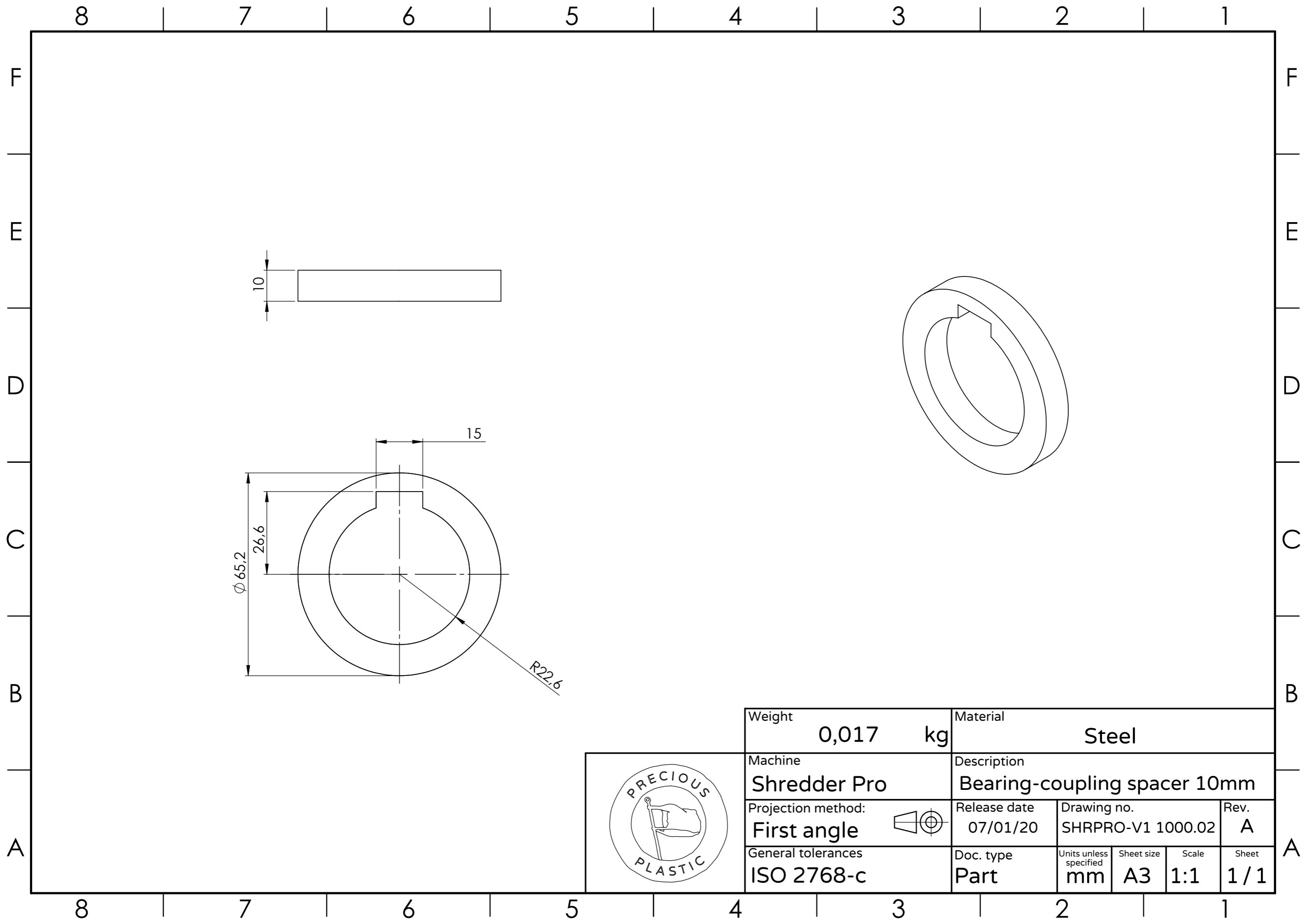


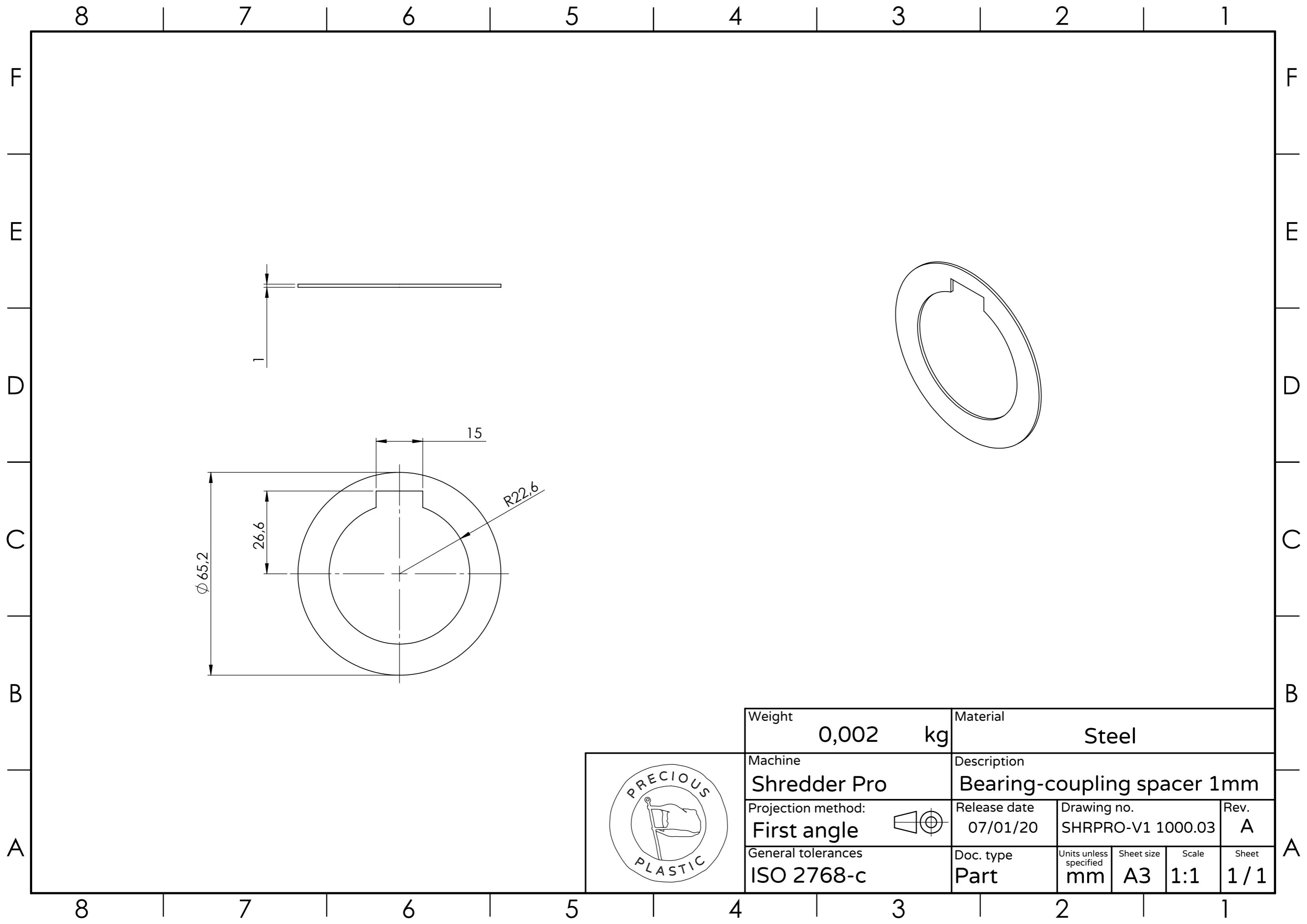
Watch the instruction video
to build this machine on

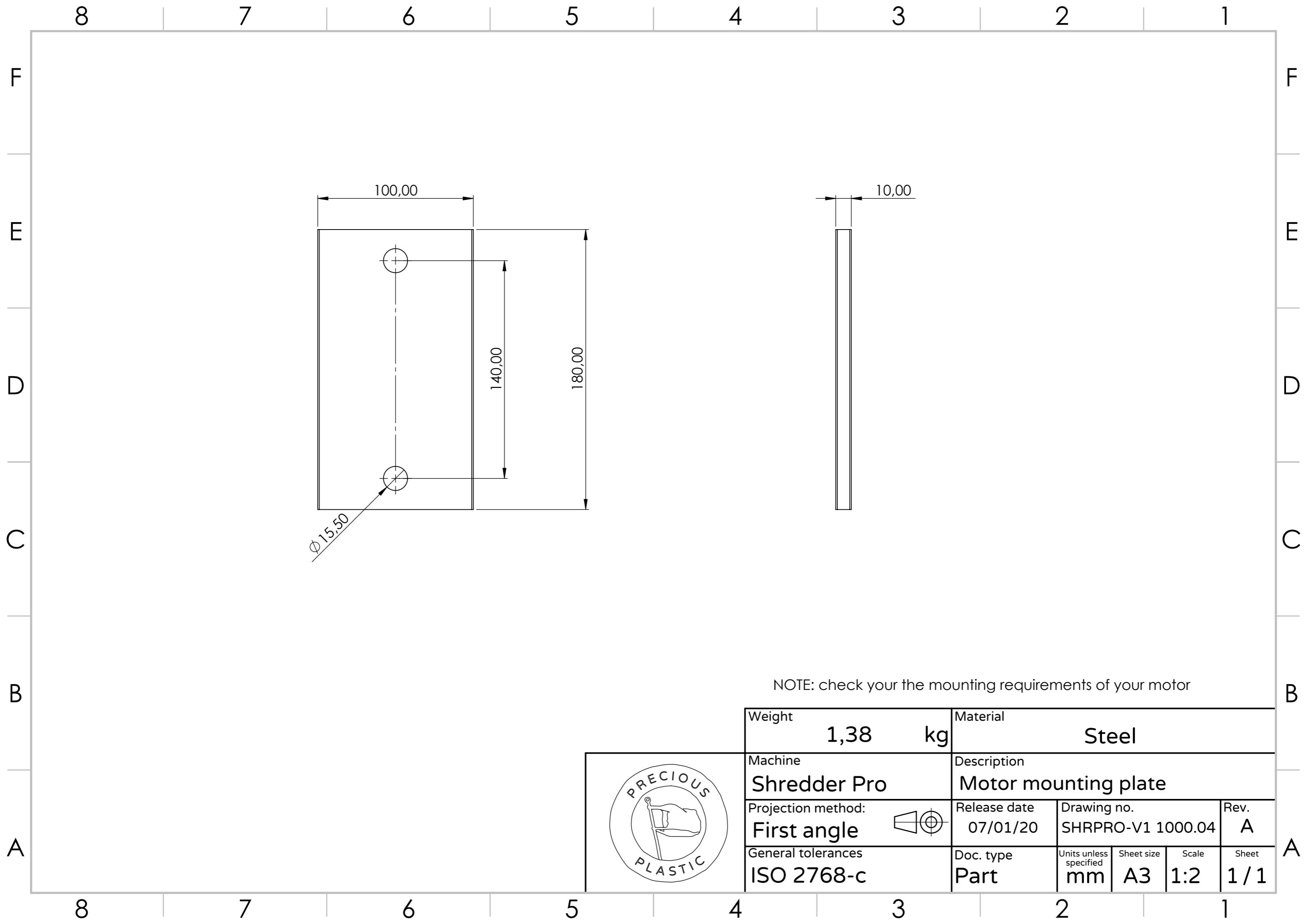
 www.preciousplastic.com

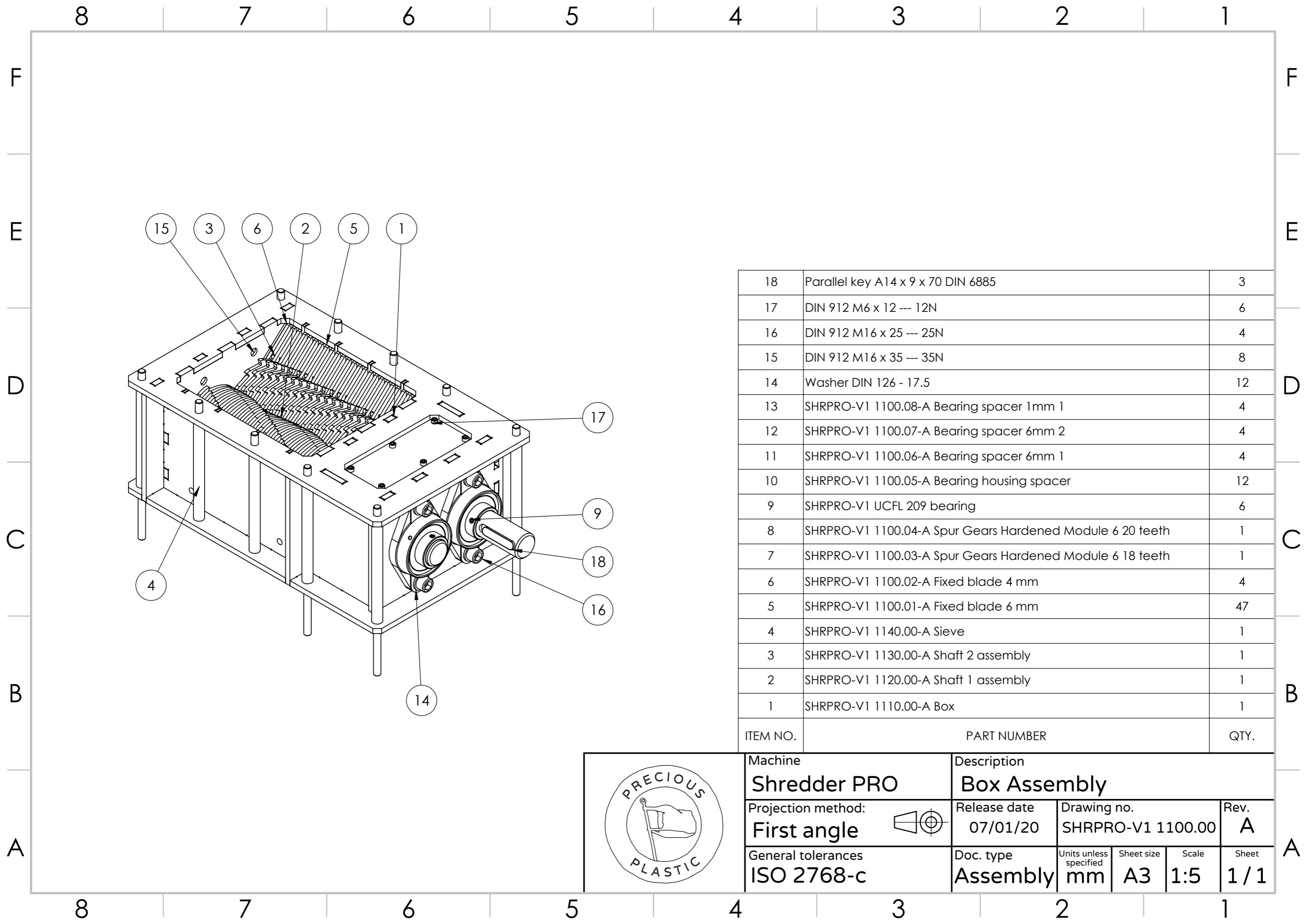


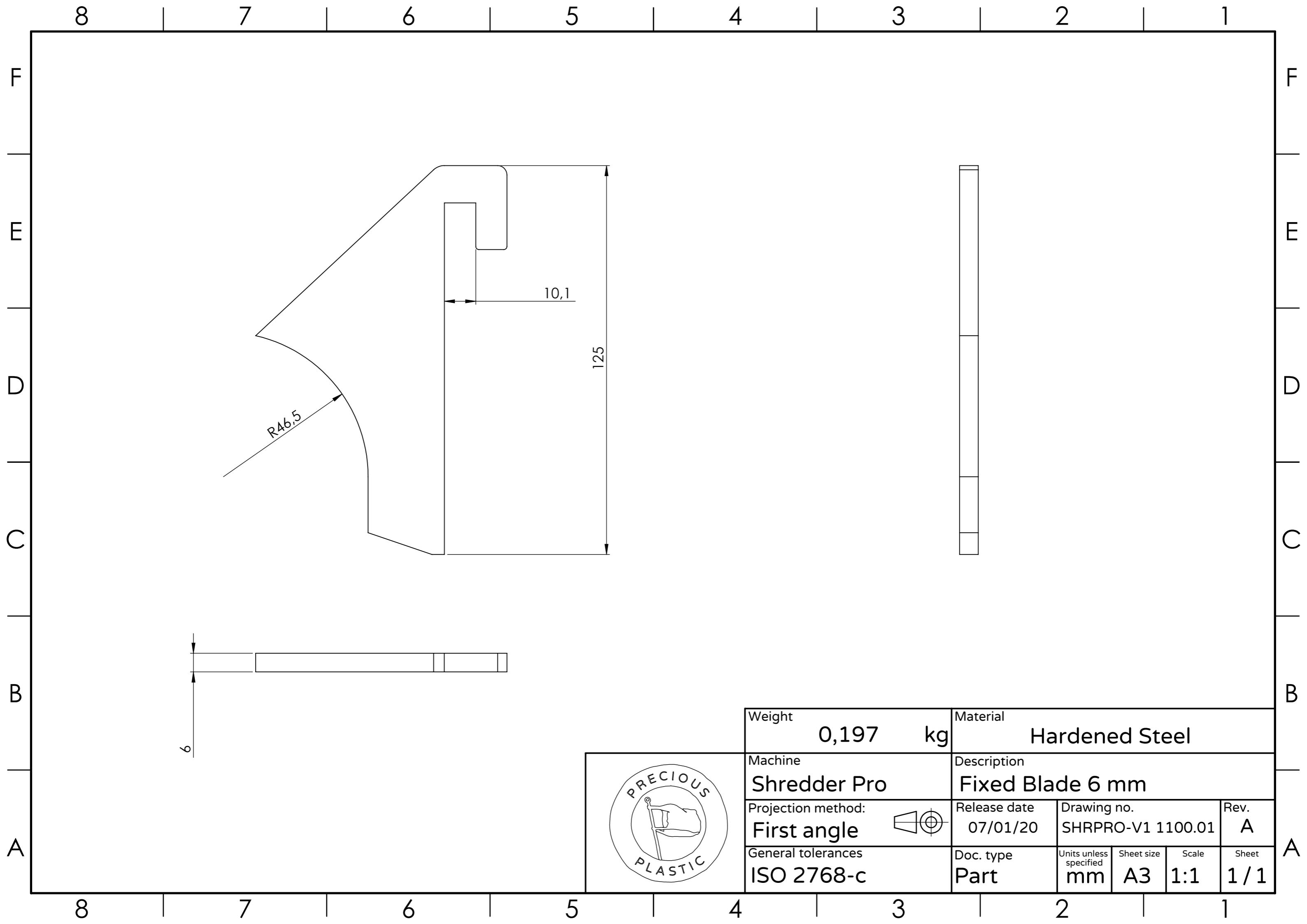


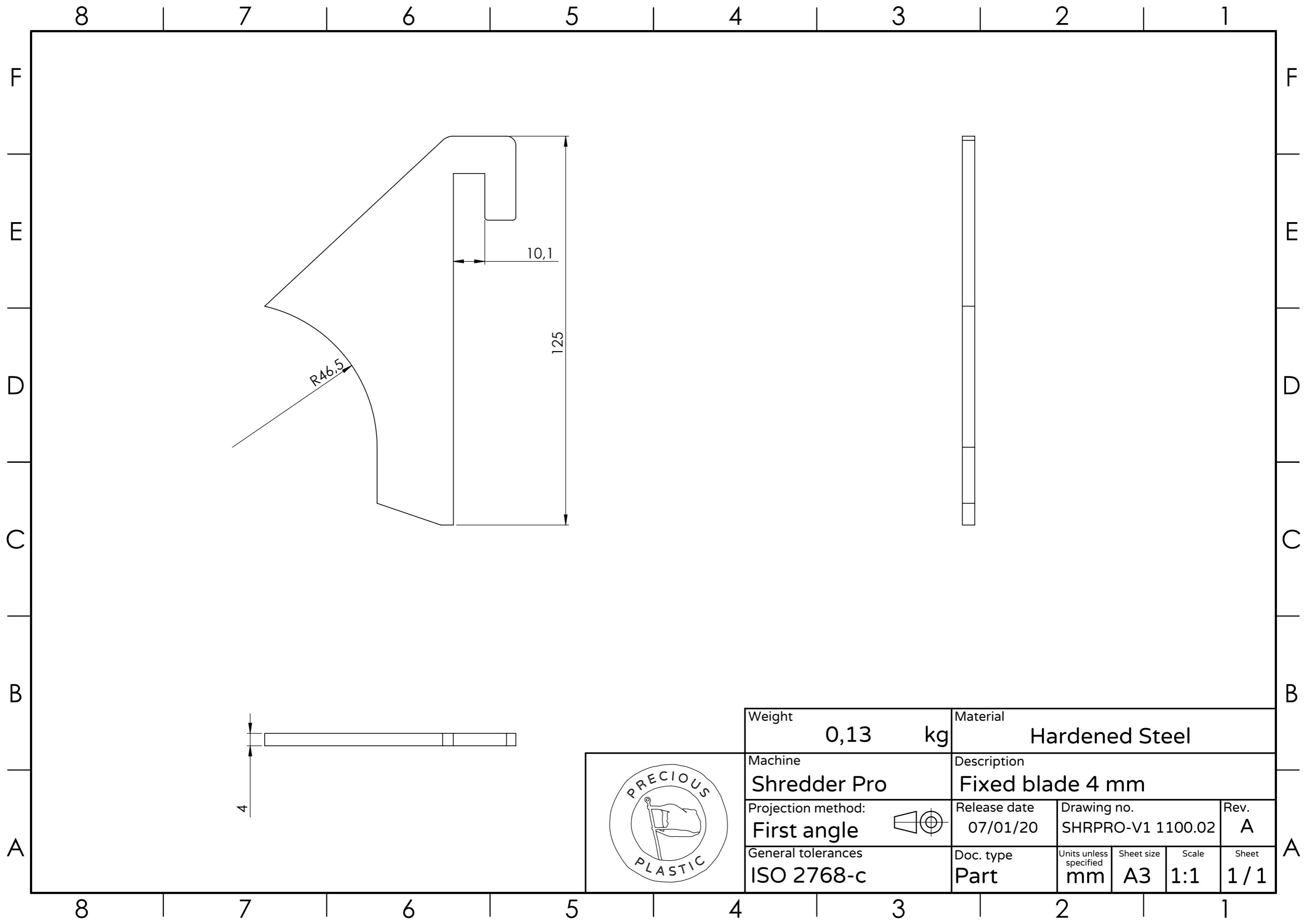


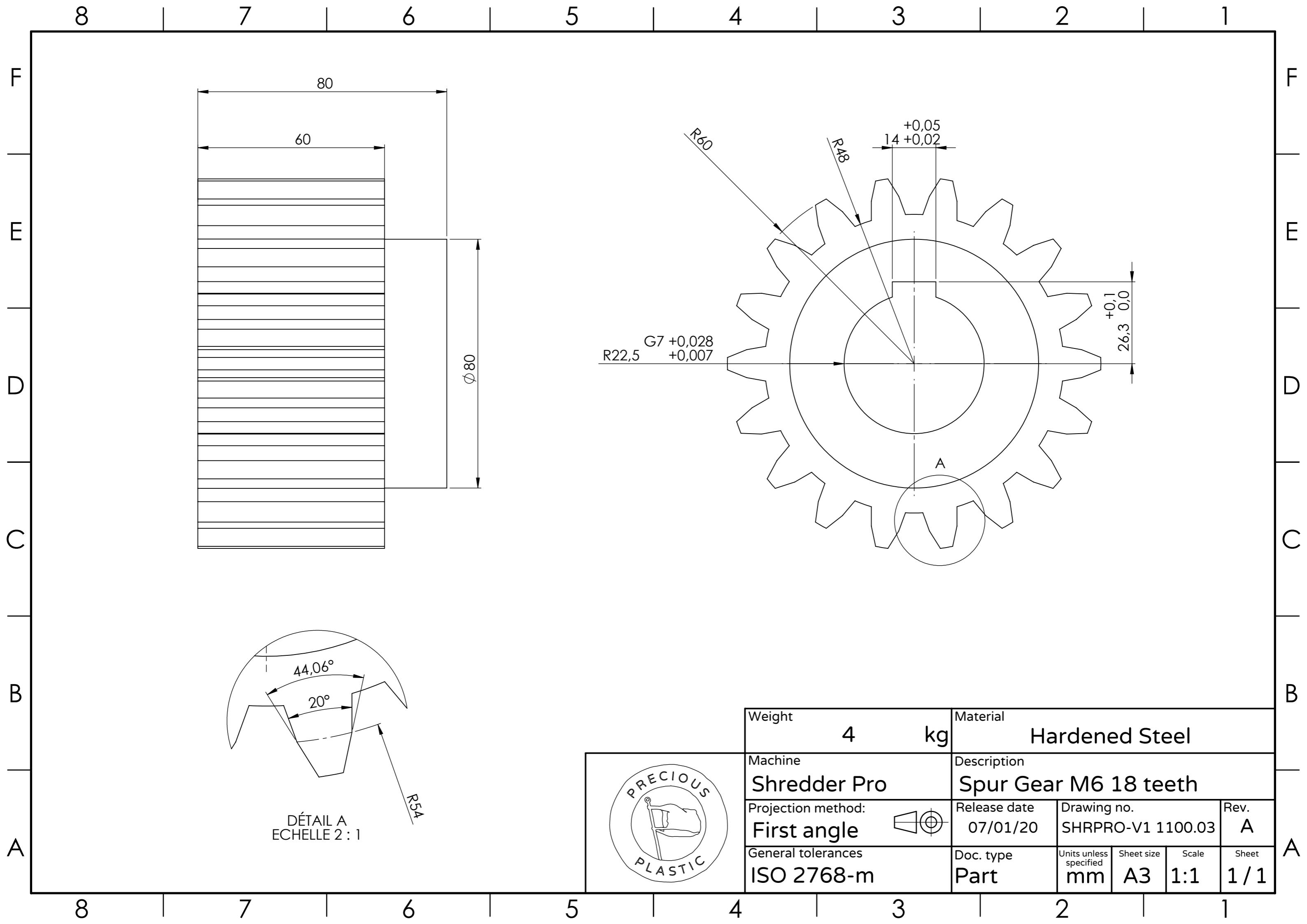


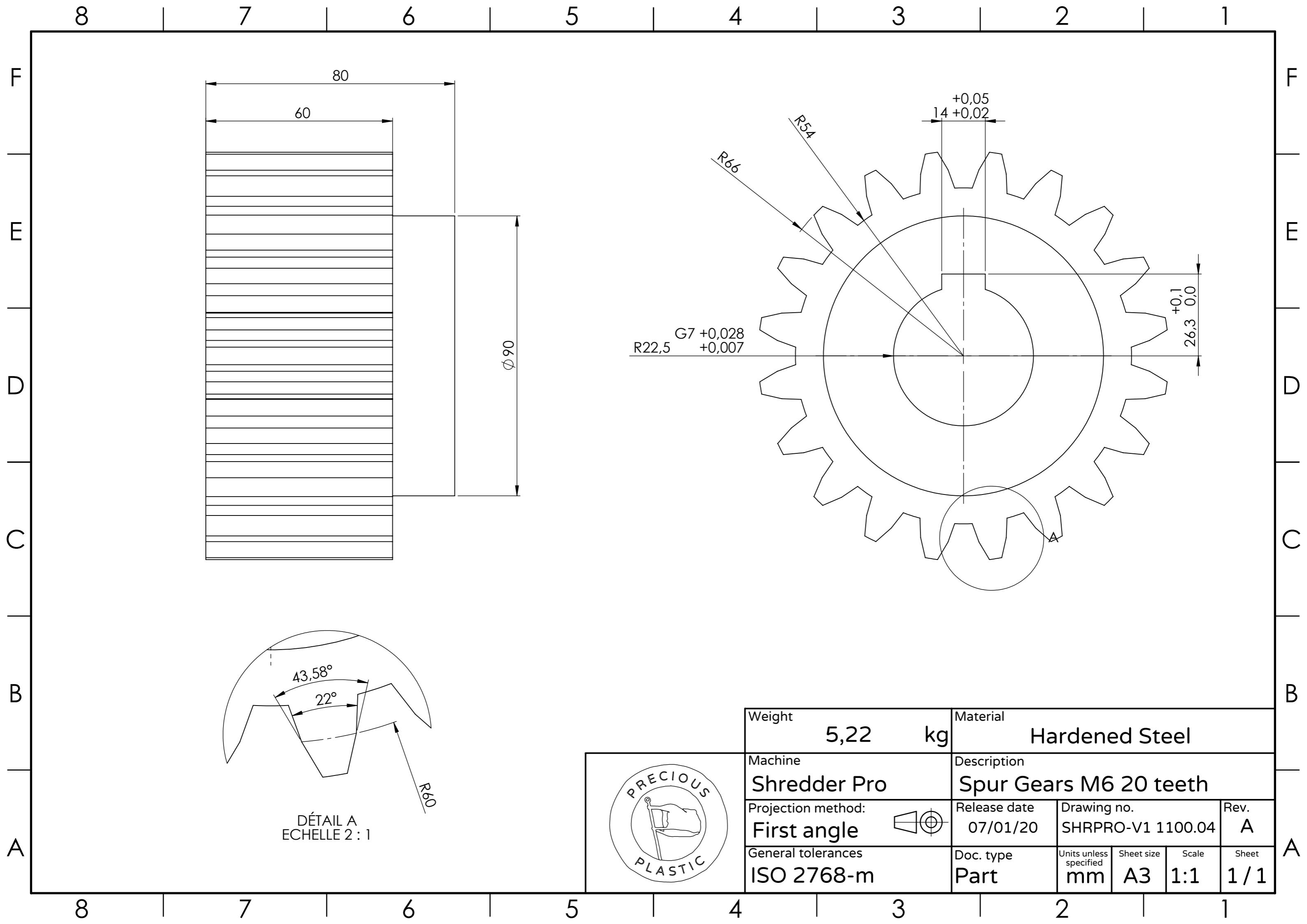


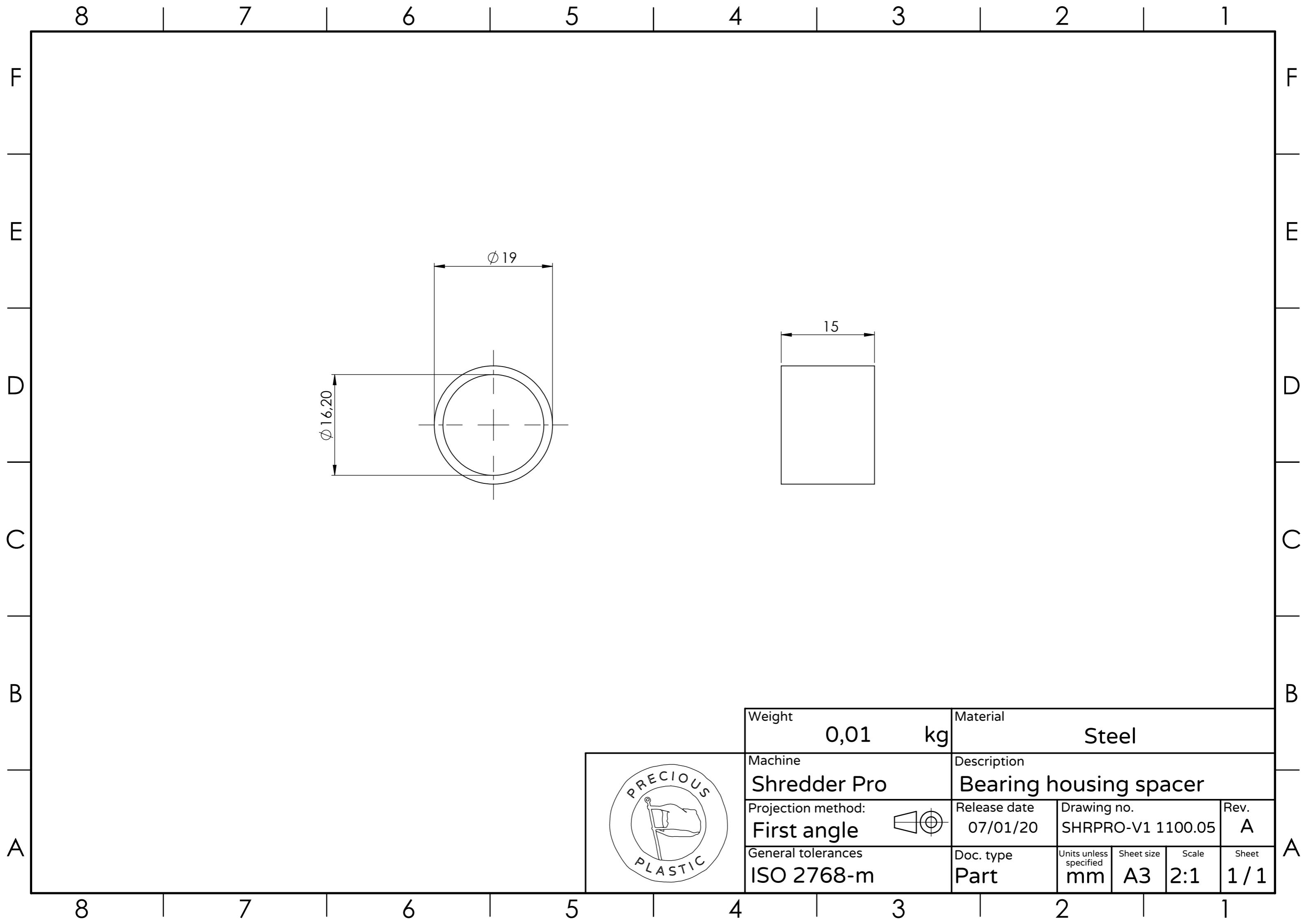


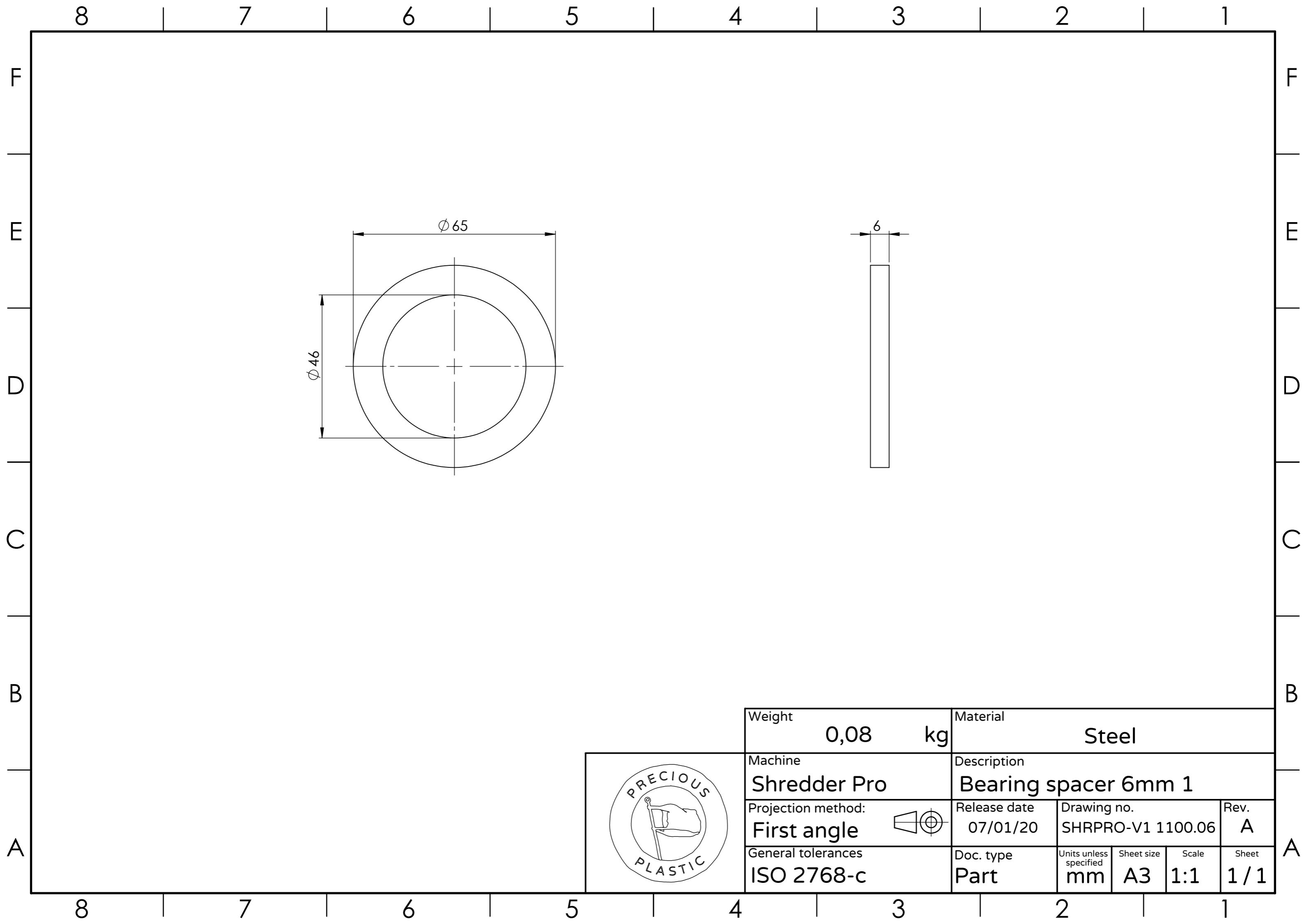


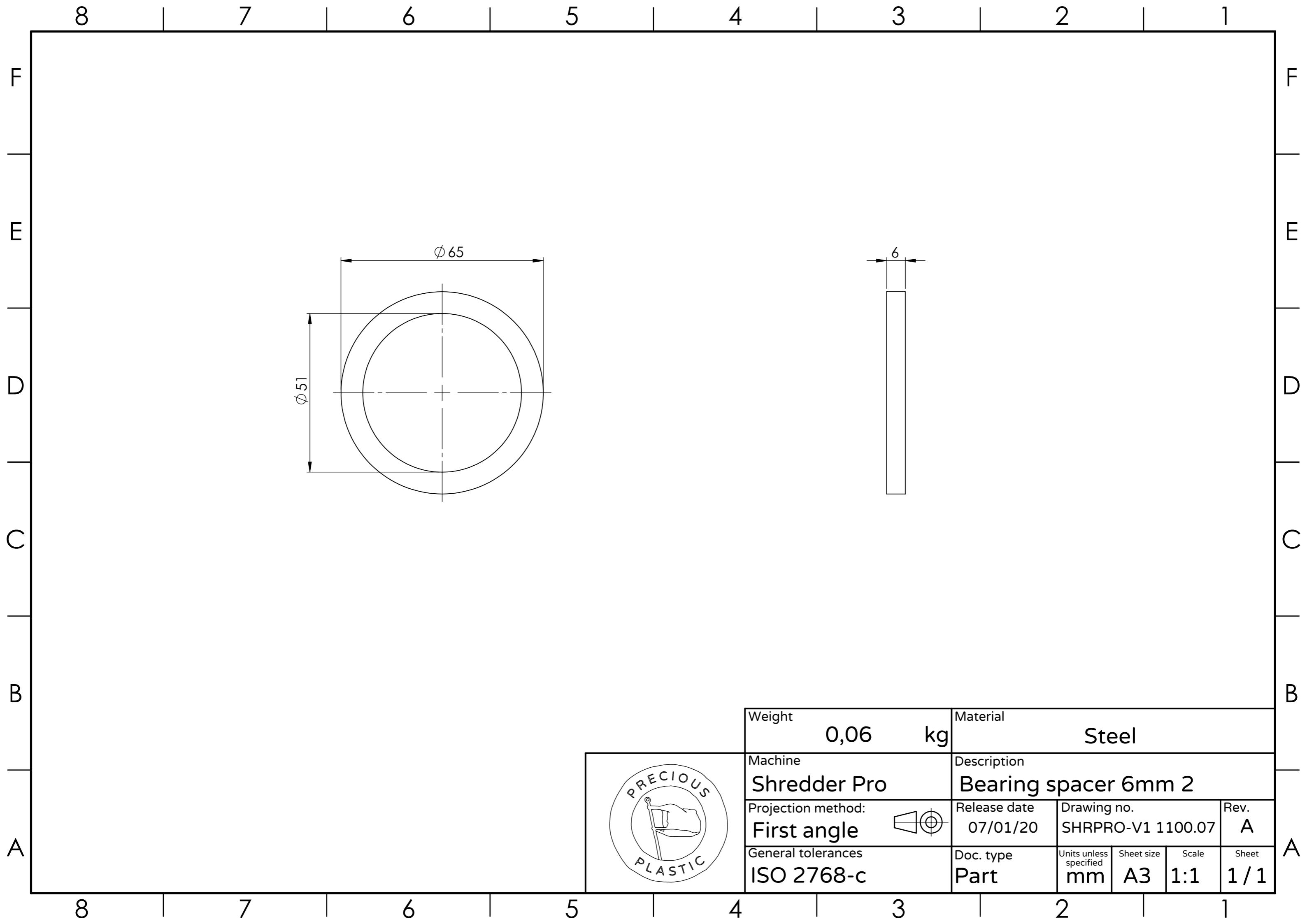


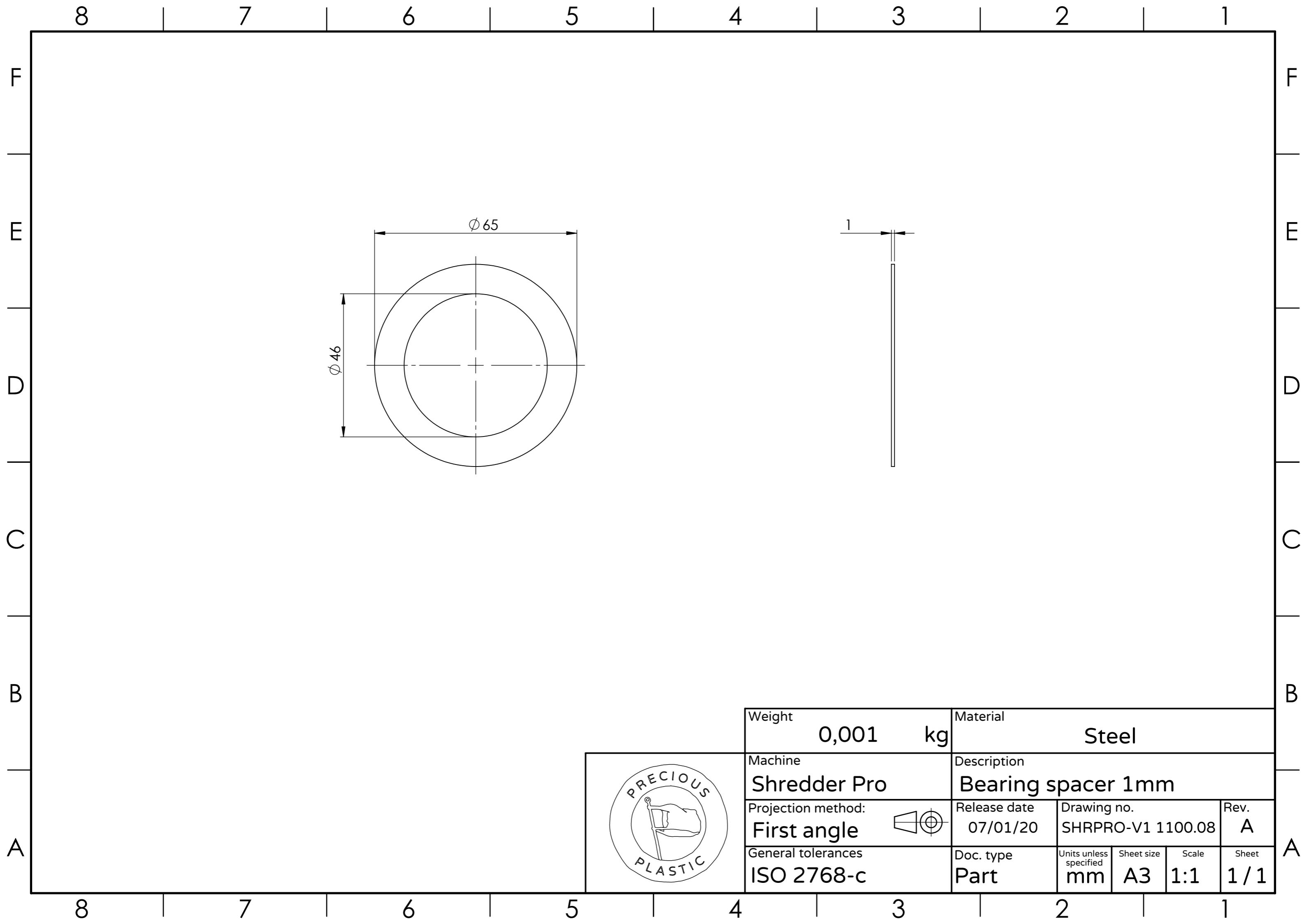


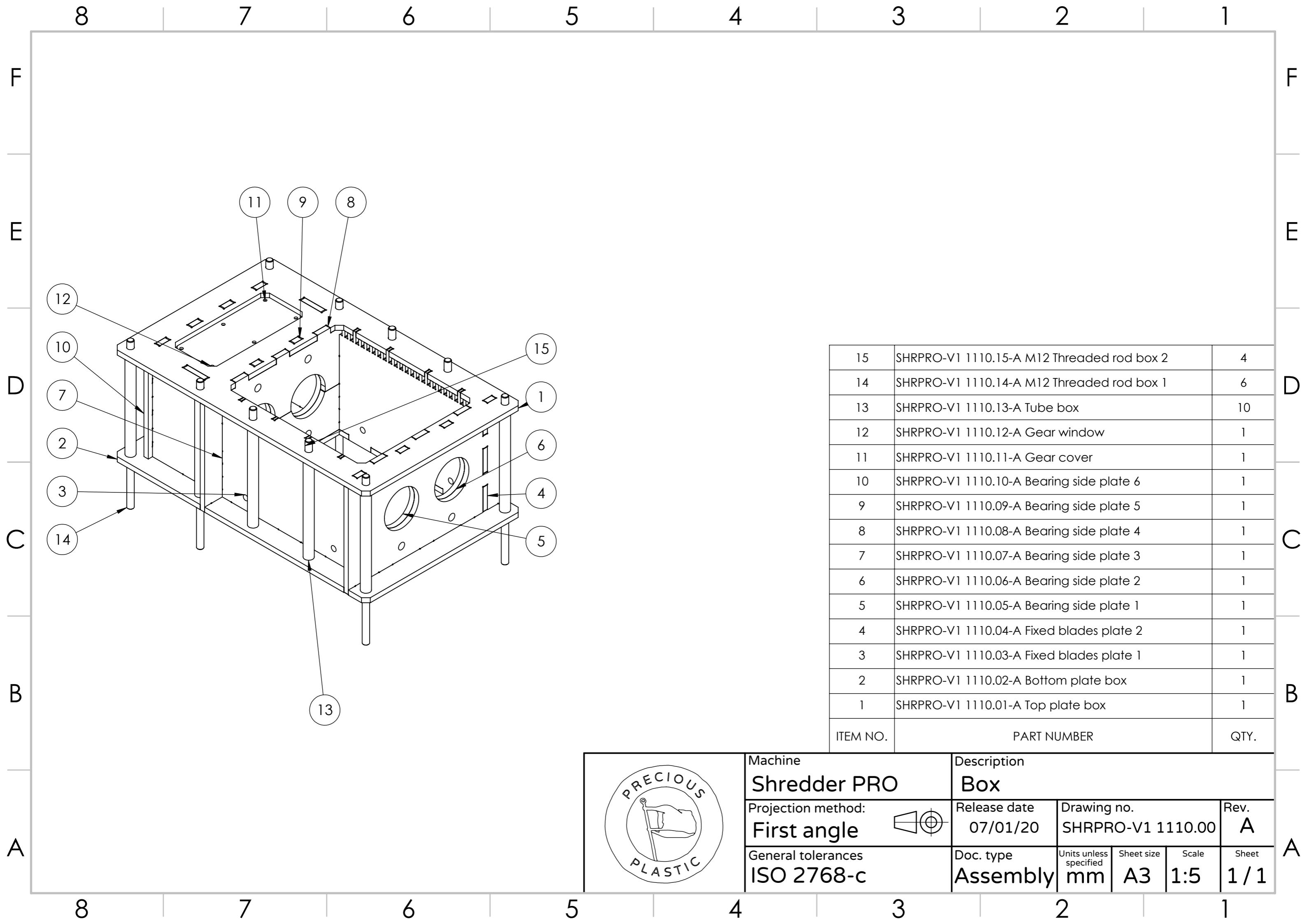


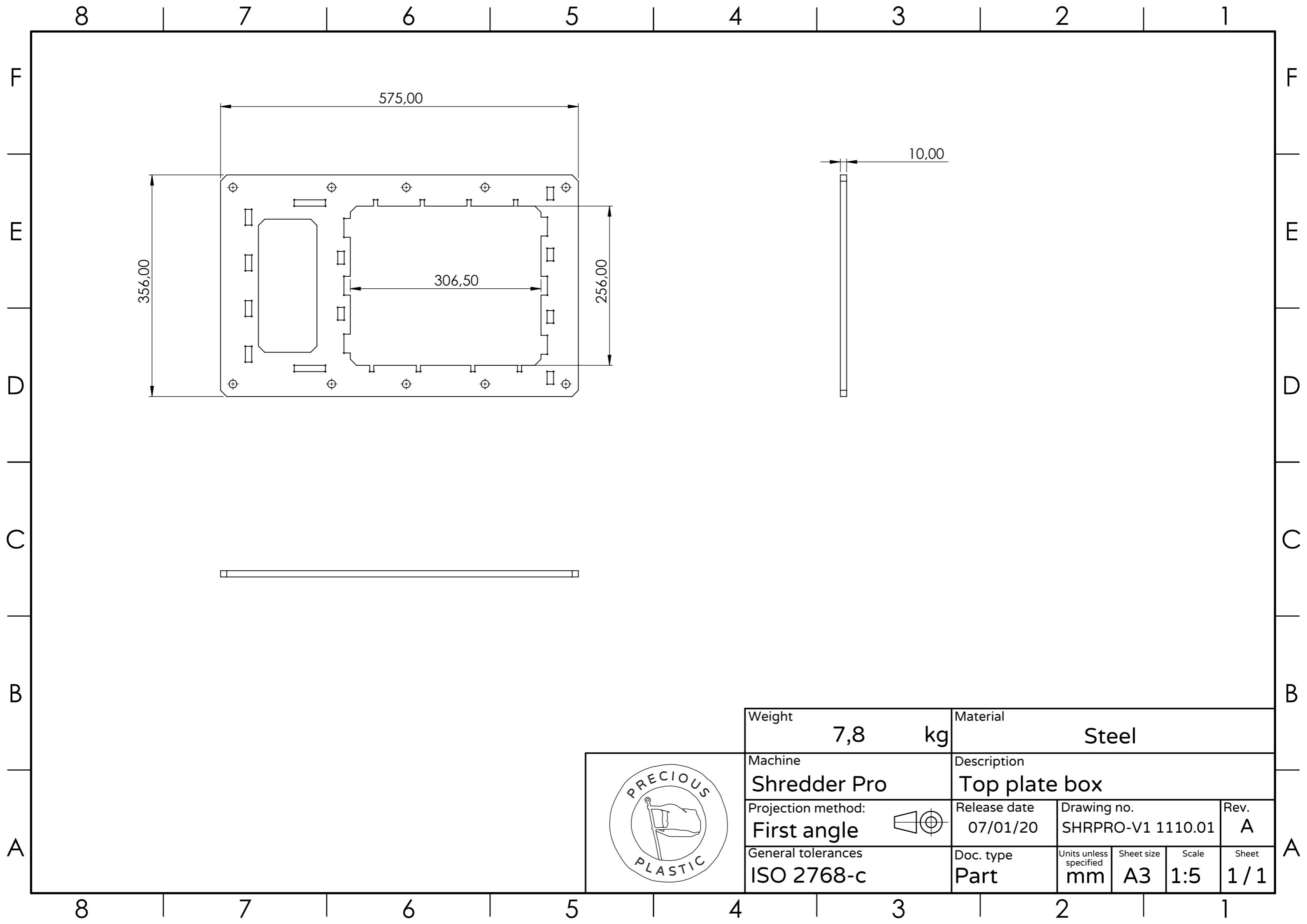


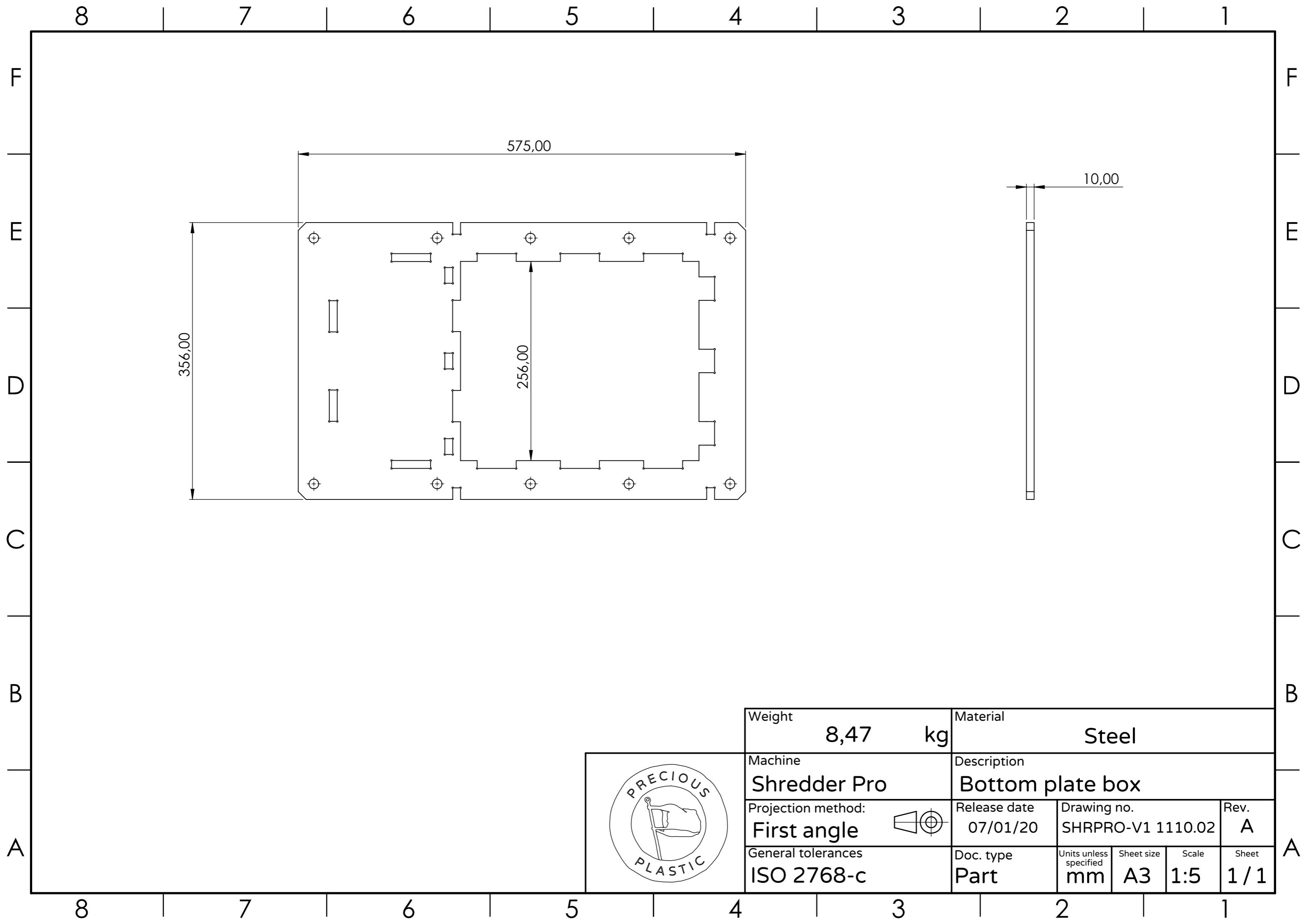


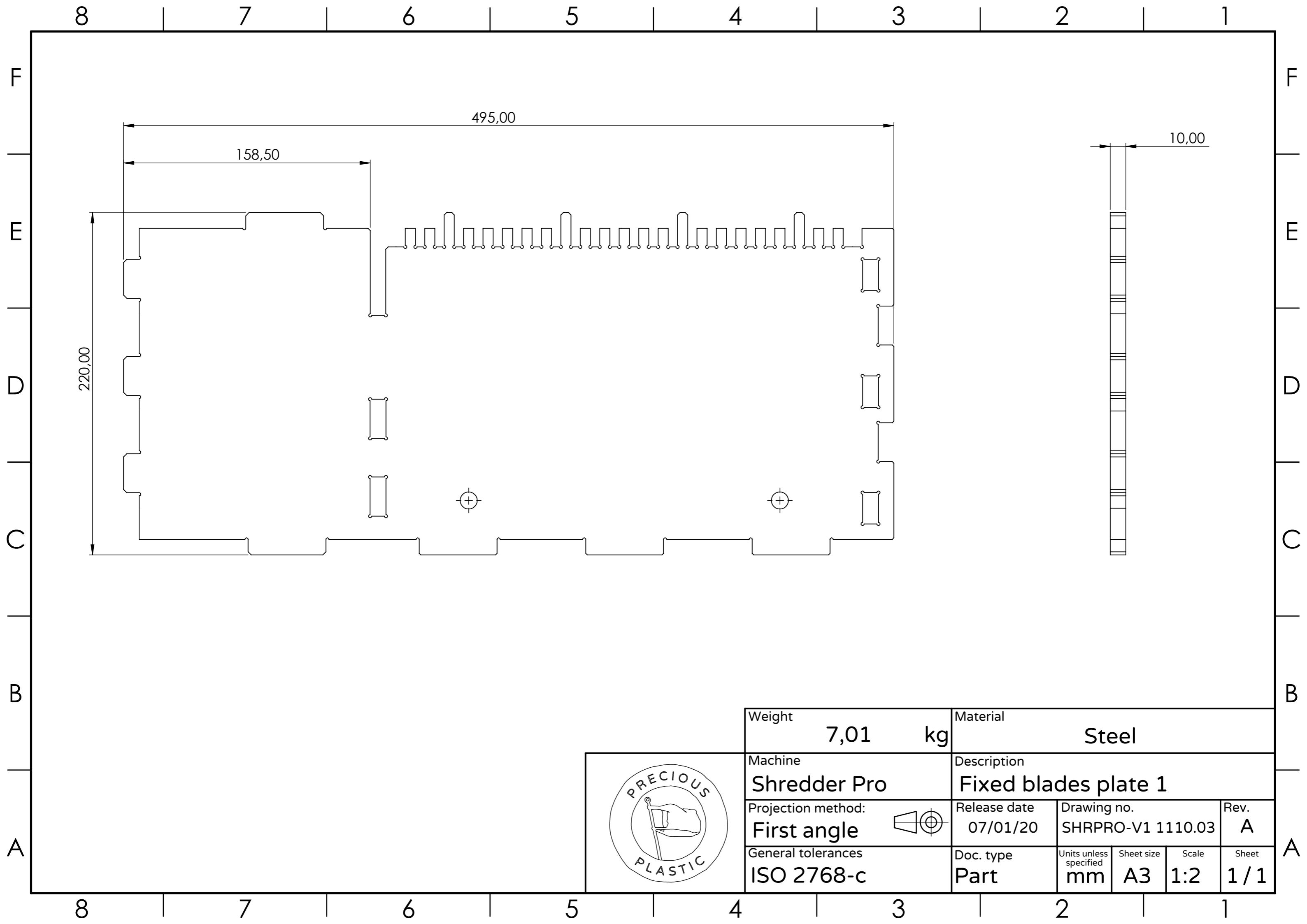


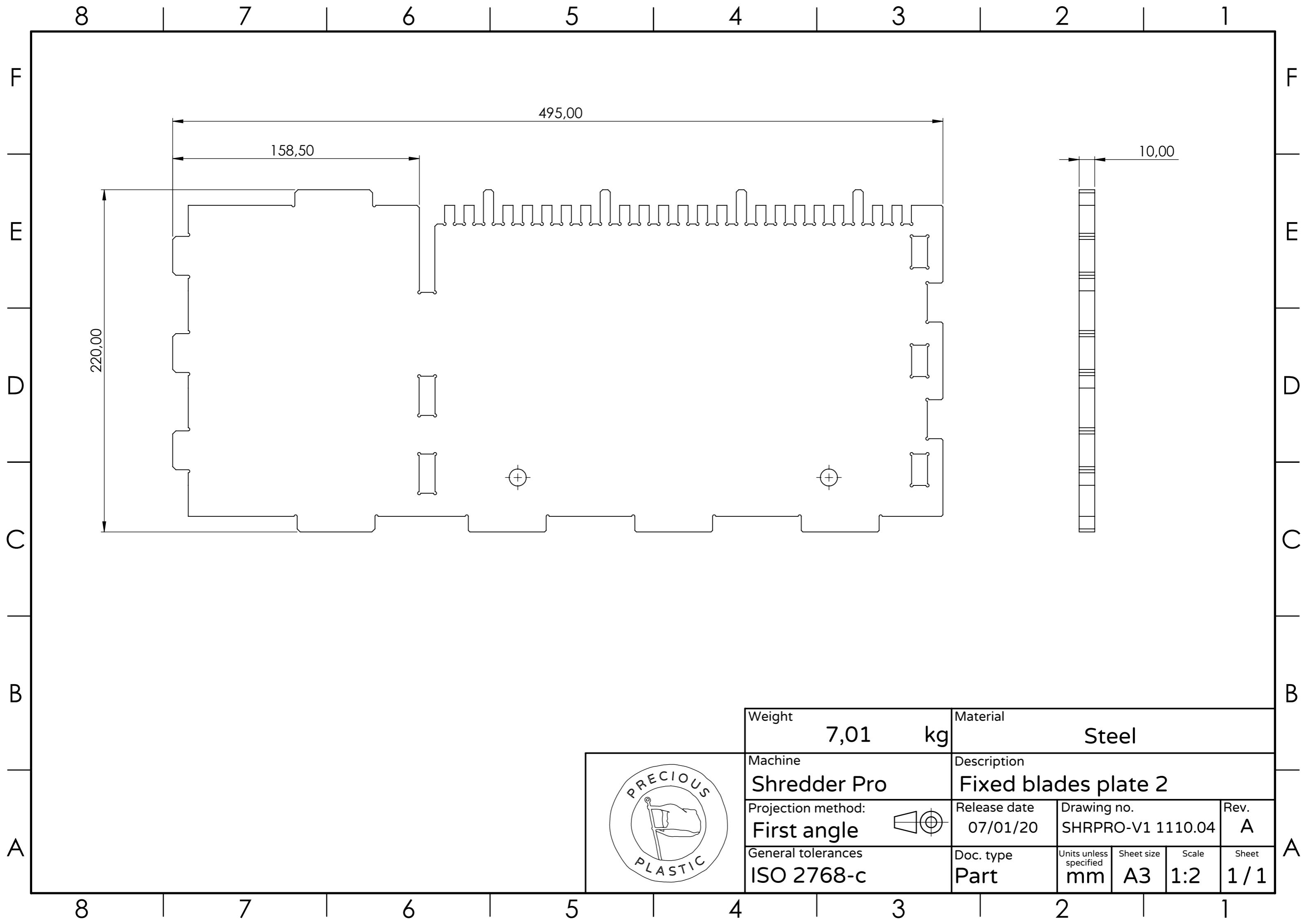


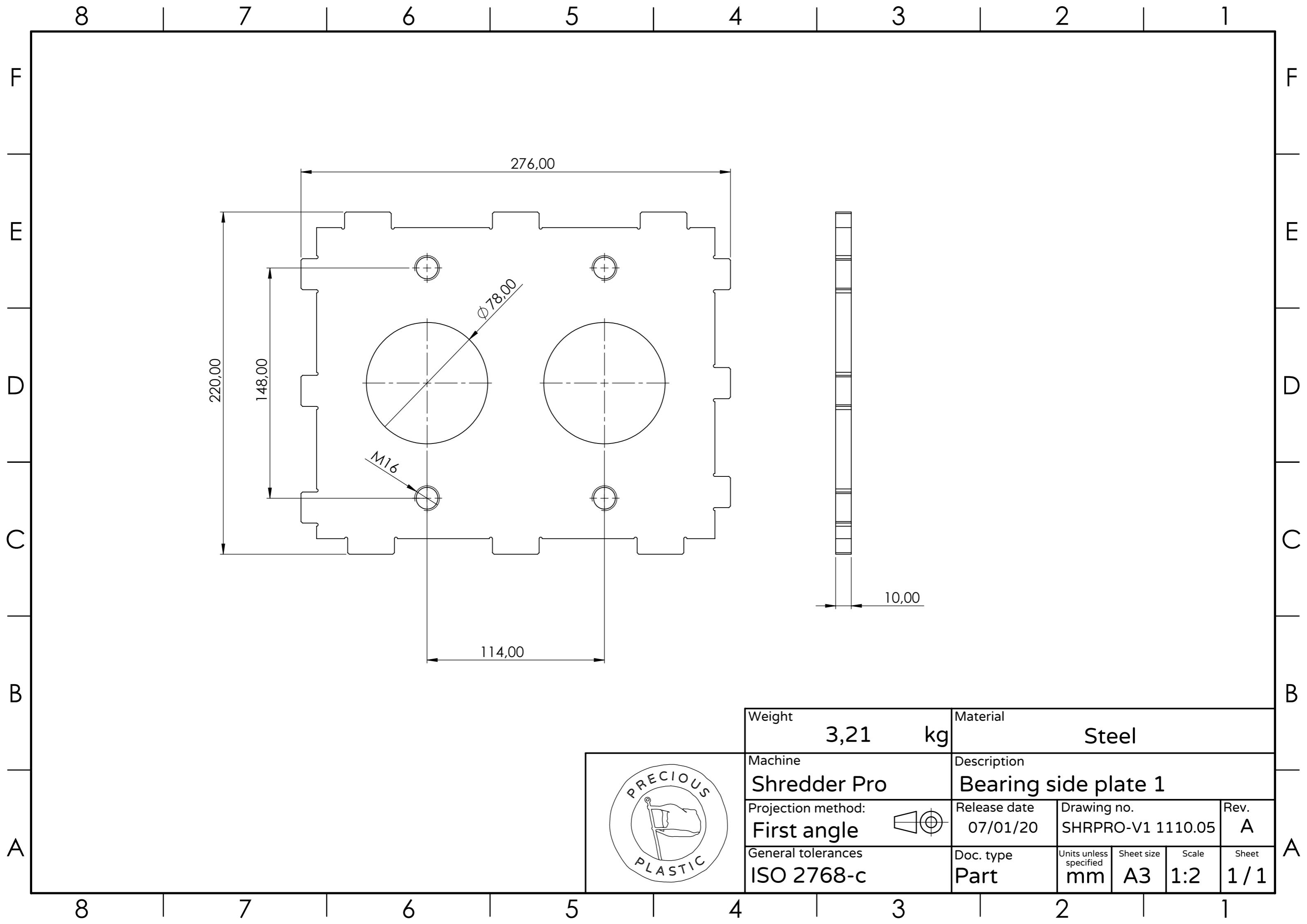


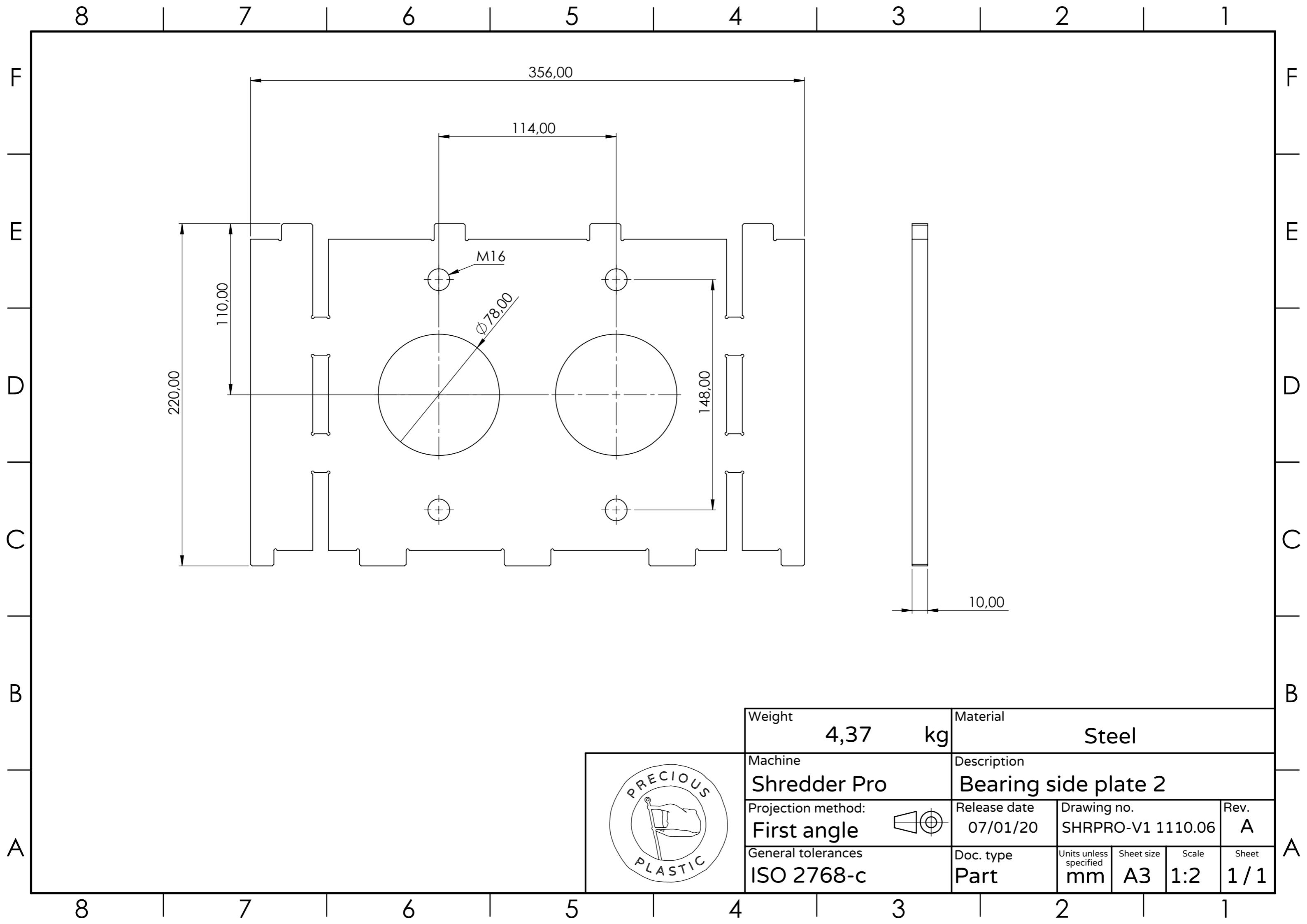


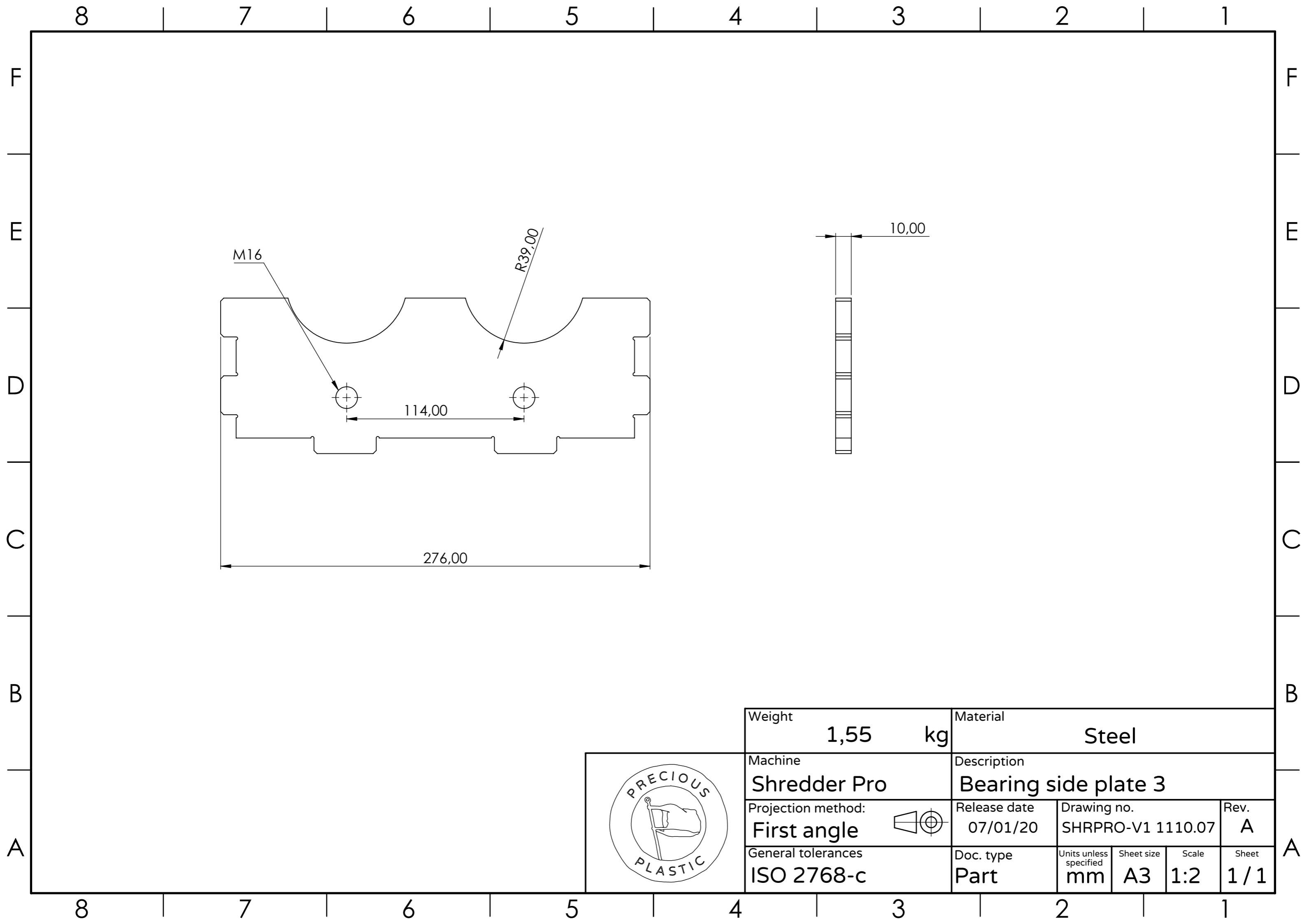


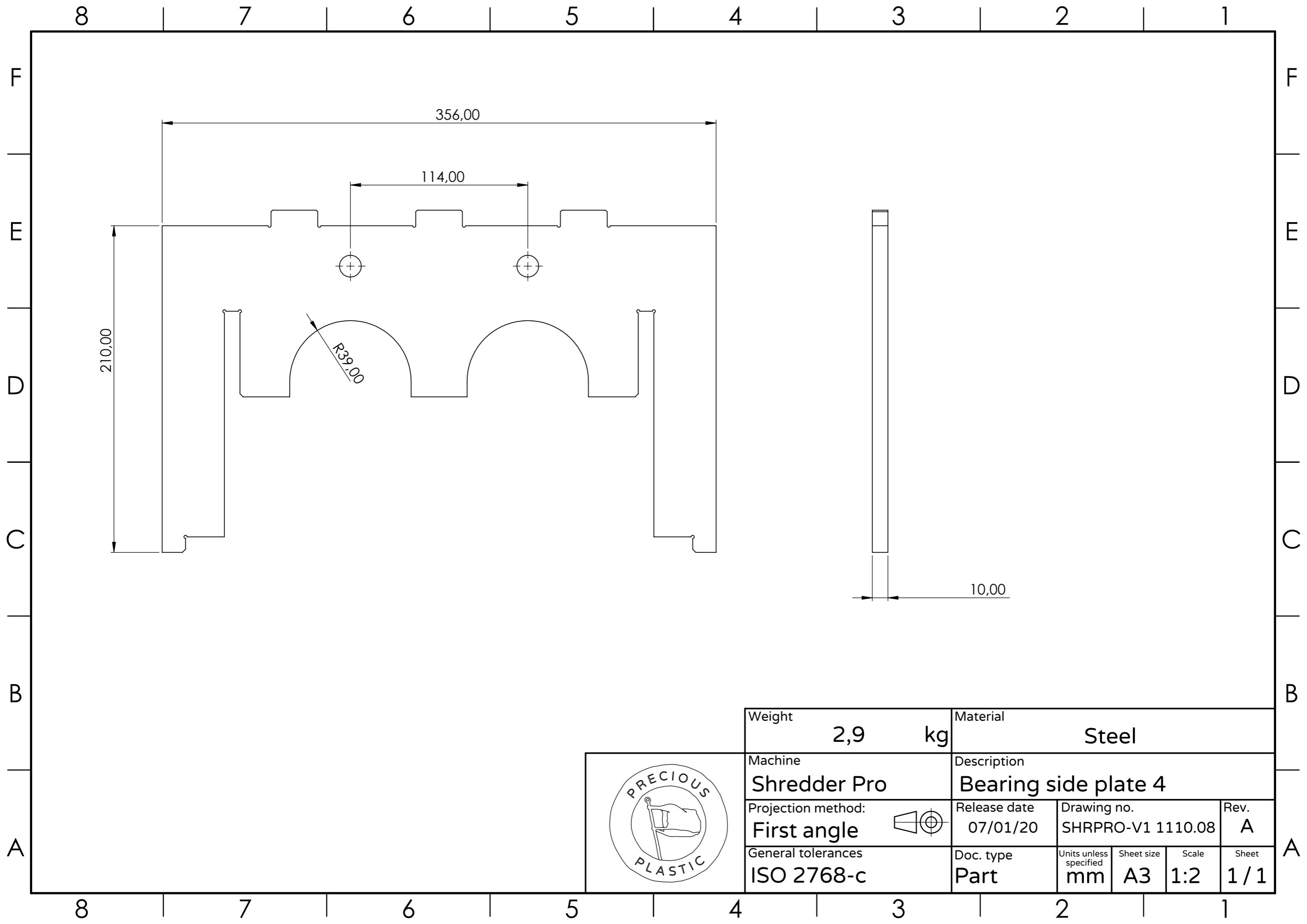


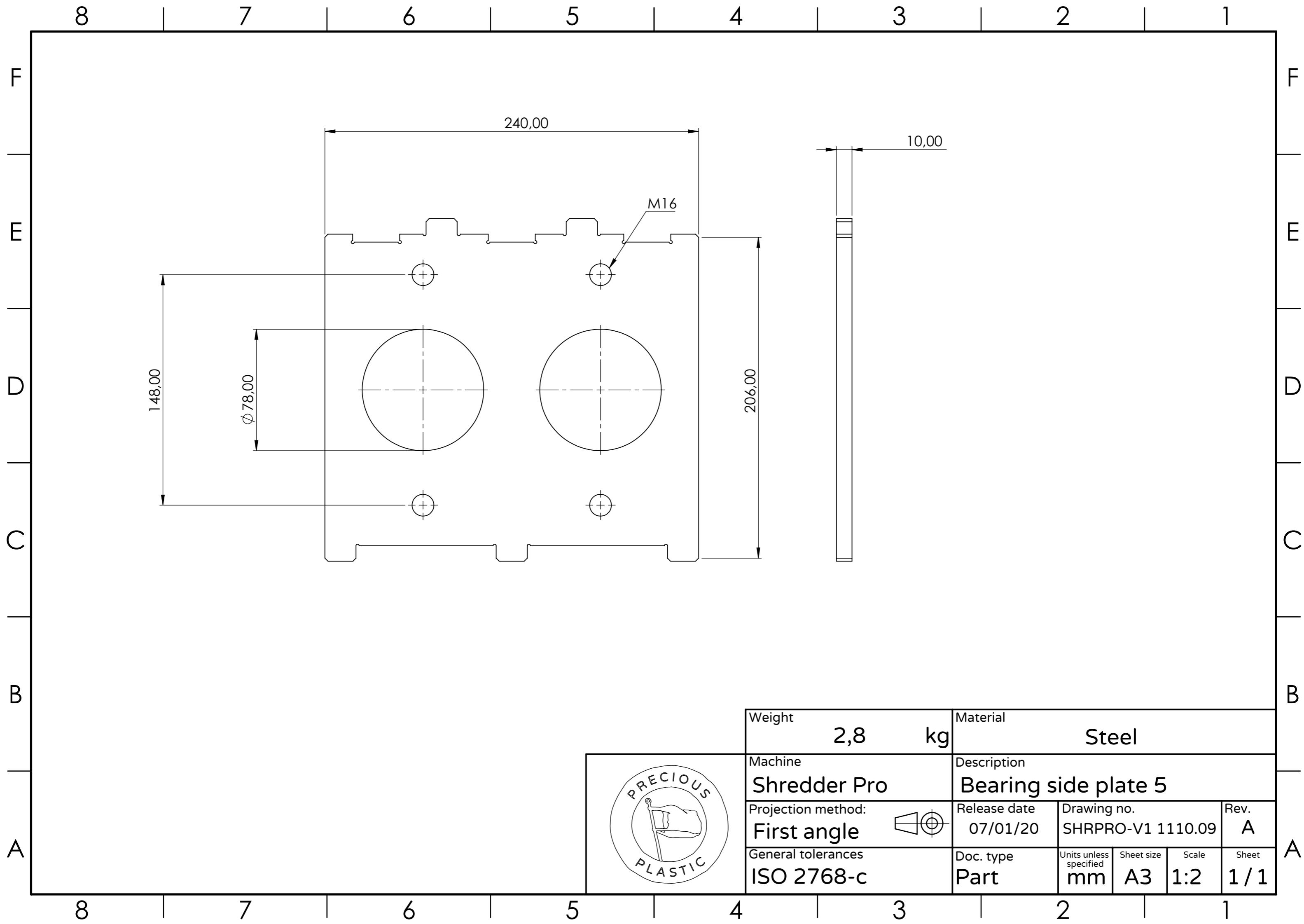


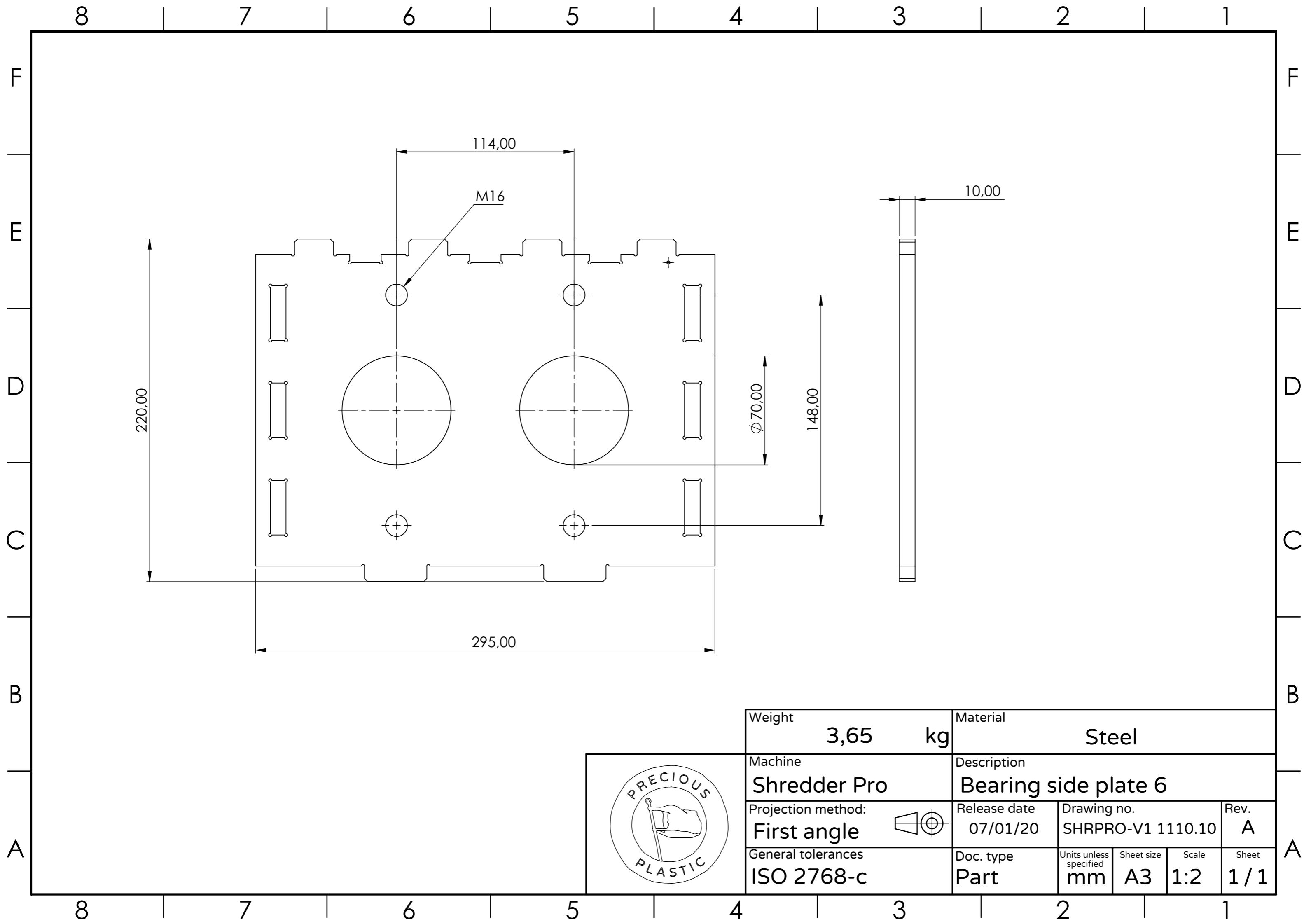


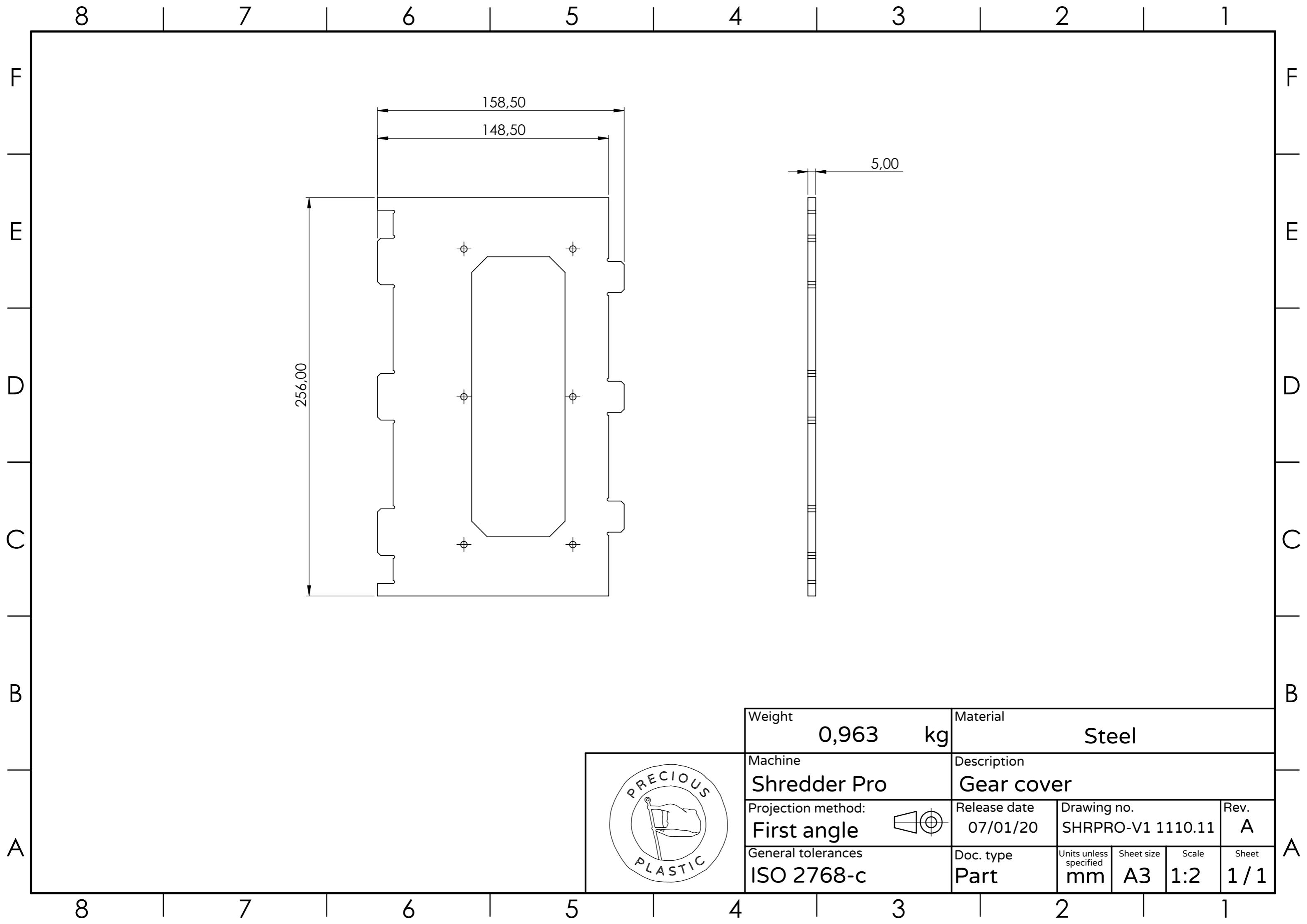


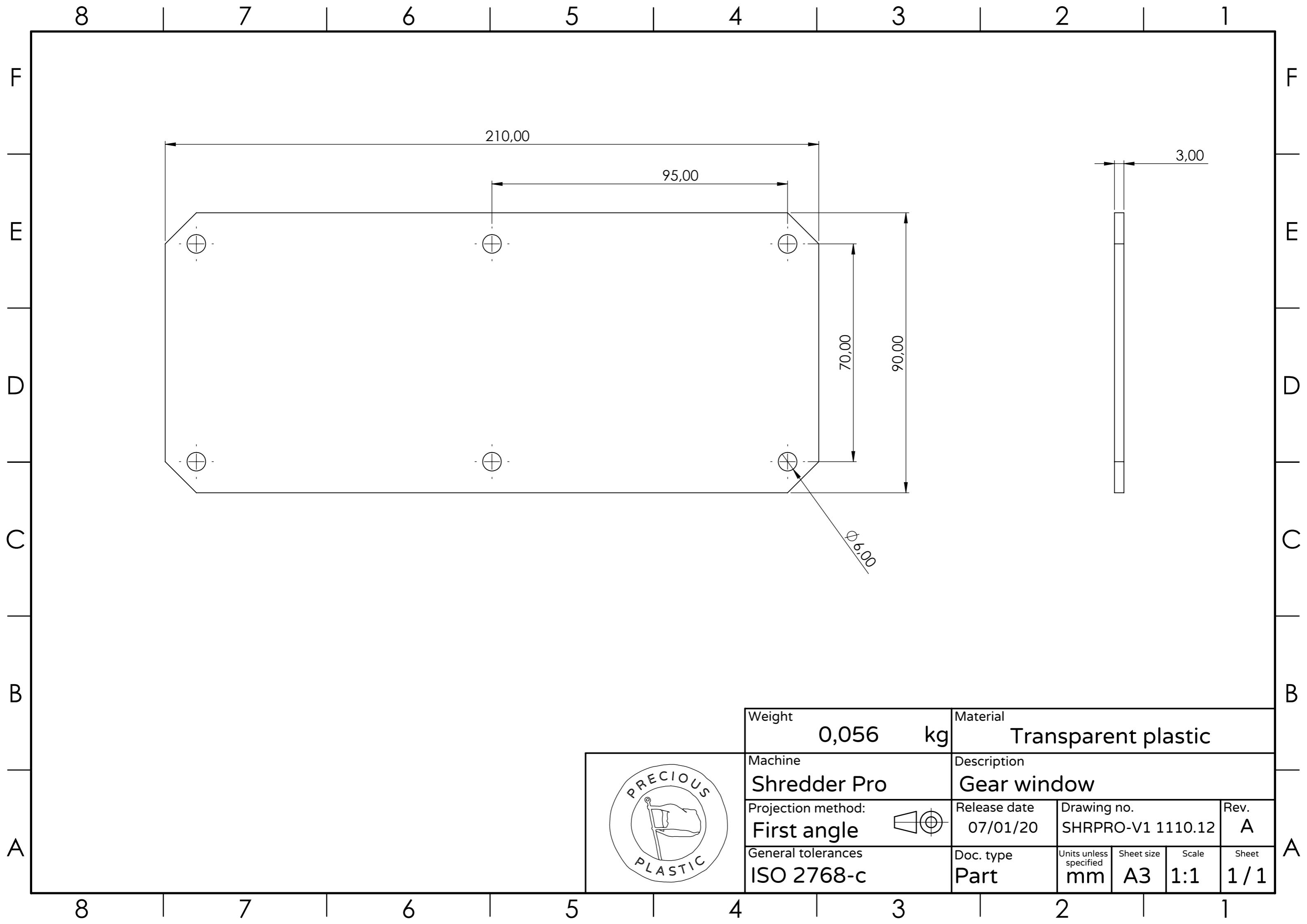


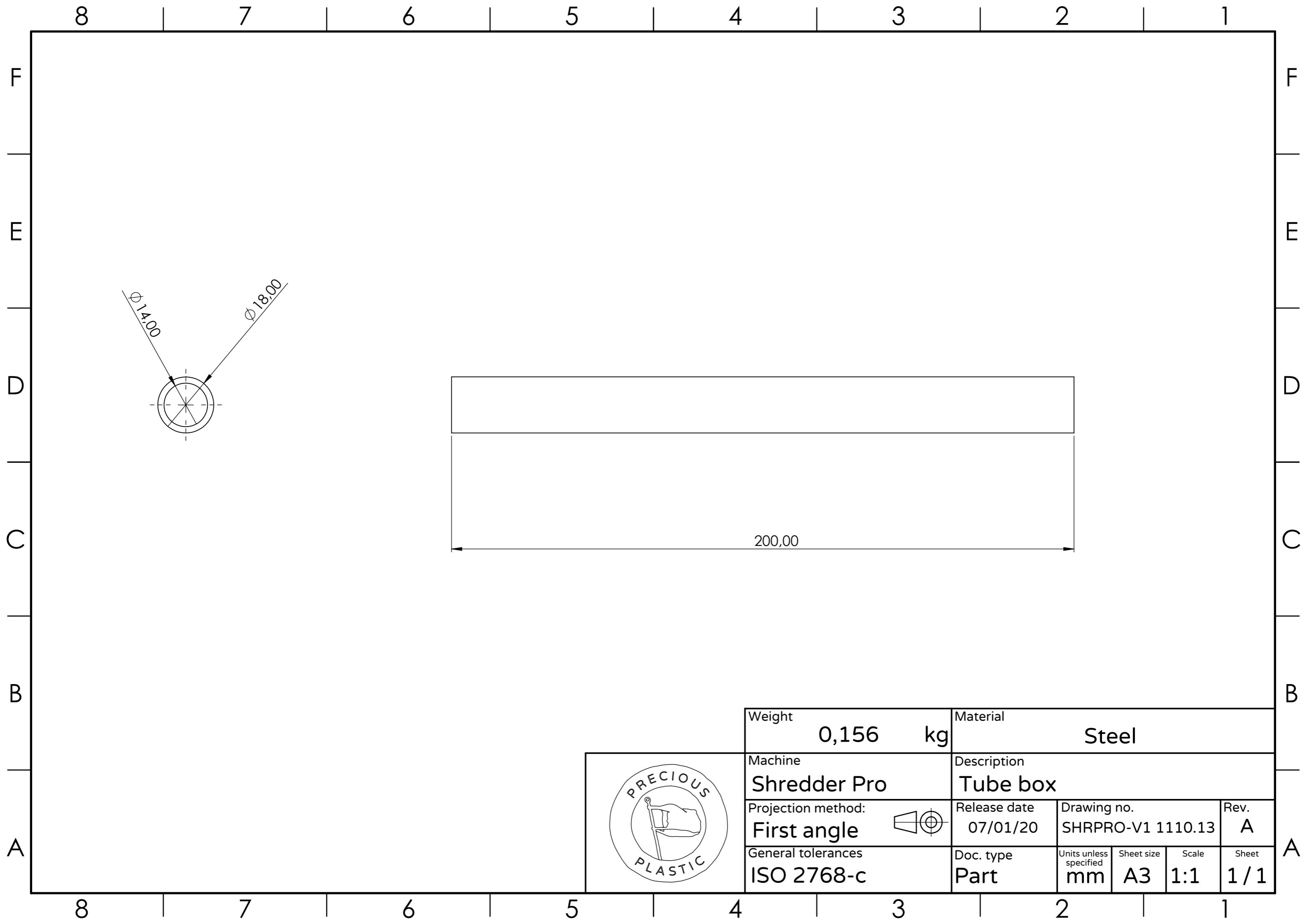


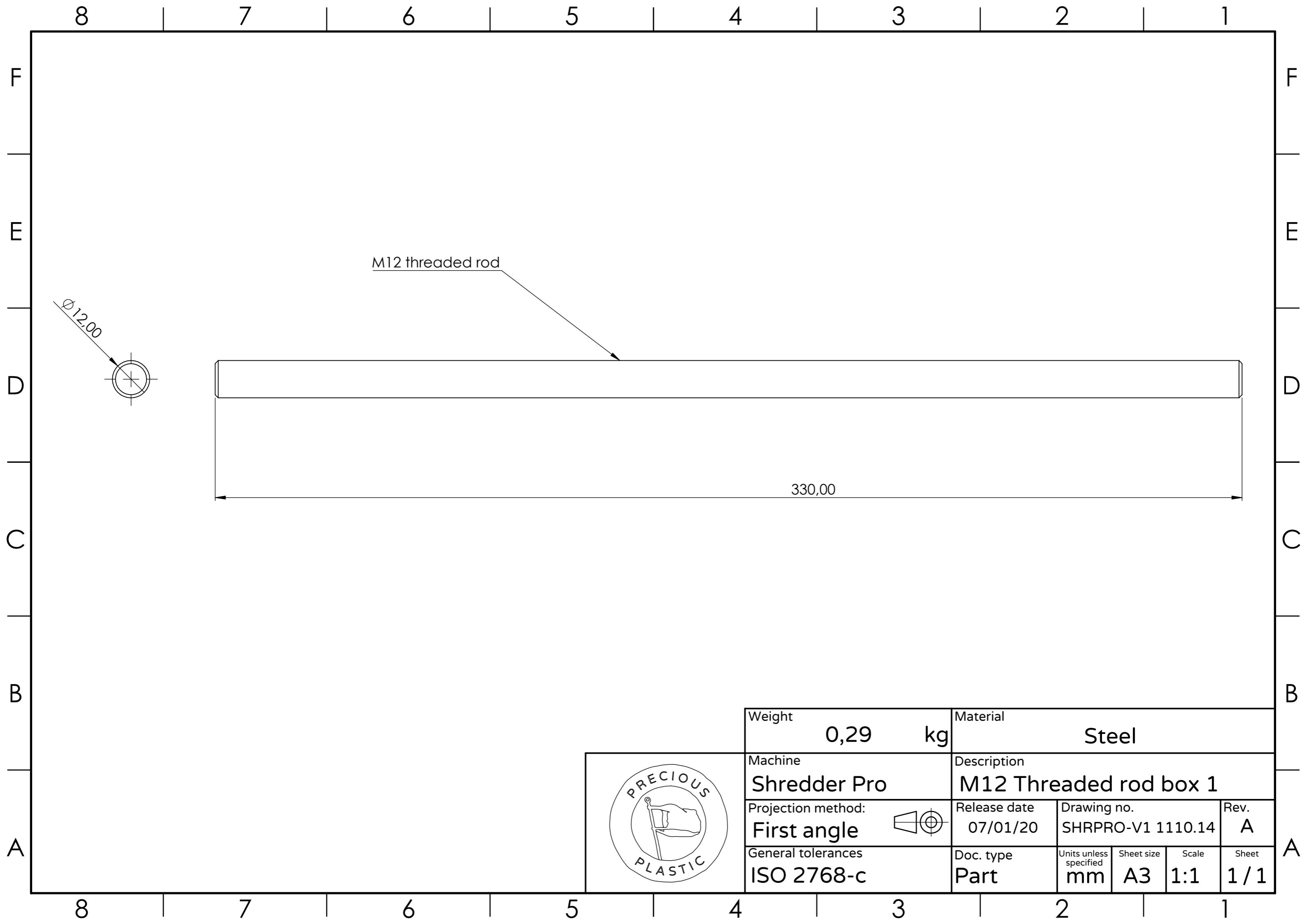


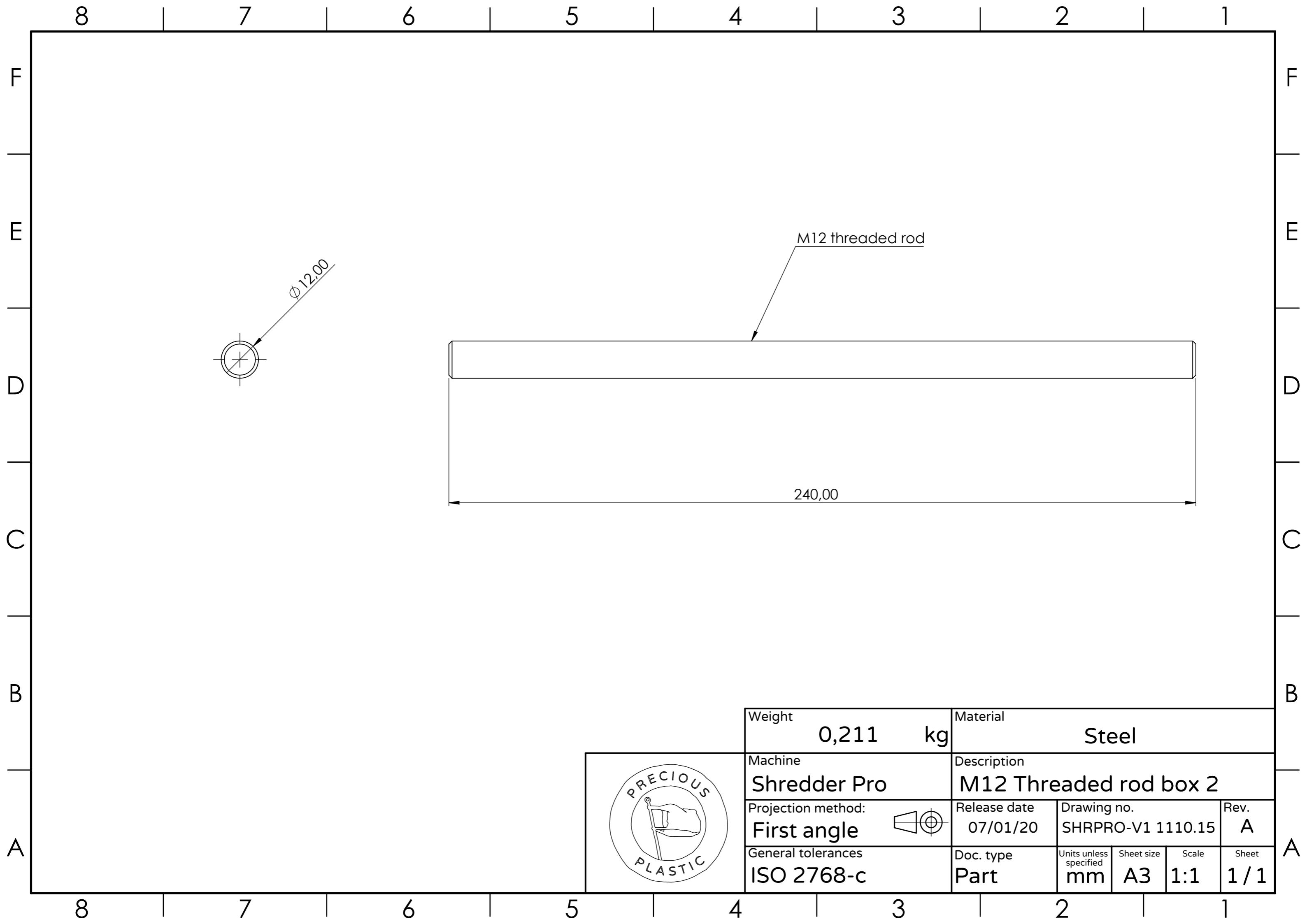






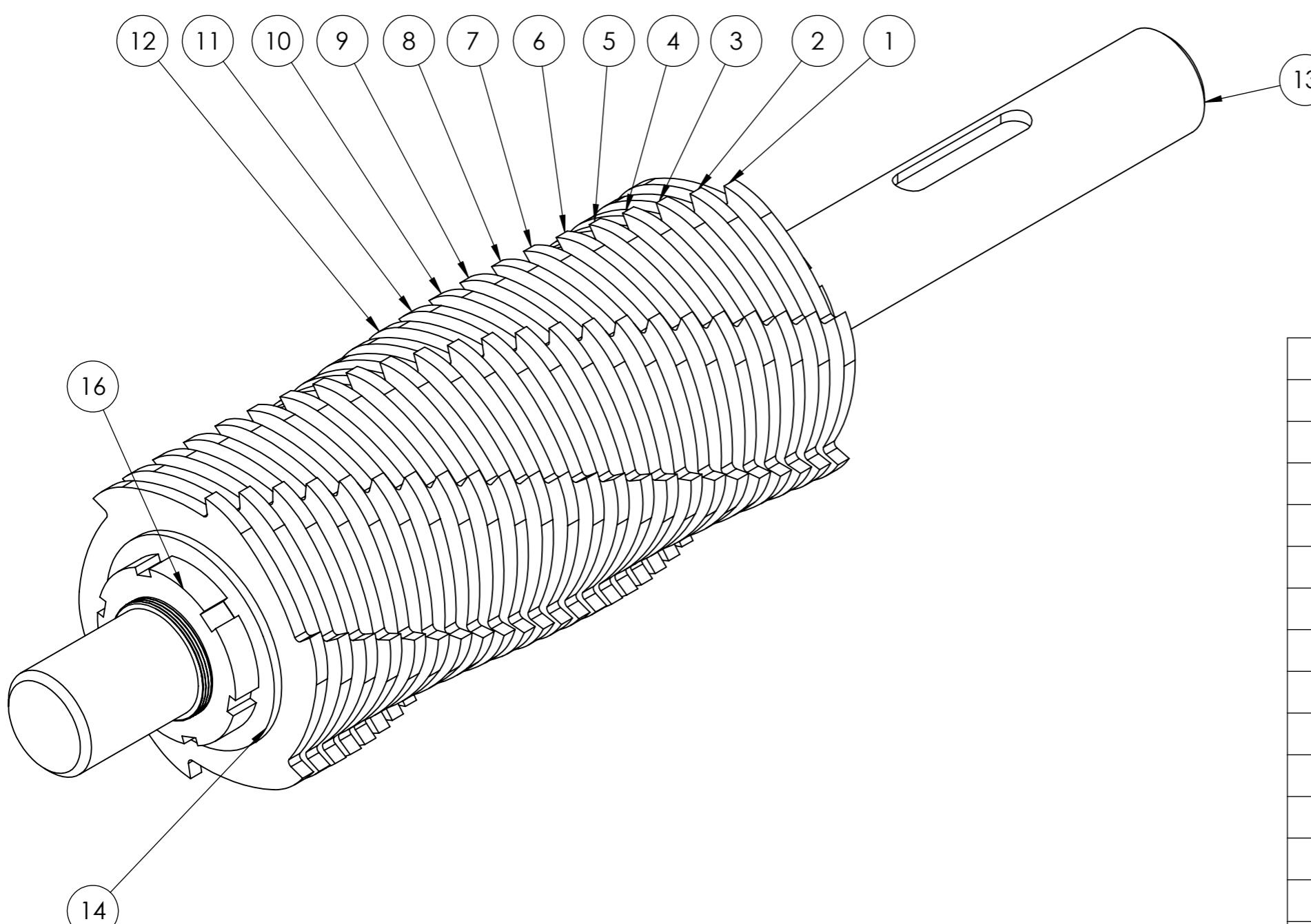




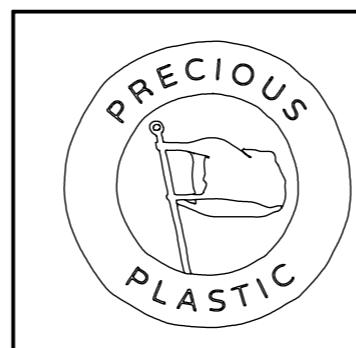


8 7 6 5 4 3 2 1

F



ITEM NO.	PART NUMBER	QTY.
16	SHRPRO-V1 DIN 1804 M50x1,5 Slotted round nut	2
15	SHRPRO-V1 1120.15-A Spacer 2,5mm	23
14	SHRPRO-V1 1120.14-A Spacer 4mm	25
13	SHRPRO-V1 1120.13-A Shaft 1	1
12	SHRPRO-V1 1120.12-A 6 Teeth blade 12	2
11	SHRPRO-V1 1120.11-A 6 Teeth blade 11	2
10	SHRPRO-V1 1120.10-A 6 Teeth blade 10	2
9	SHRPRO-V1 1120.09-A 6 Teeth blade 9	2
8	SHRPRO-V1 1120.08-A 6 Teeth blade 8	2
7	SHRPRO-V1 1120.07-A 6 Teeth blade 7	2
6	SHRPRO-V1 1120.06-A 6 Teeth blade 6	2
5	SHRPRO-V1 1120.05-A 6 Teeth blade 5	2
4	SHRPRO-V1 1120.04-A 6 Teeth blade 4	2
3	SHRPRO-V1 1120.03-A 6 Teeth blade 3	2
2	SHRPRO-V1 1120.02-A 6 Teeth blade 2	2
1	SHRPRO-V1 1120.01-A 6 Teeth blade 1	2



Machine
Shredder PRO

Projection method:
First angle

General tolerances
ISO 2768-c

Description	Shaft 1 Assembly		
Projection method:	First angle	Release date	Drawing no.
		07/01/20	SHRPRO-V1 1120.00
General tolerances	Doc. type	Units unless specified	Rev.
ISO 2768-c	Assembly	mm	A
		A3	1:2
		Sheet size	Scale
			1 / 1

8 7 6 5 4 3 2 1

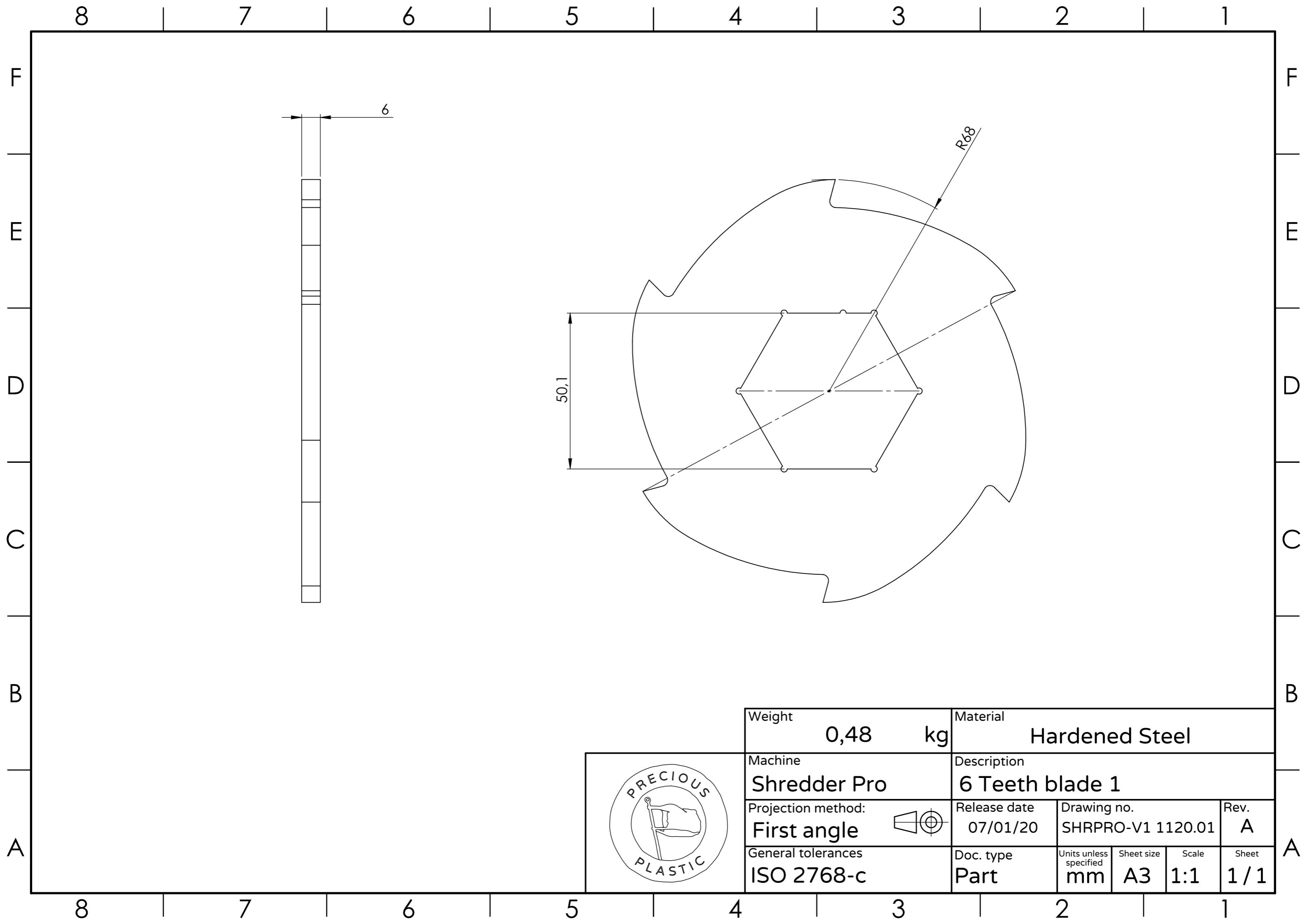
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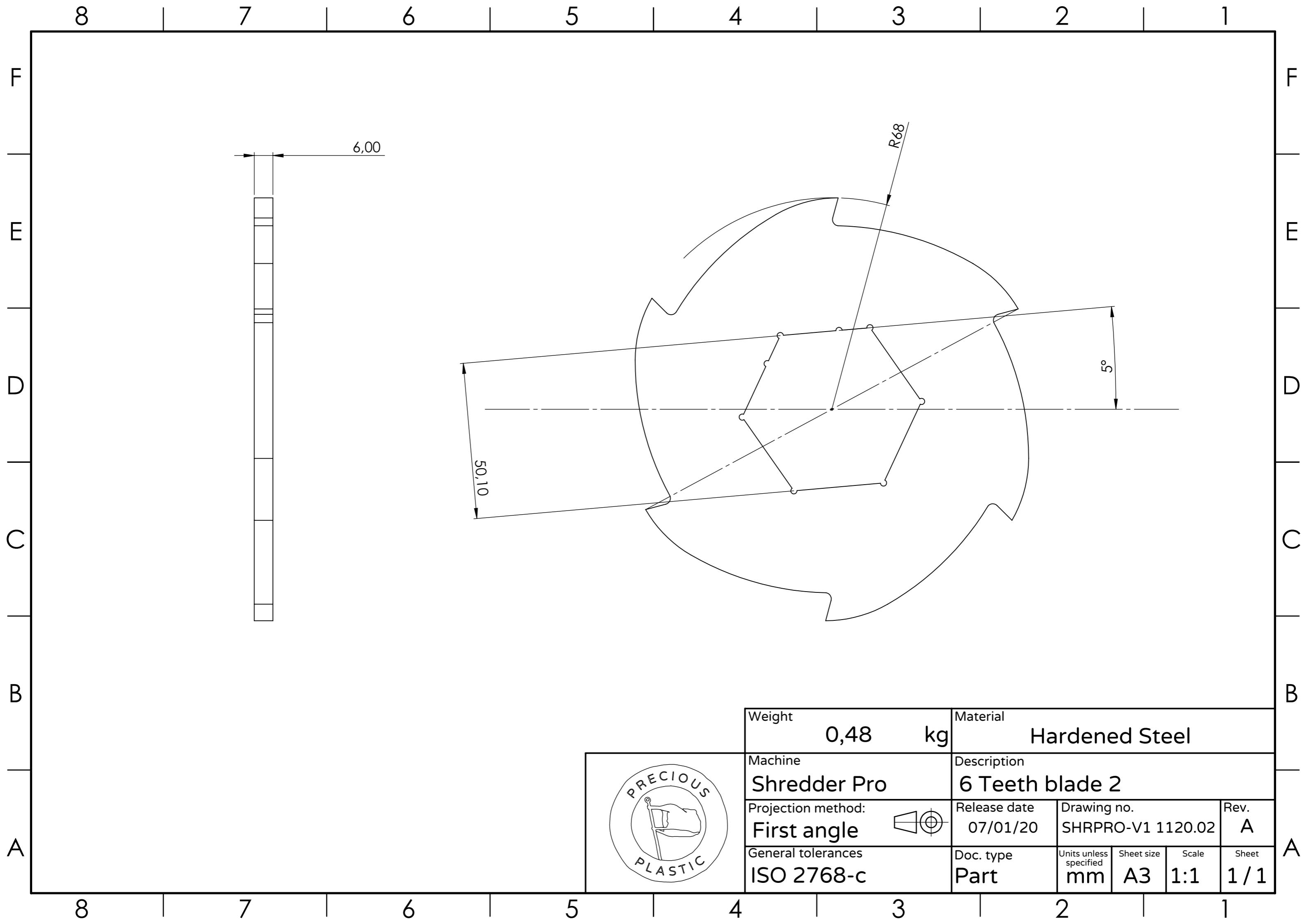
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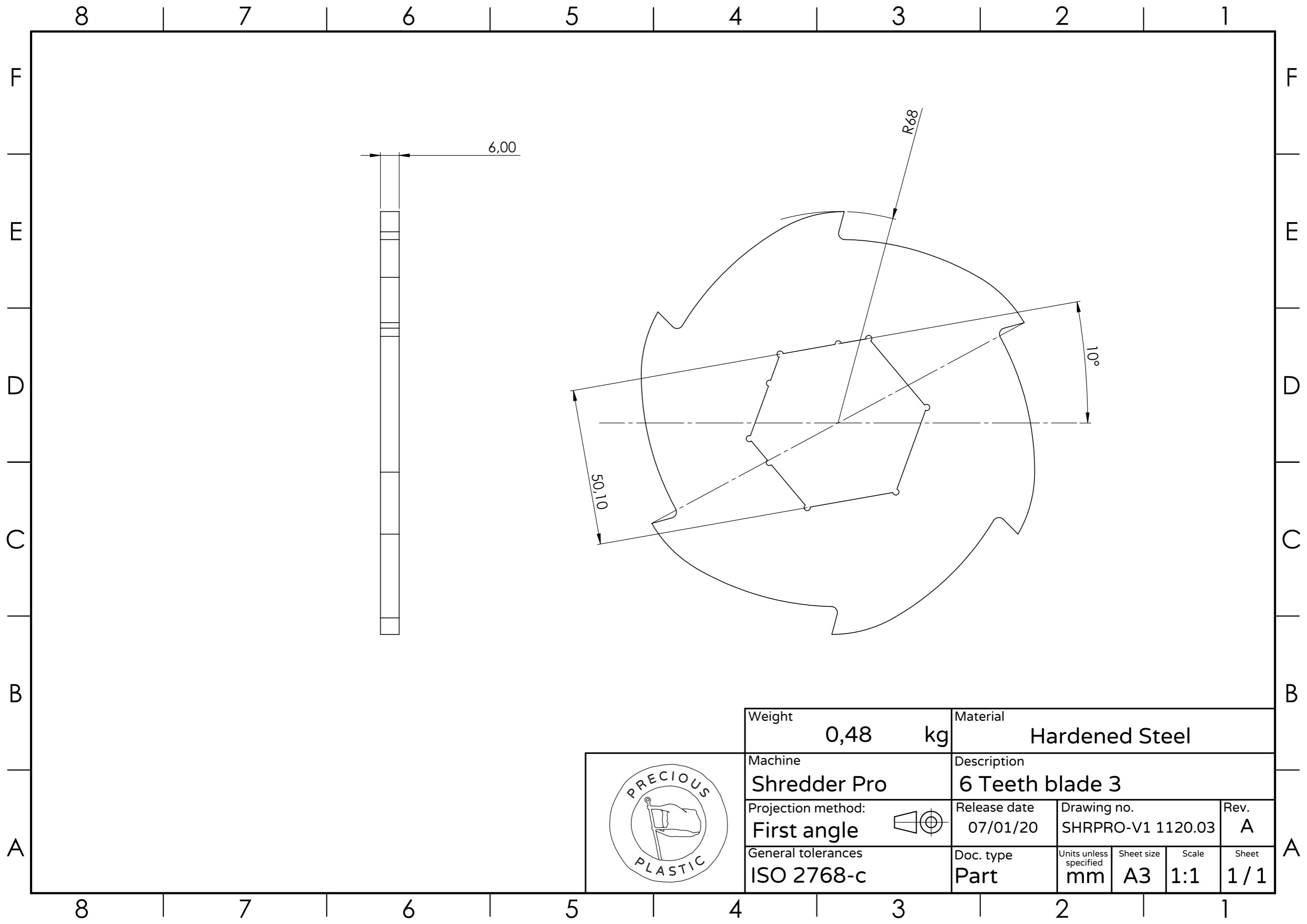
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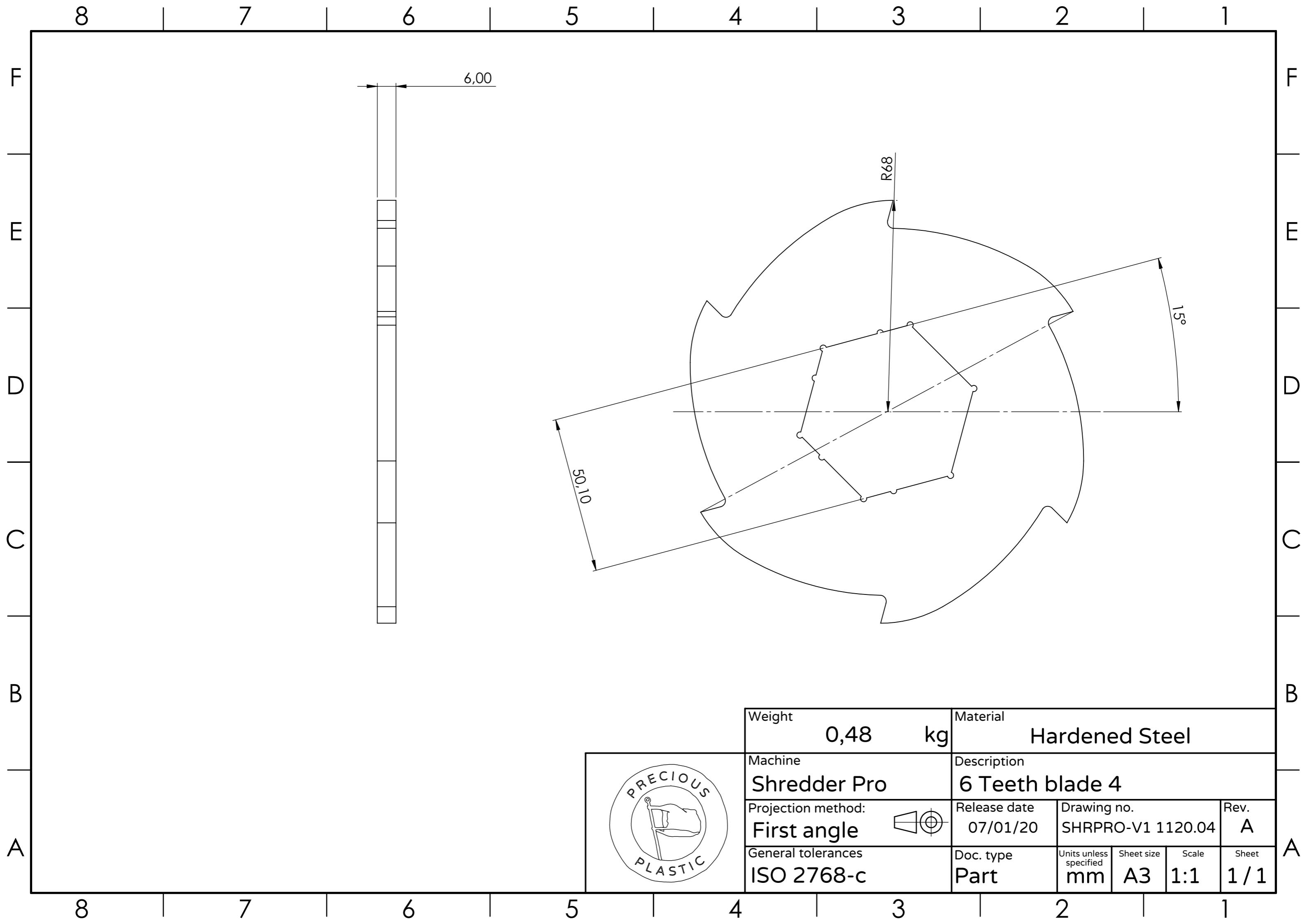
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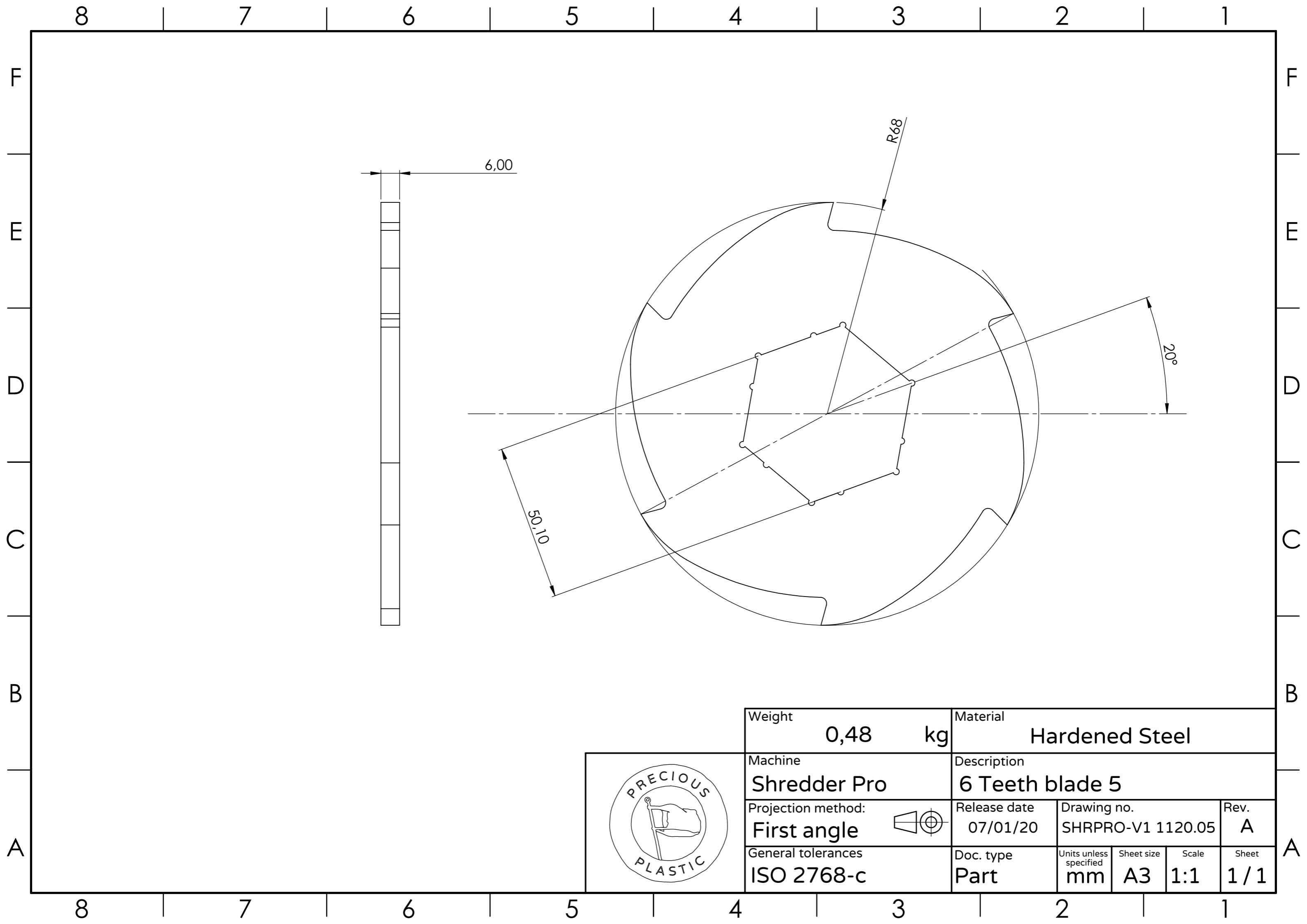
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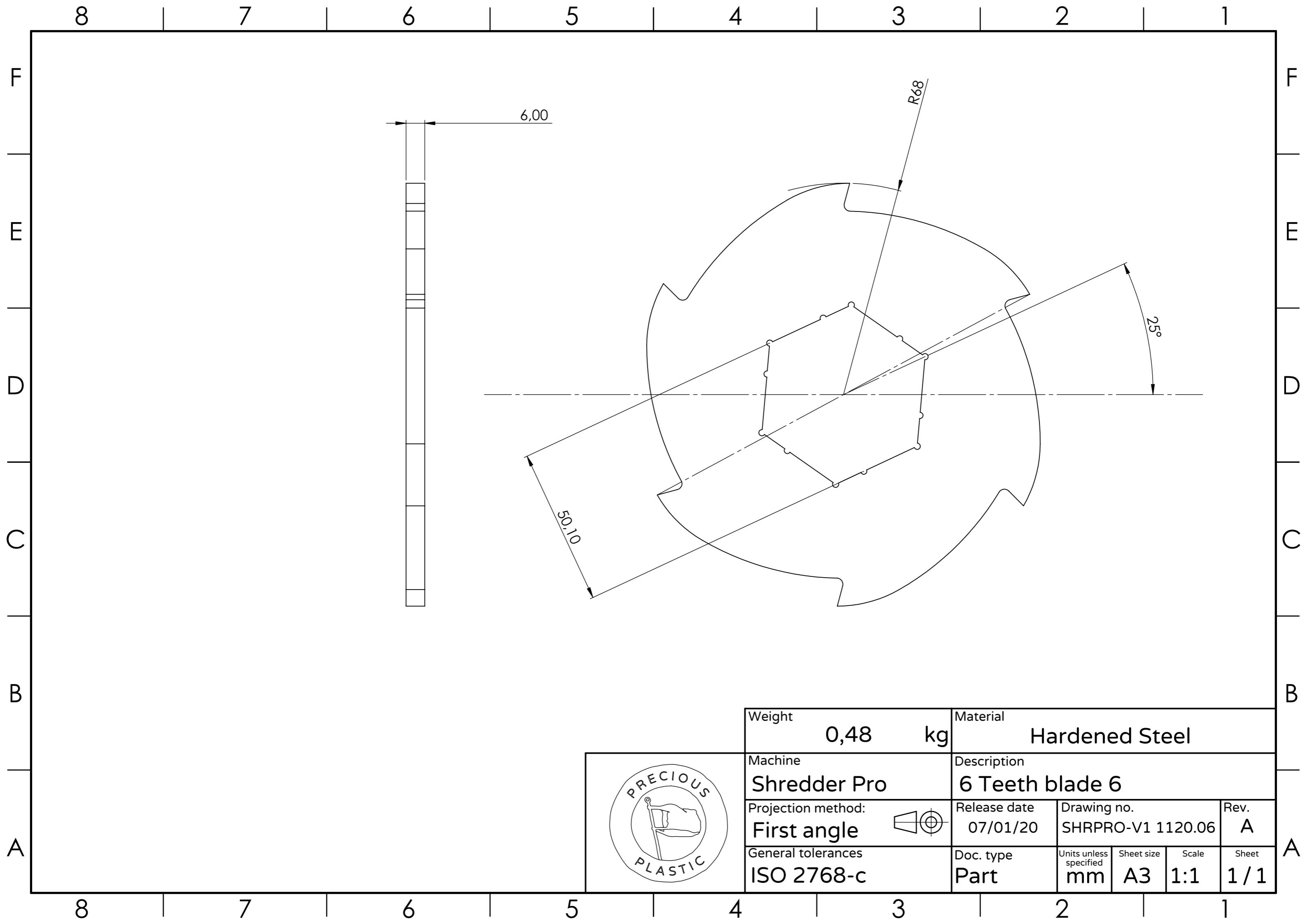


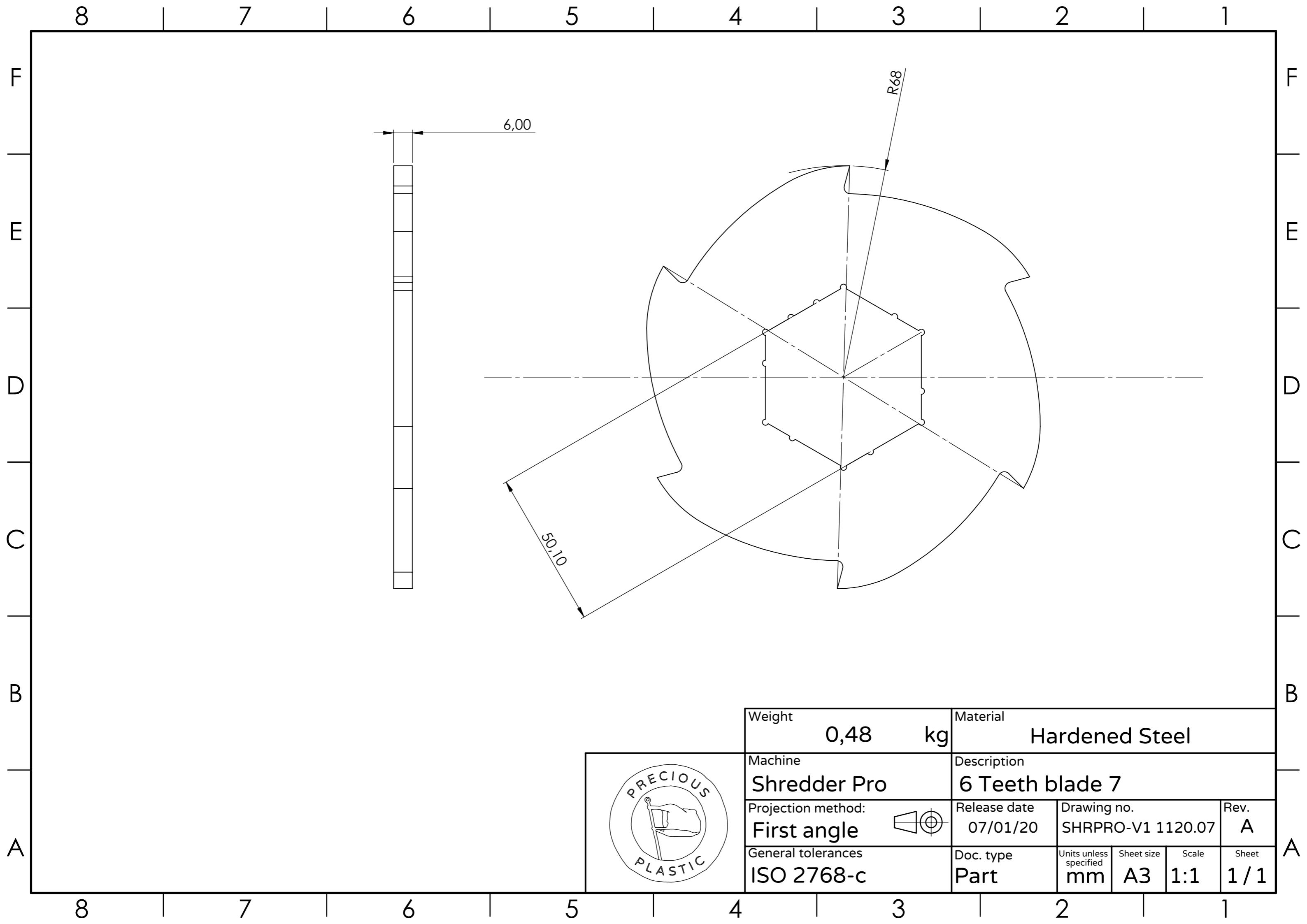


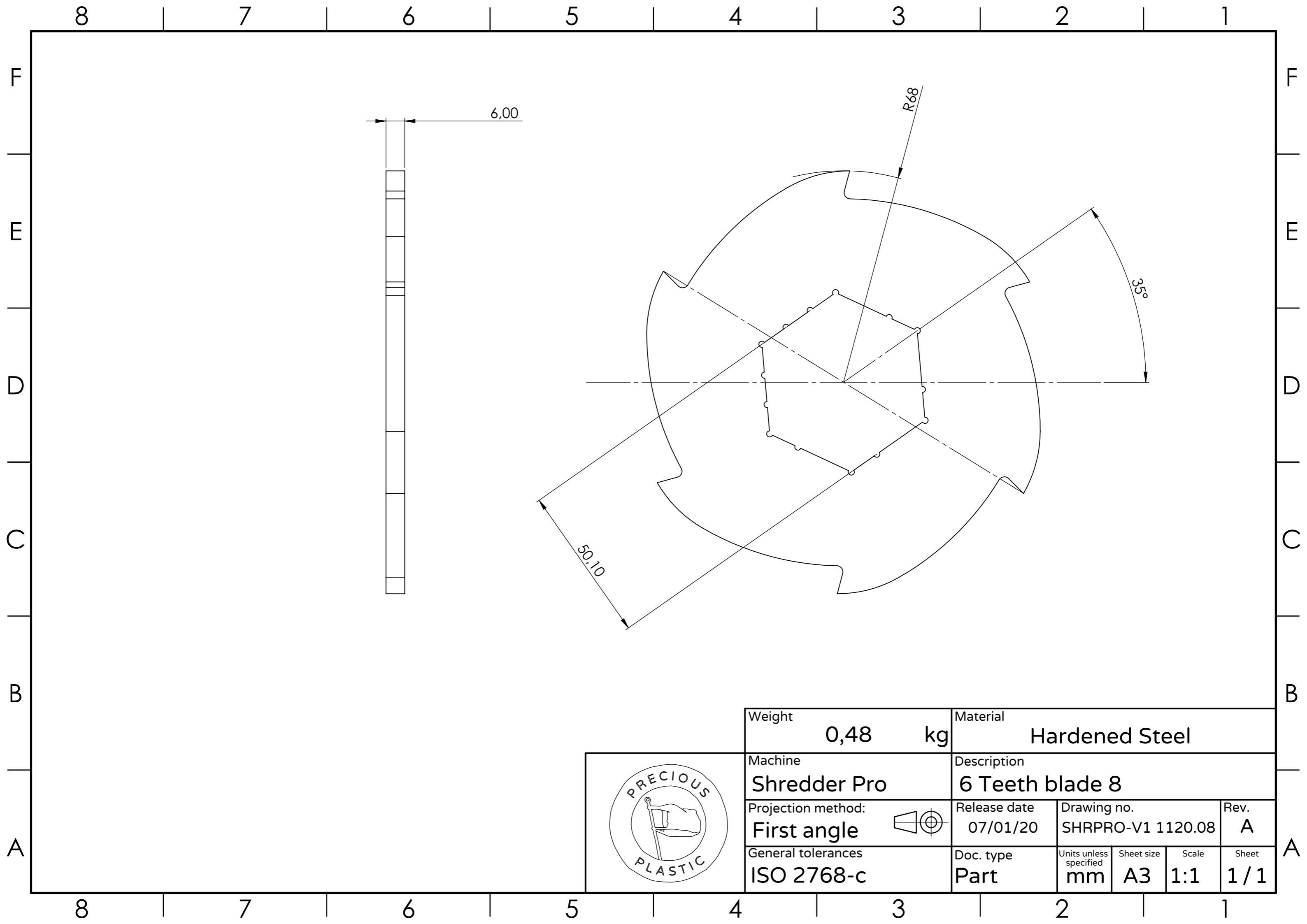


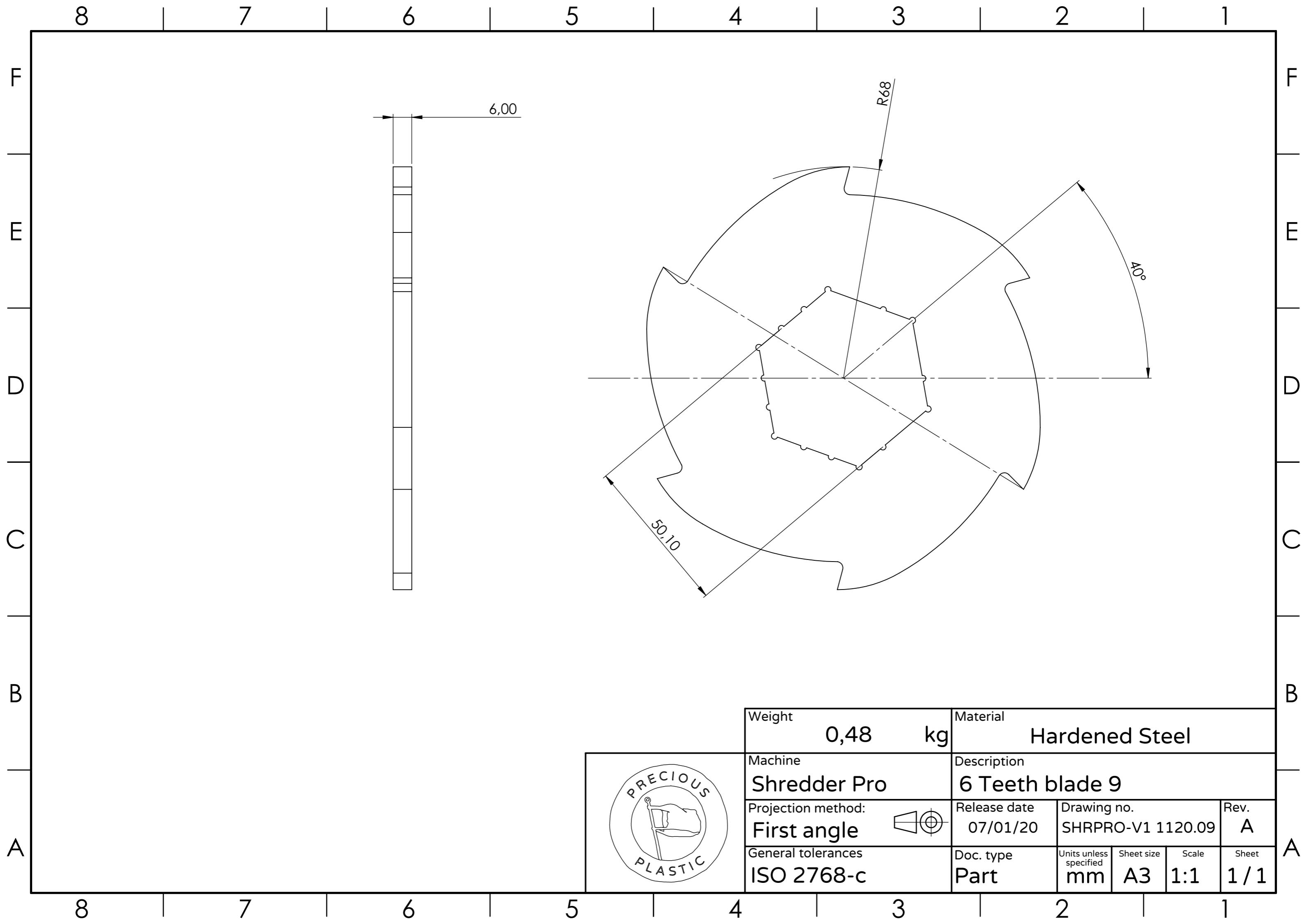


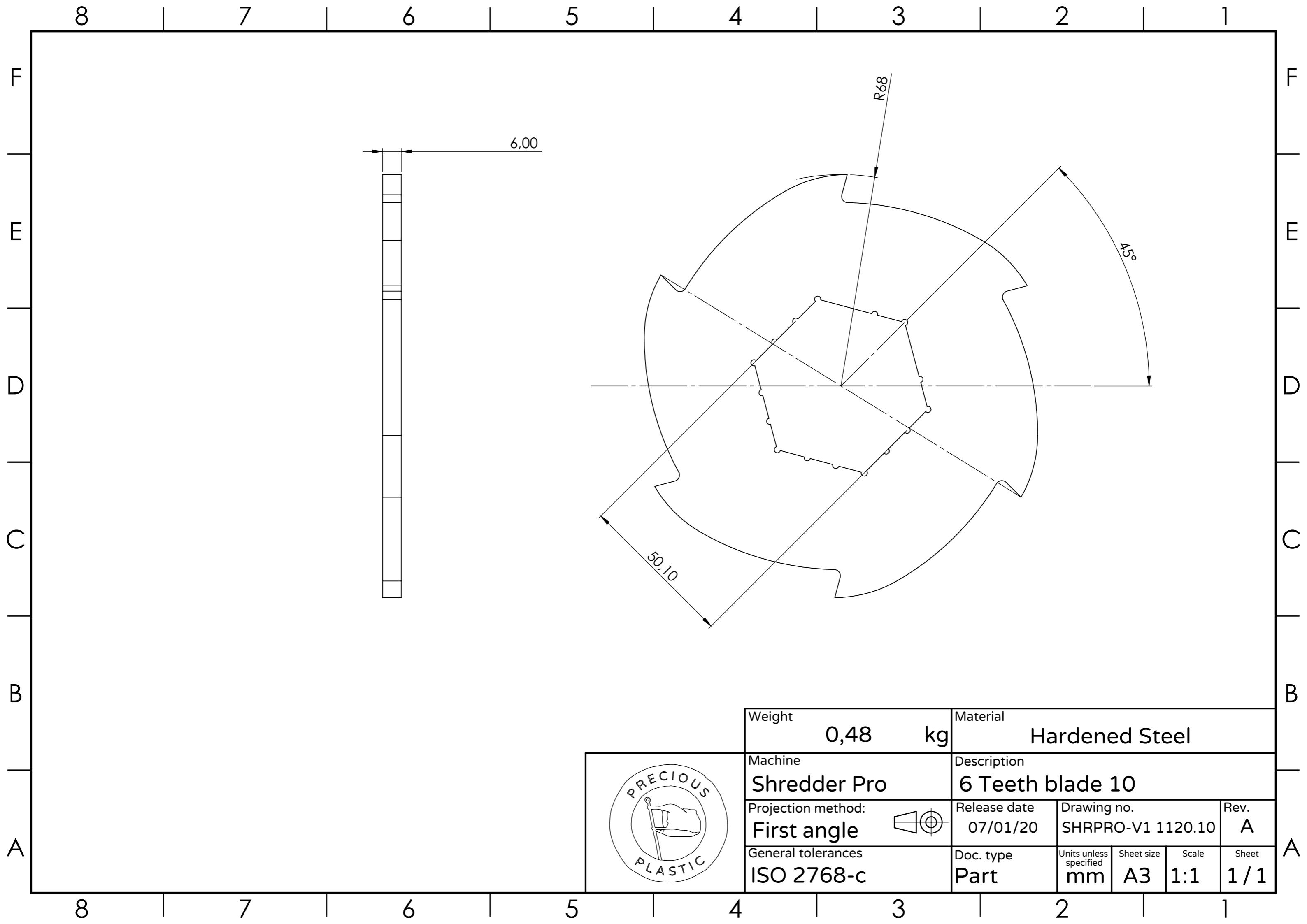


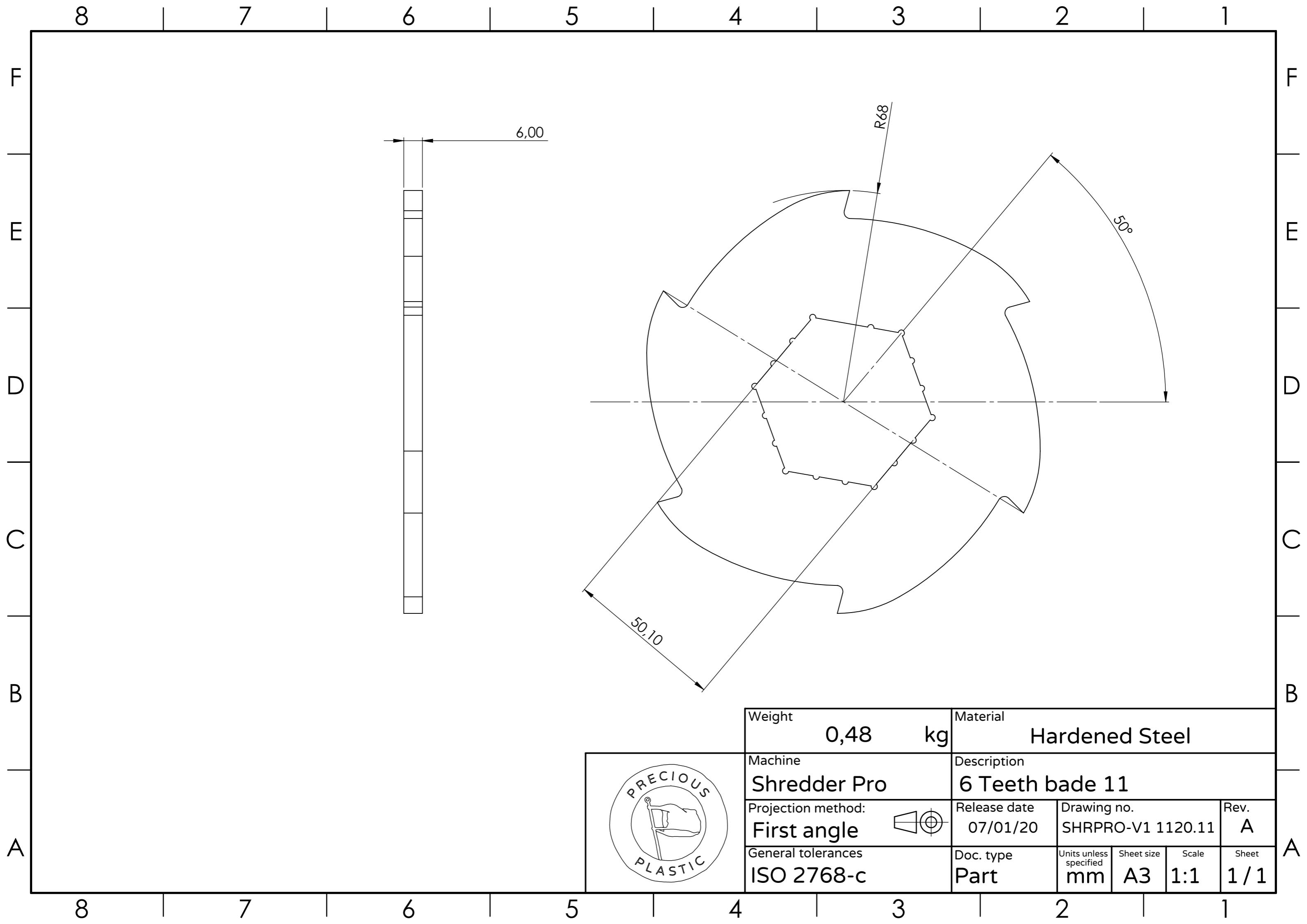


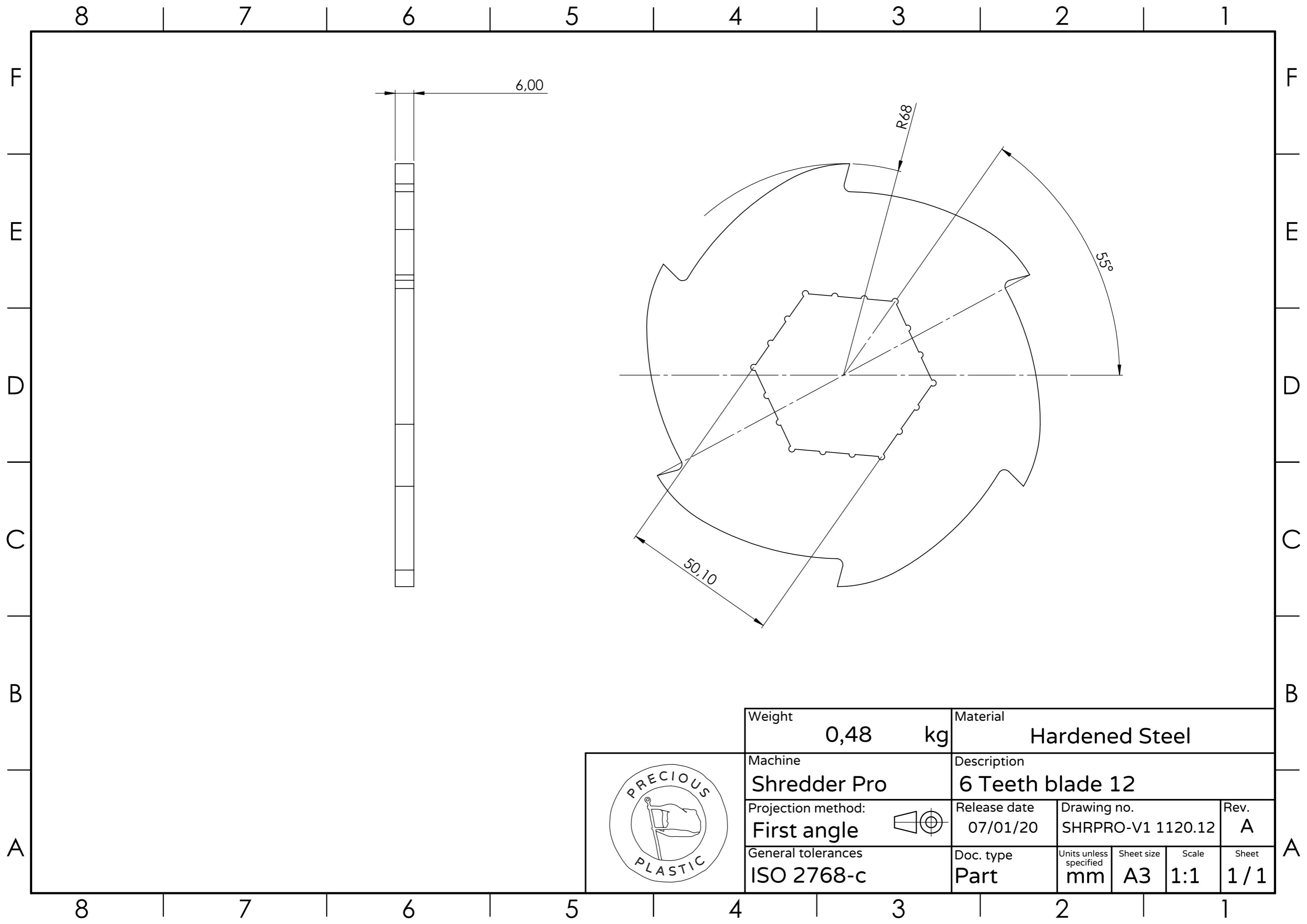


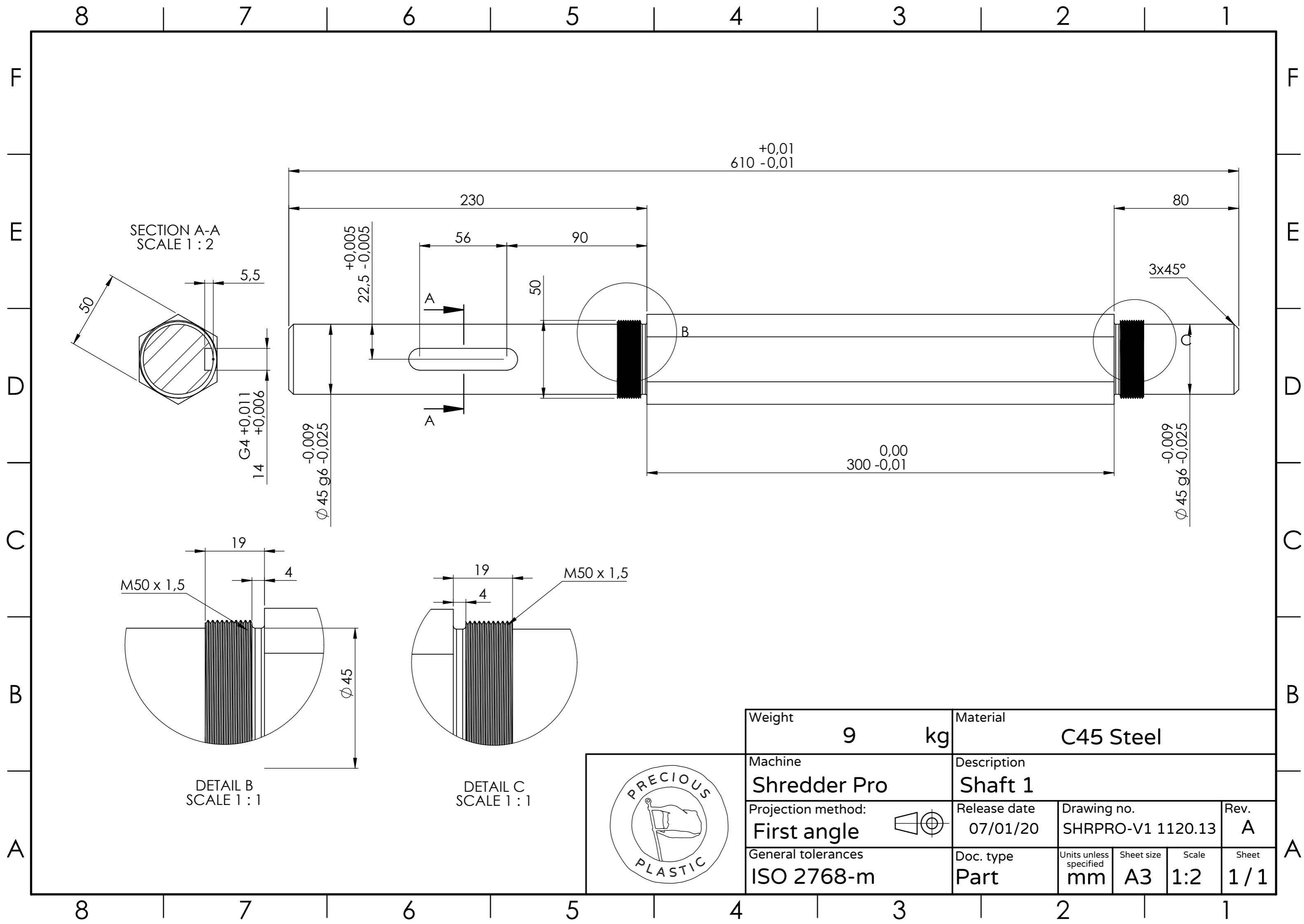


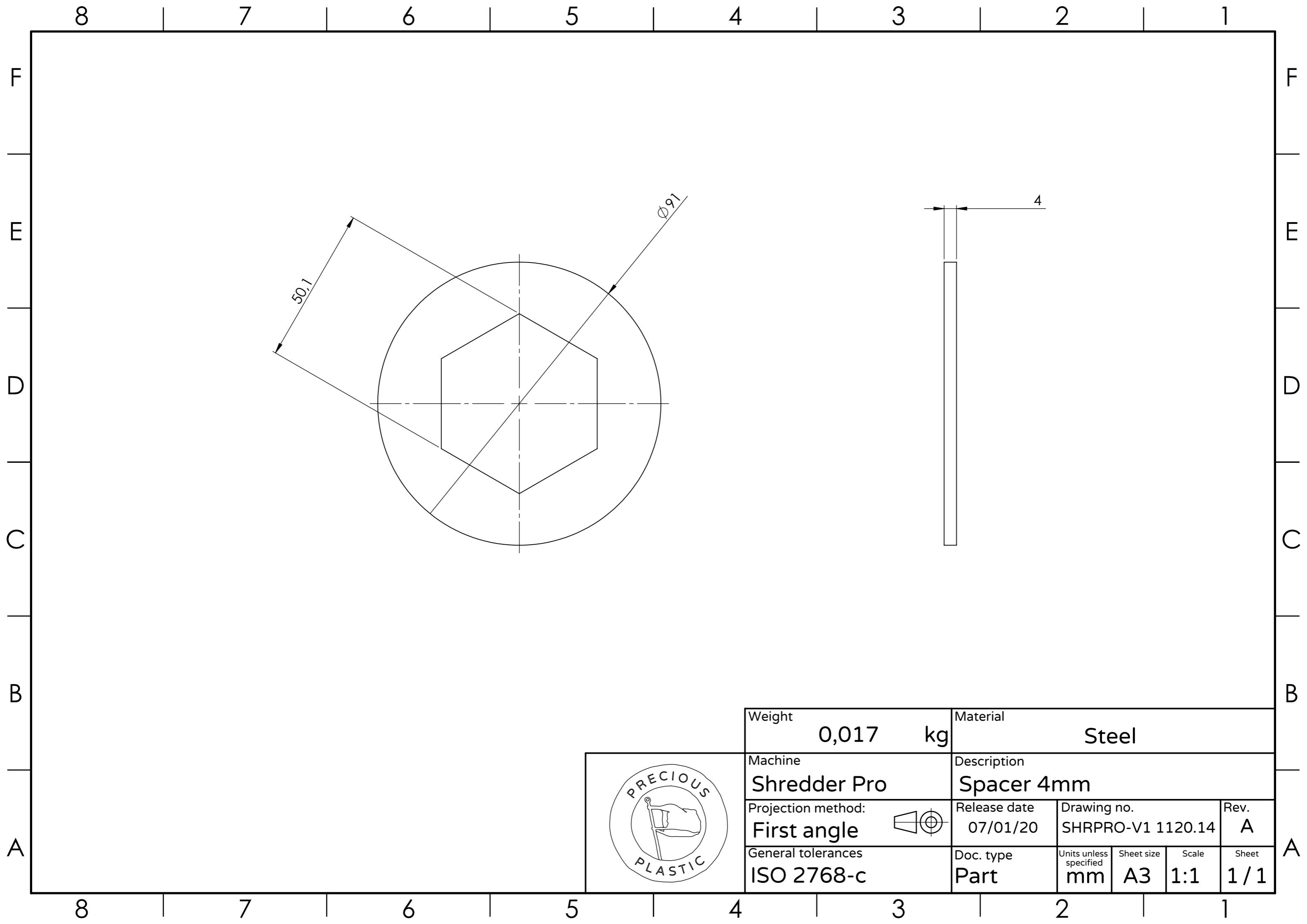


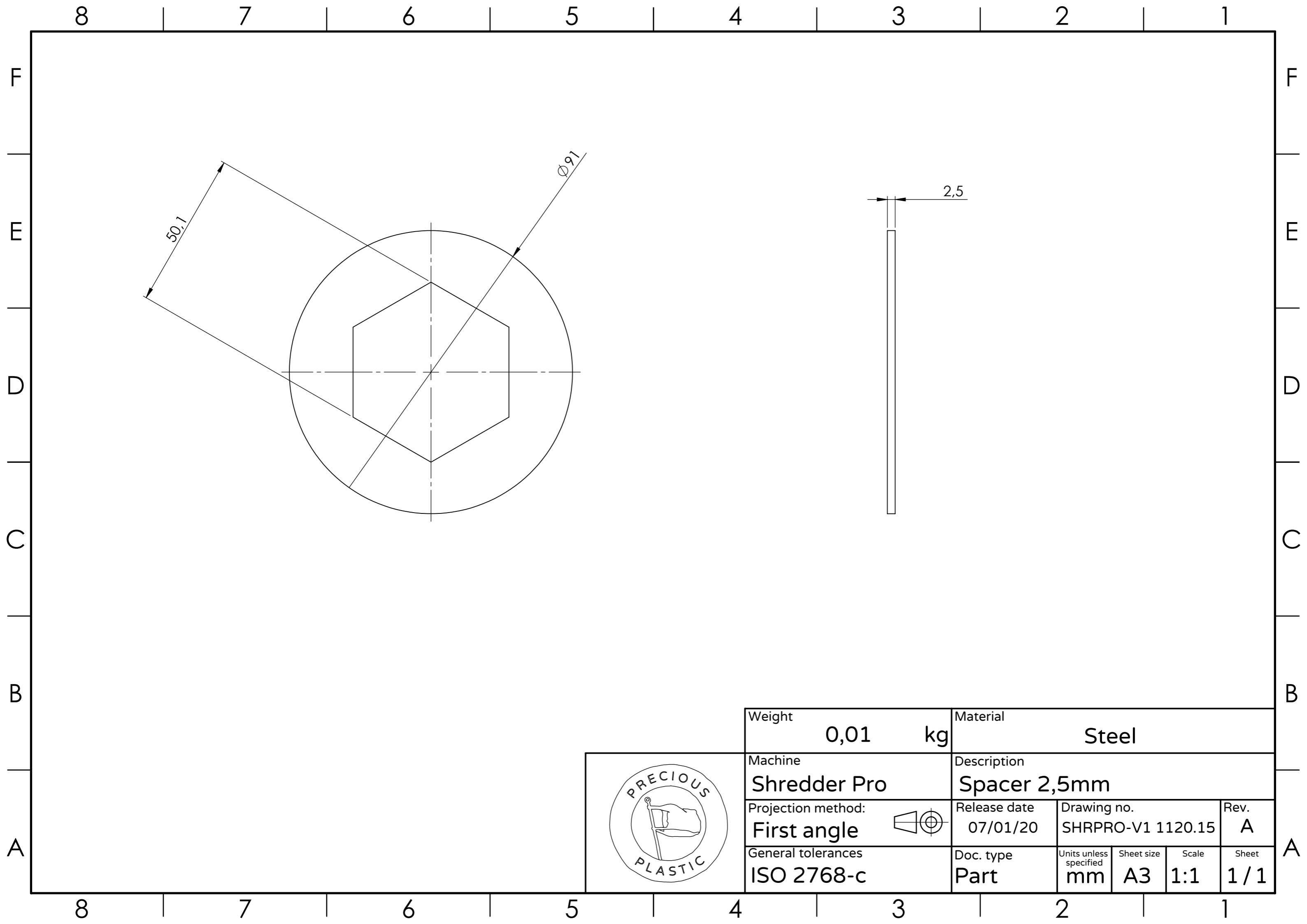








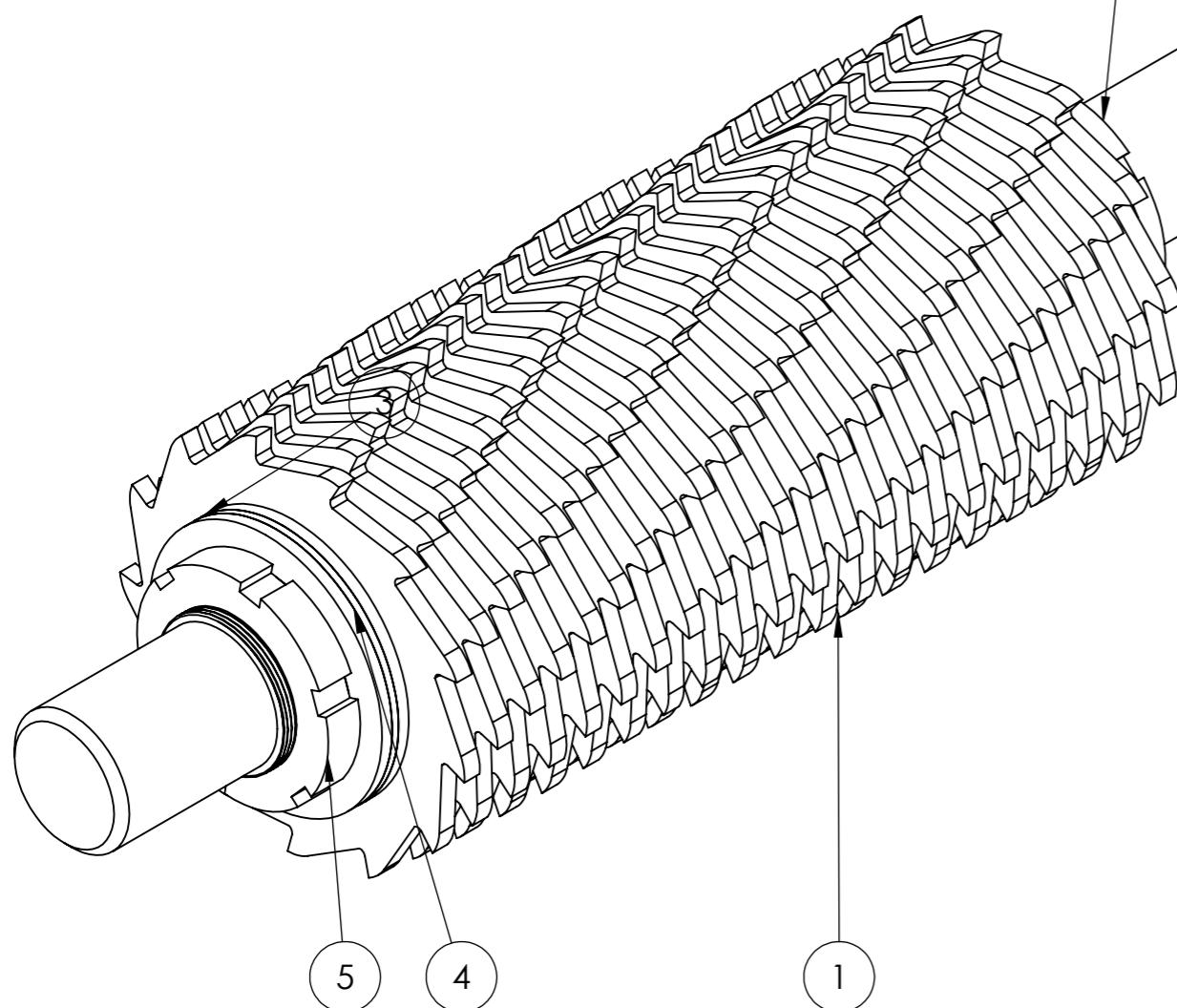




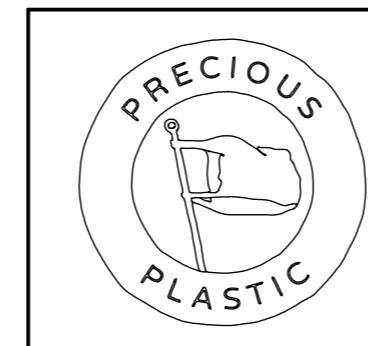
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F E D C B A

F E D C B A



ITEM NO.	PART NUMBER	QTY.
5	SHRPRO-V1 DIN 1804 M50x1,5 Slotted round nut	2
4	SHRPRO-V1 1120.15-A Spacer 2,5mm	24
3	SHRPRO-V1 1120.14-A Spacer 4mm	26
2	SHRPRO-V1 1130.02-A Shaft 2	1
1	13 Blade	23



Machine
Shredder PRO

Projection method:
First angle

General tolerances
ISO 2768-c

Description
Shaft 2 assembly

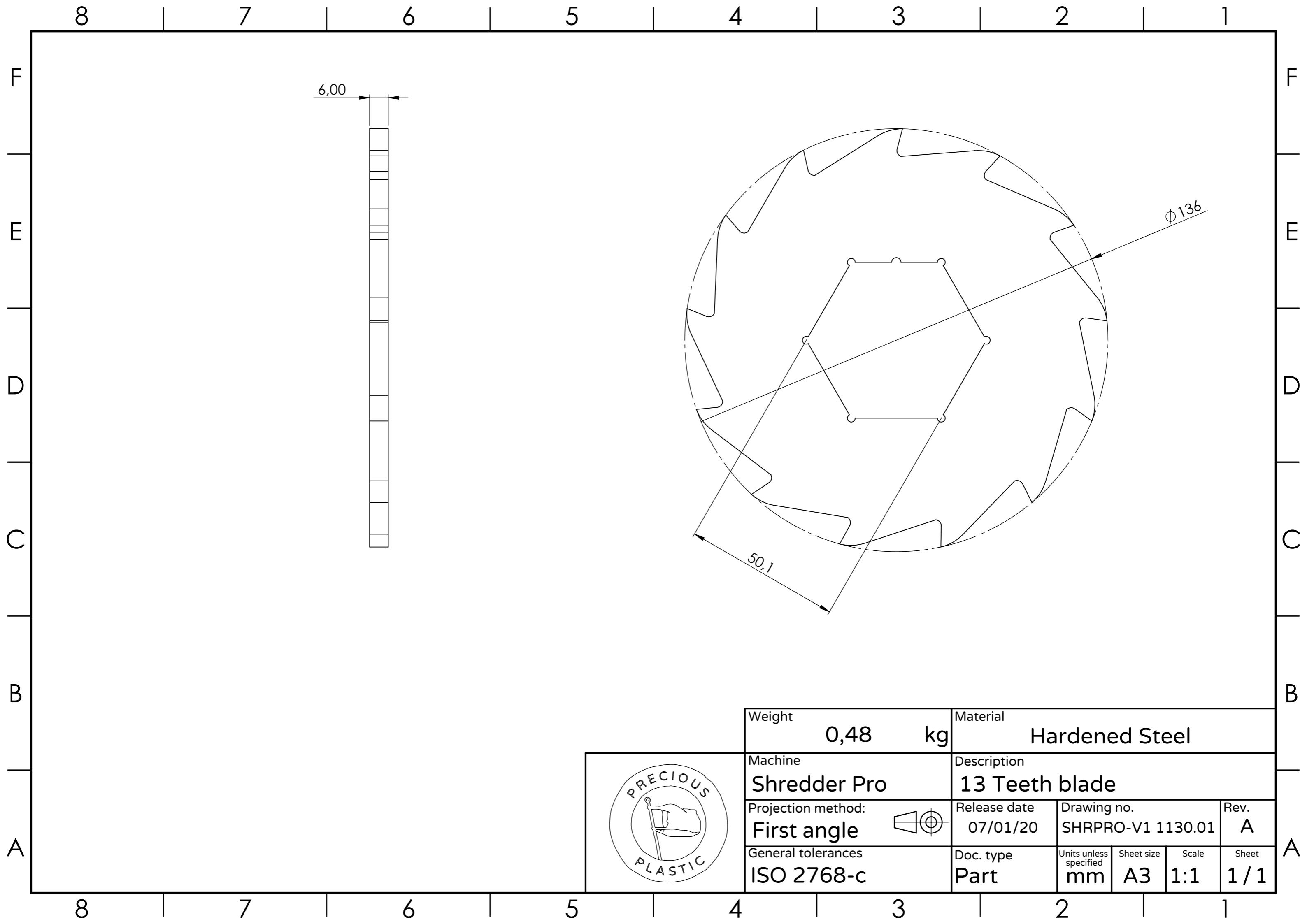
Release date
07/01/20

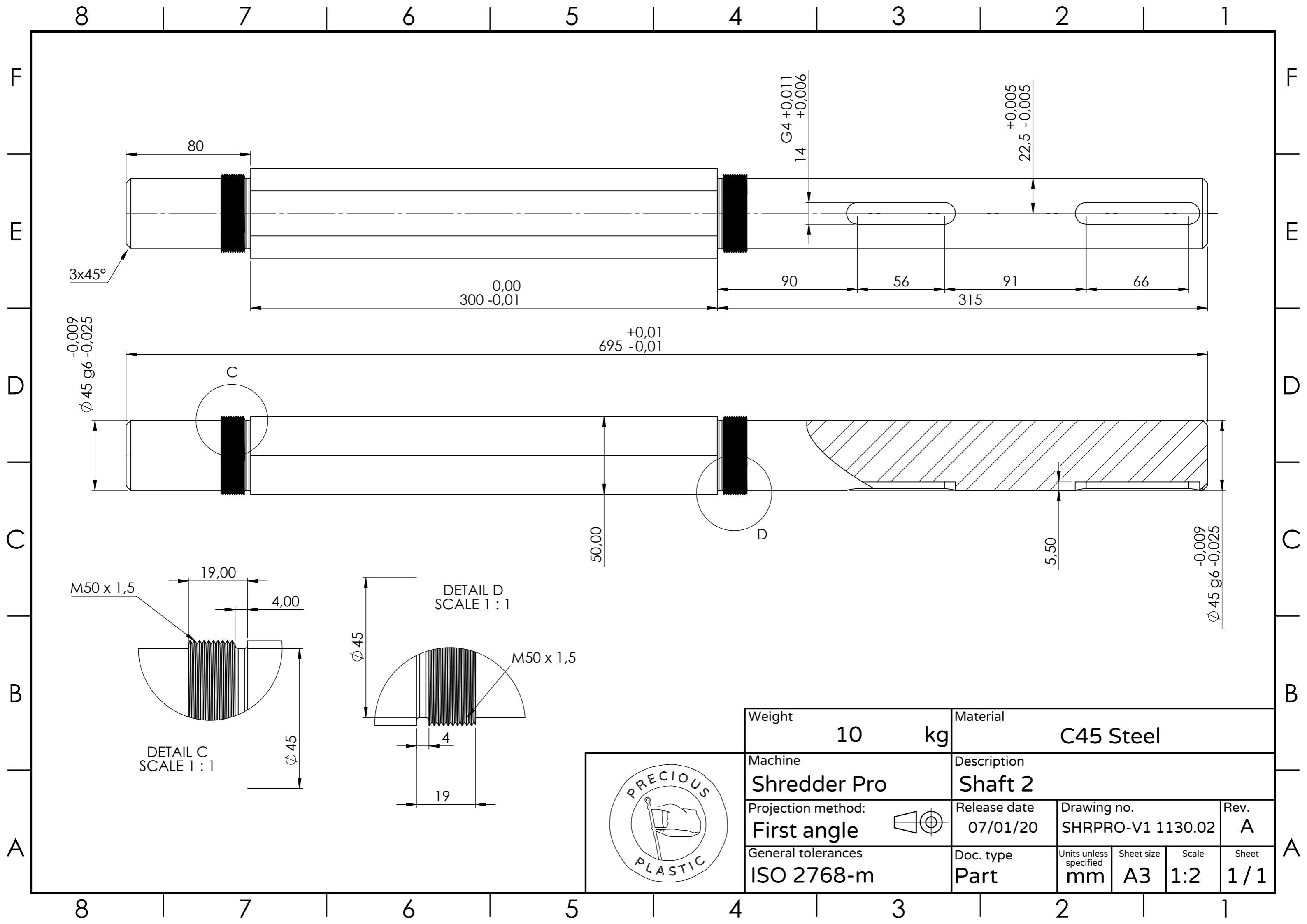
Drawing no.
SHRPRO-V1 1130.00

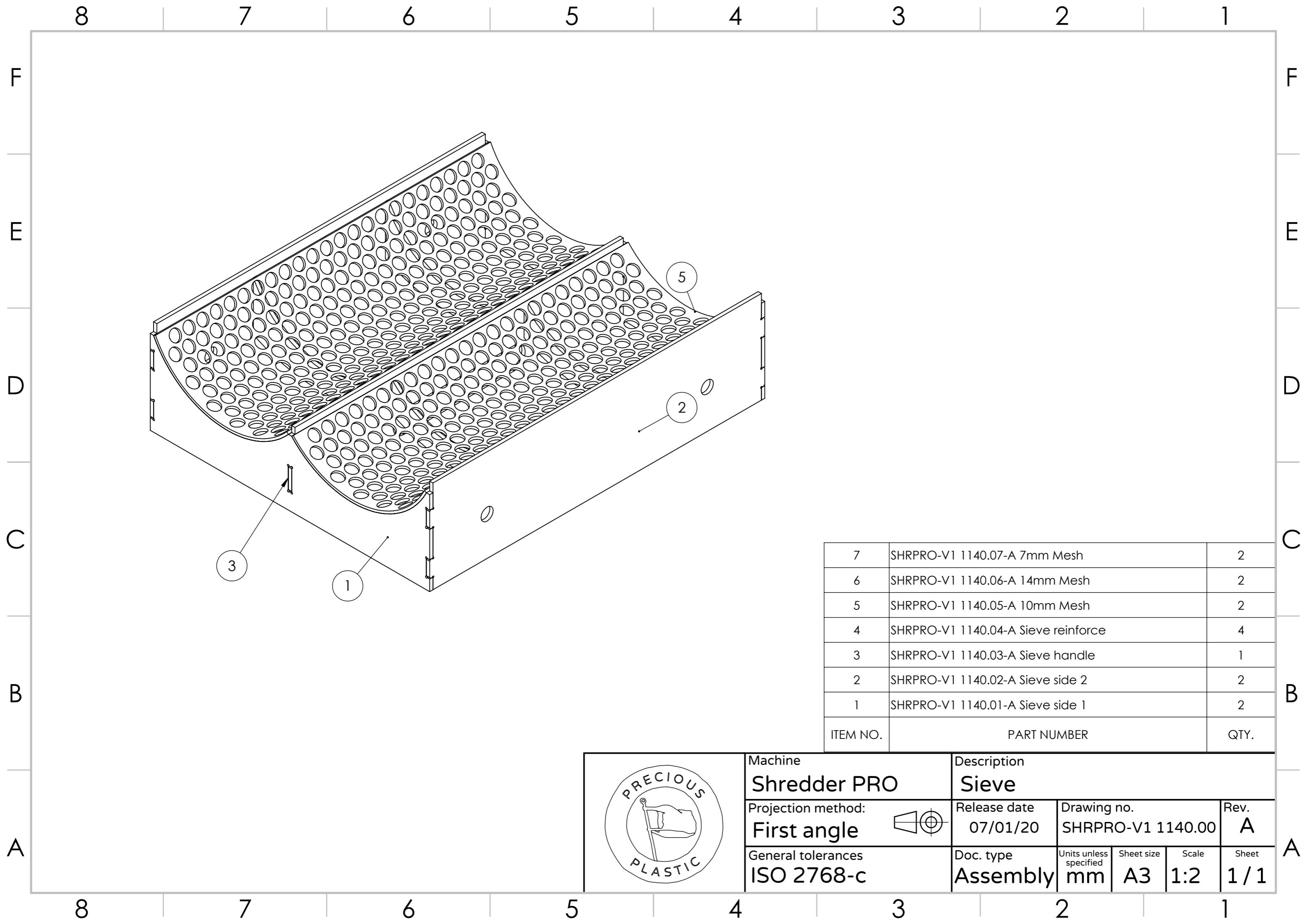
Rev.
A

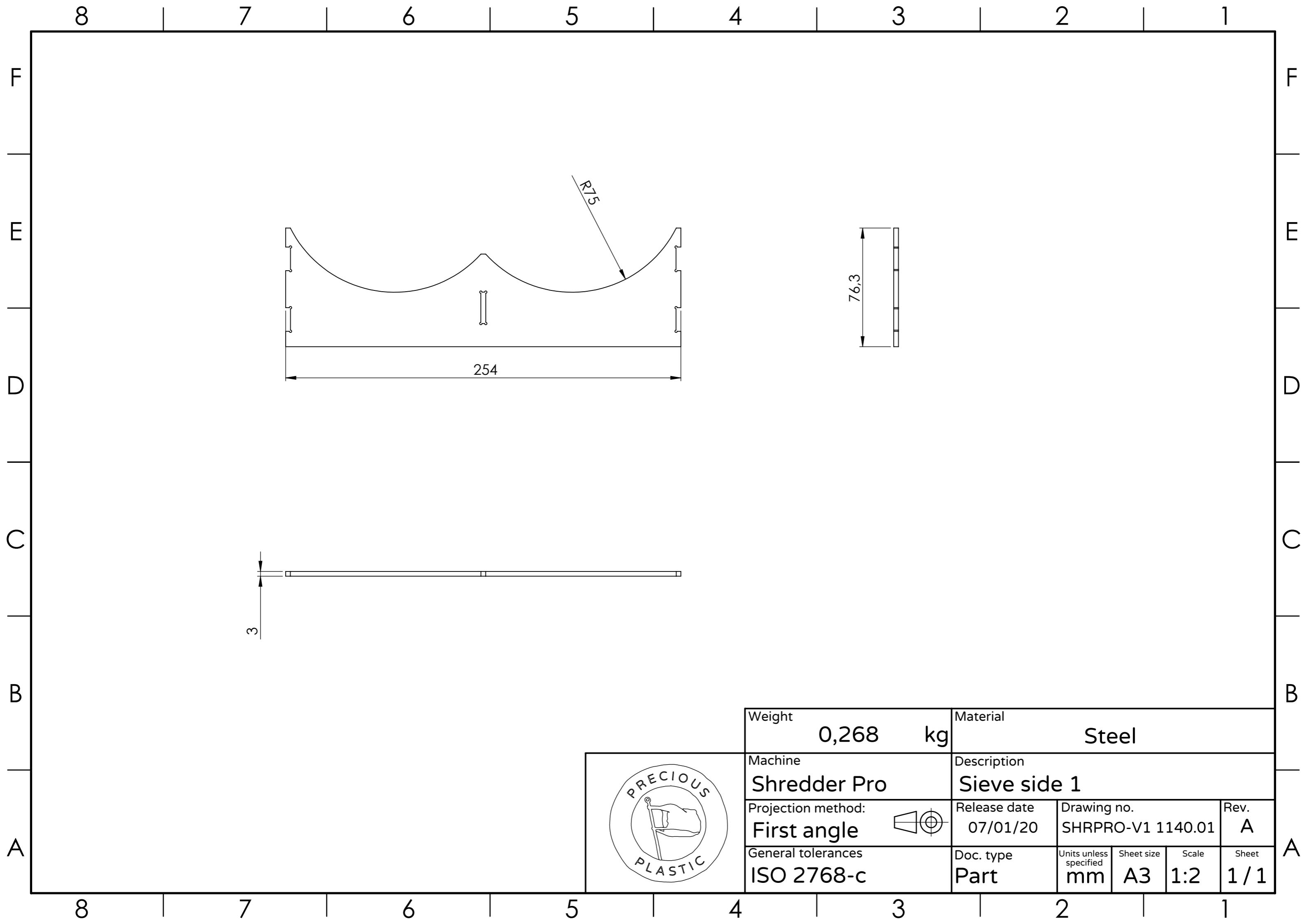
Doc. type Assembly	Units unless specified mm	Sheet size A3	Scale 1:2	Sheet 1 / 1
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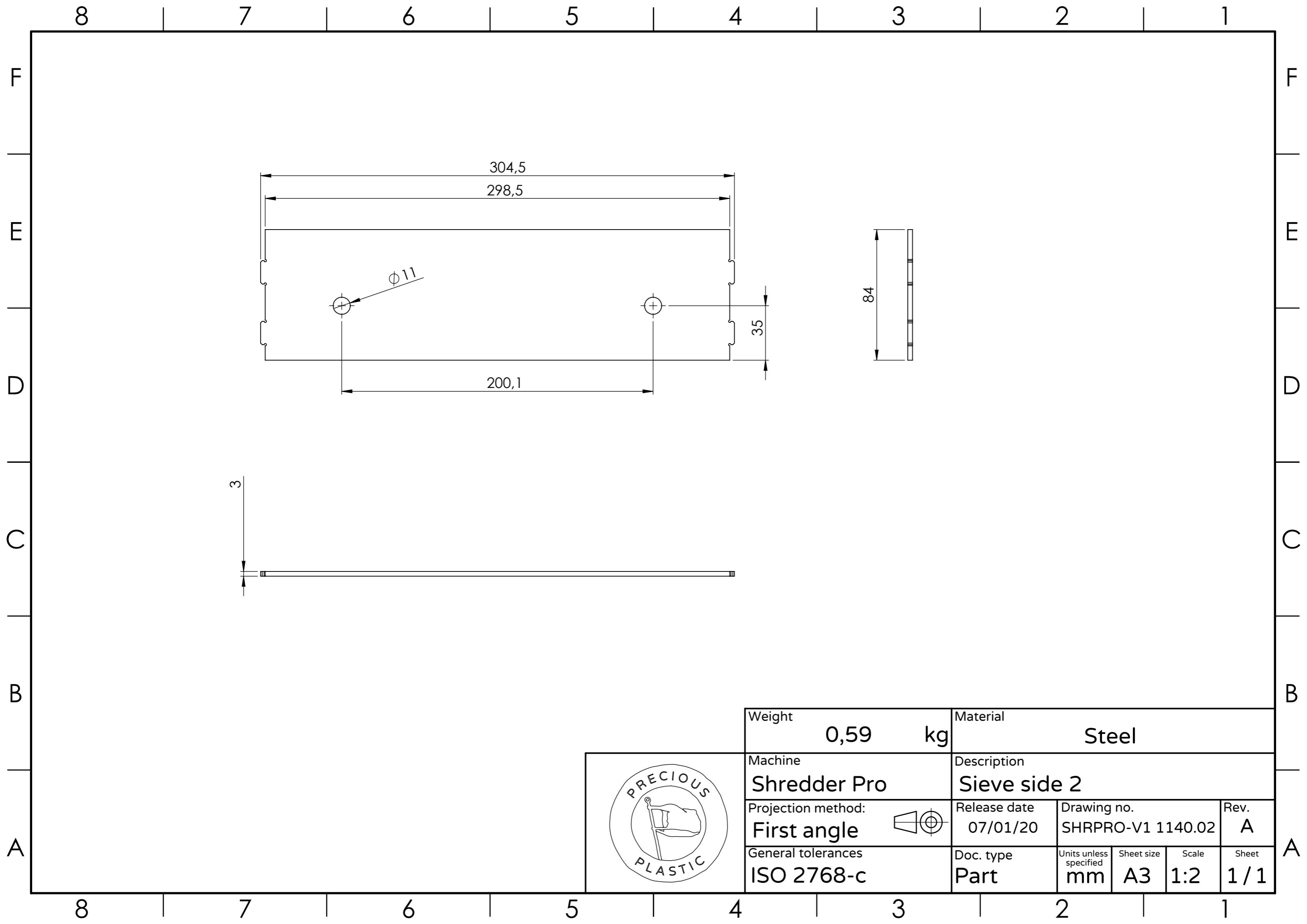
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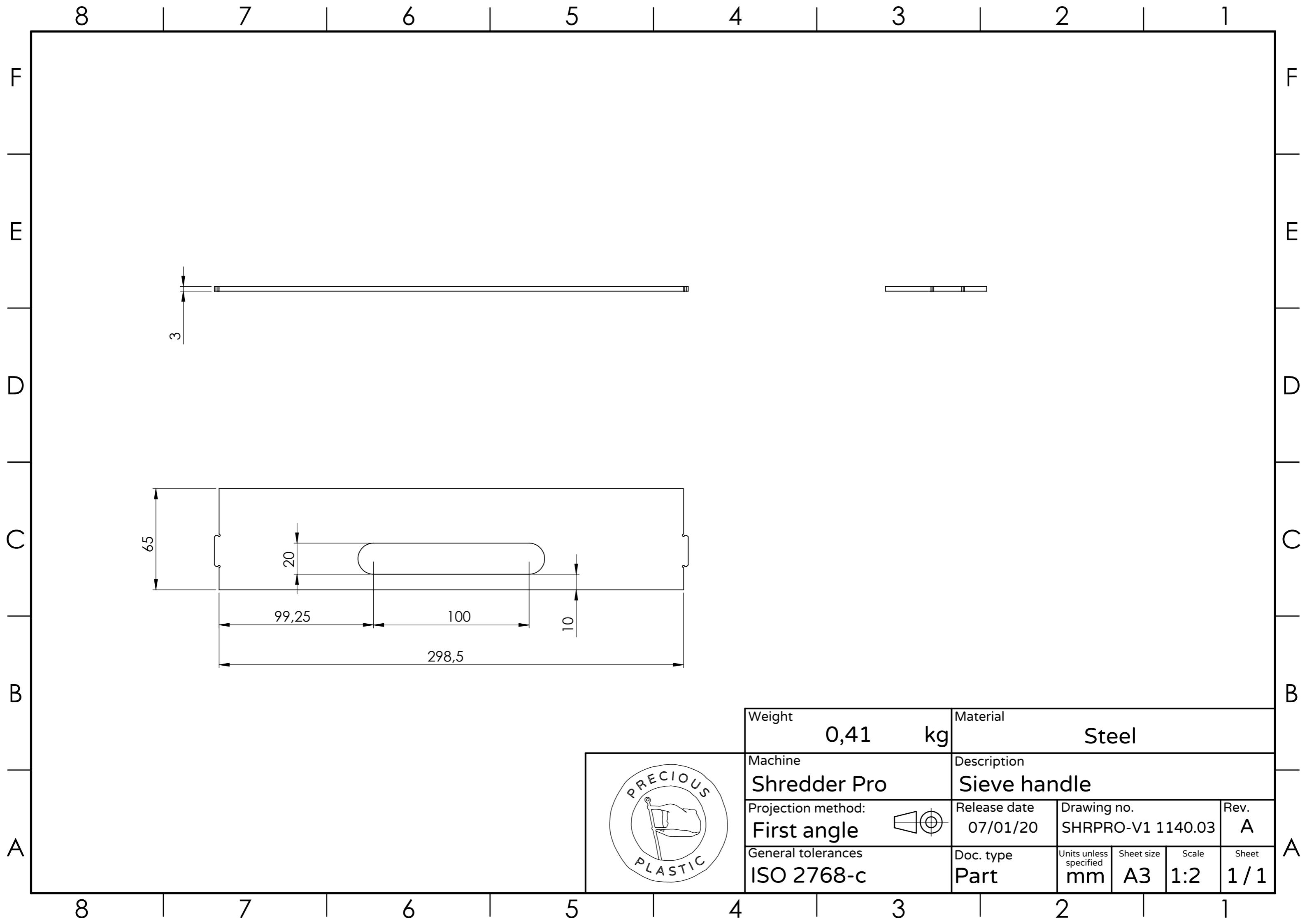


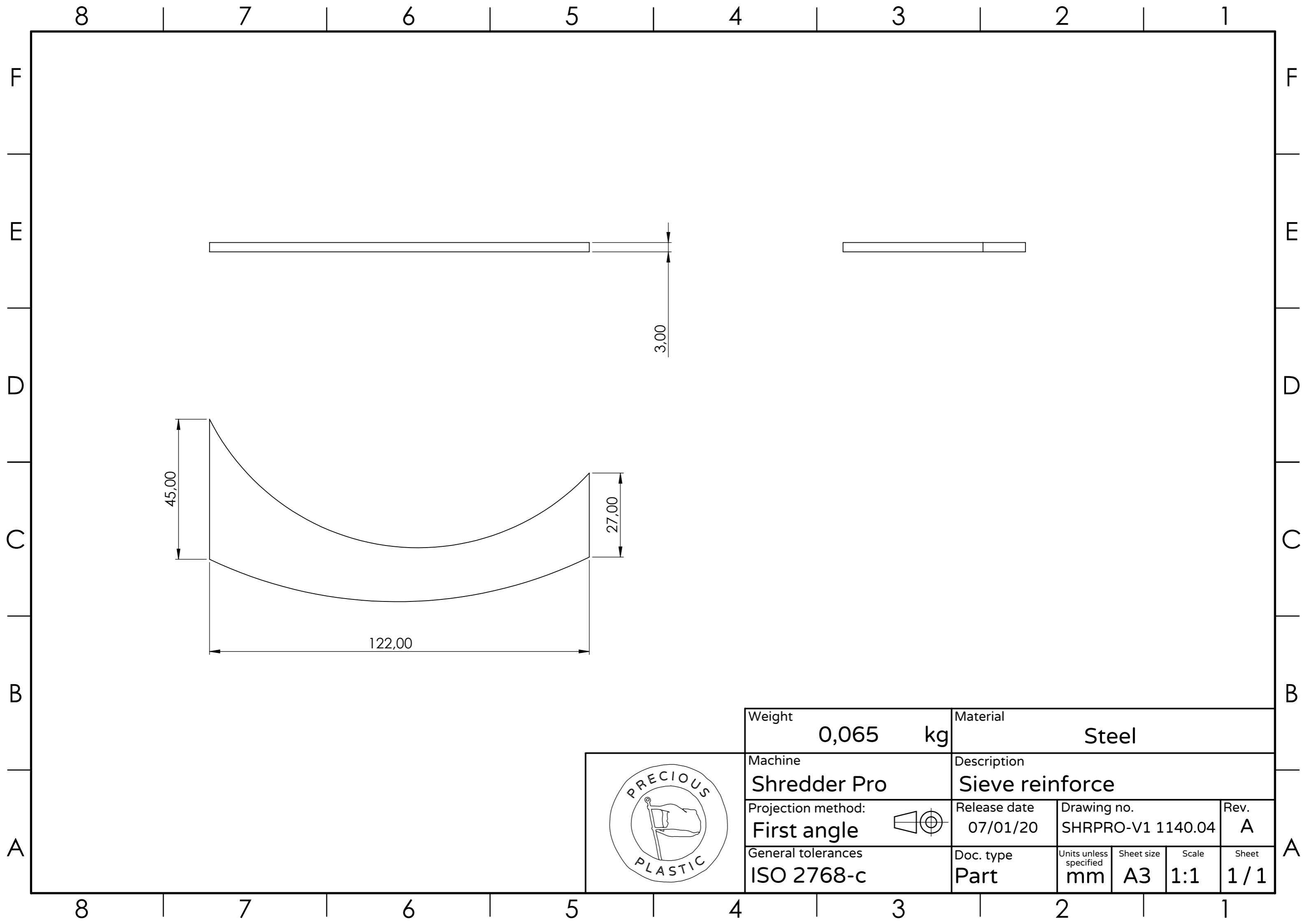


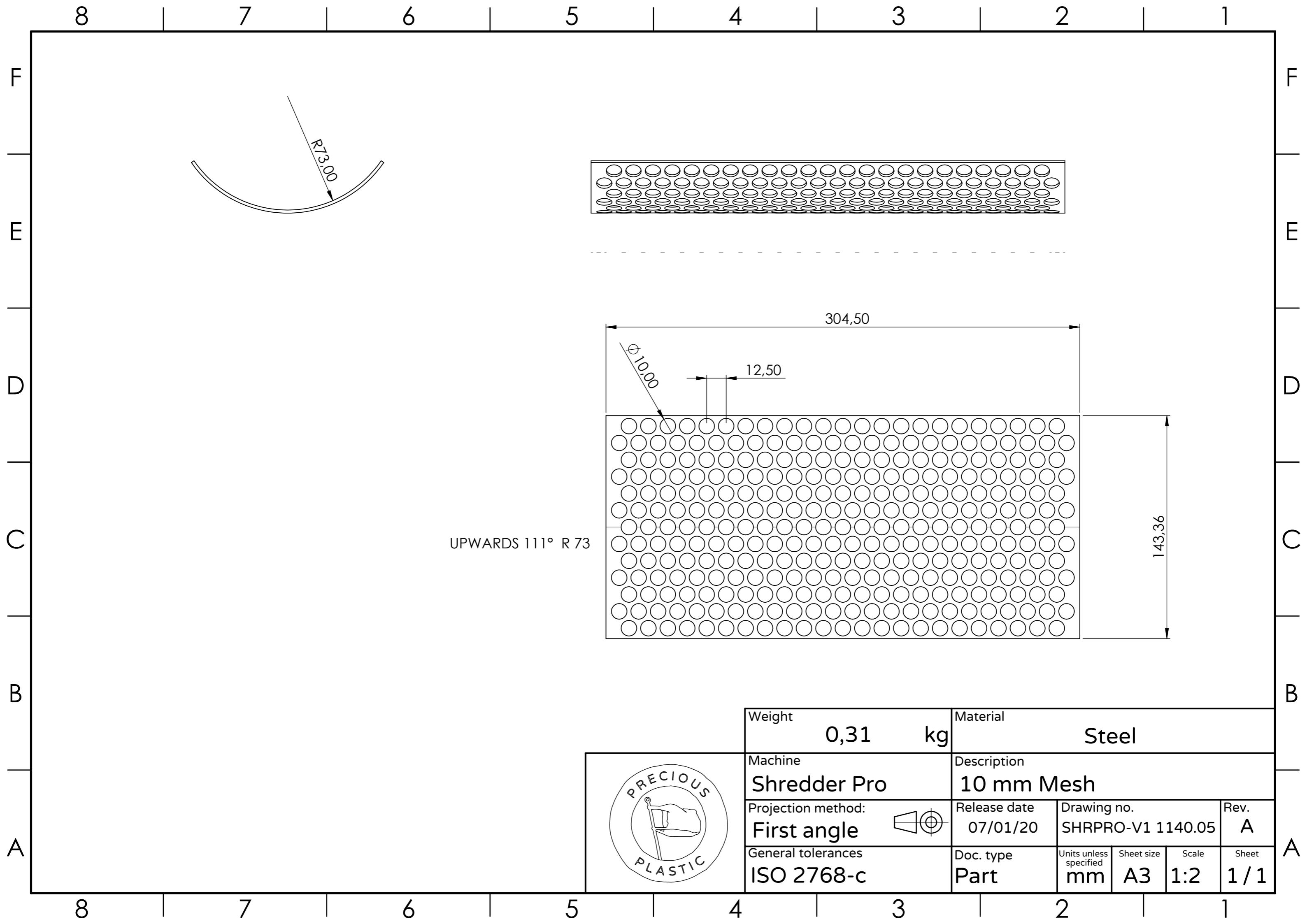


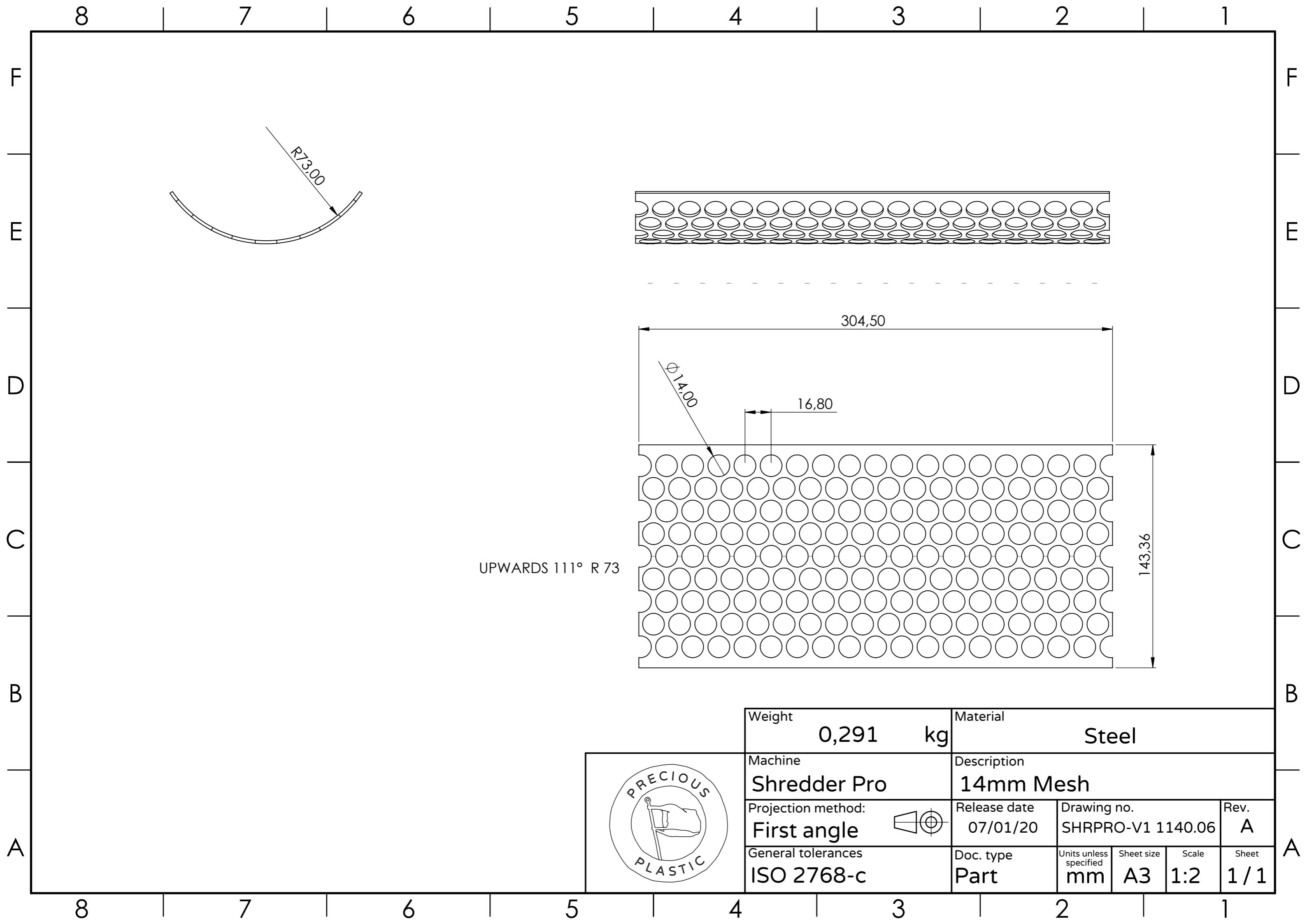


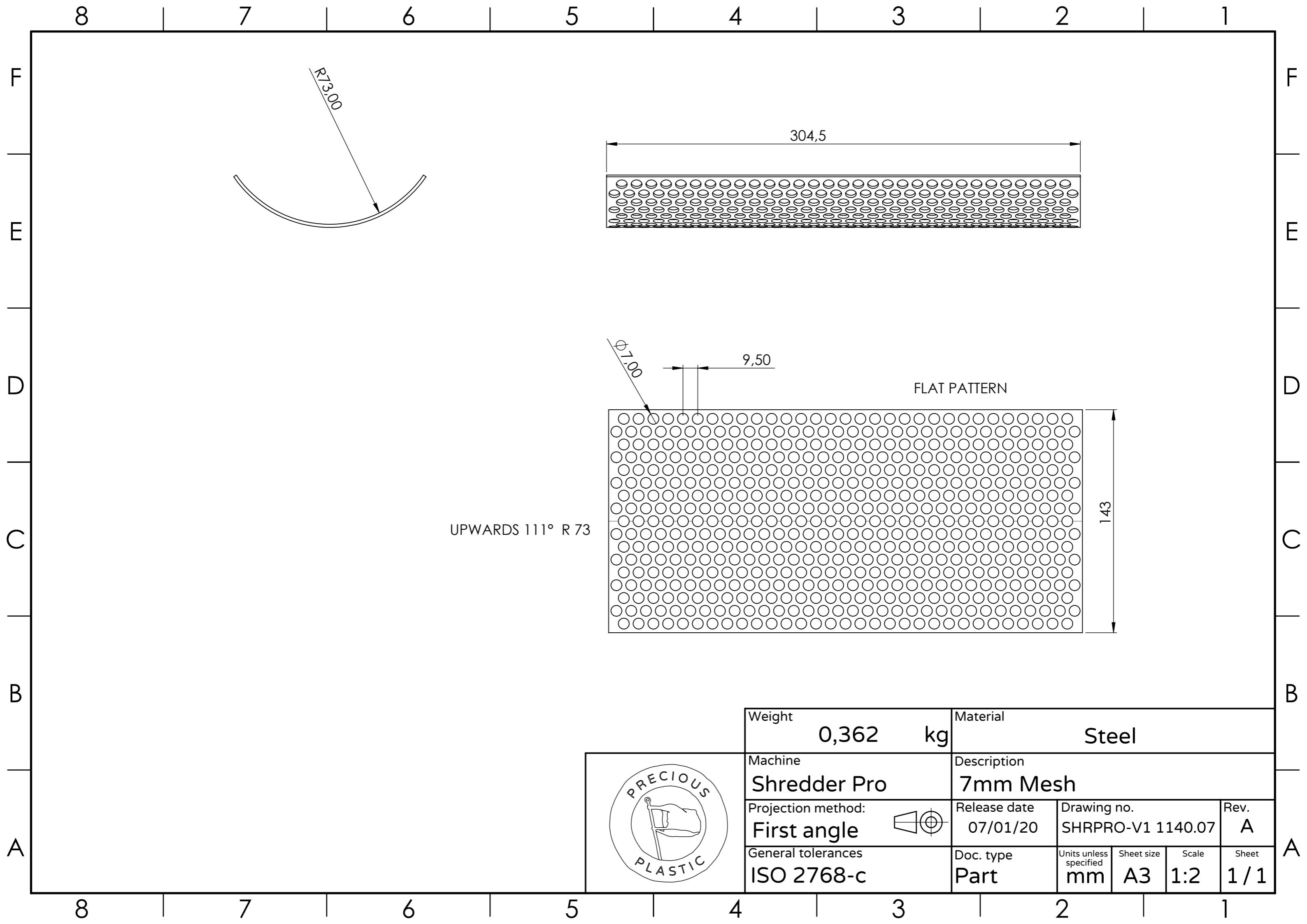


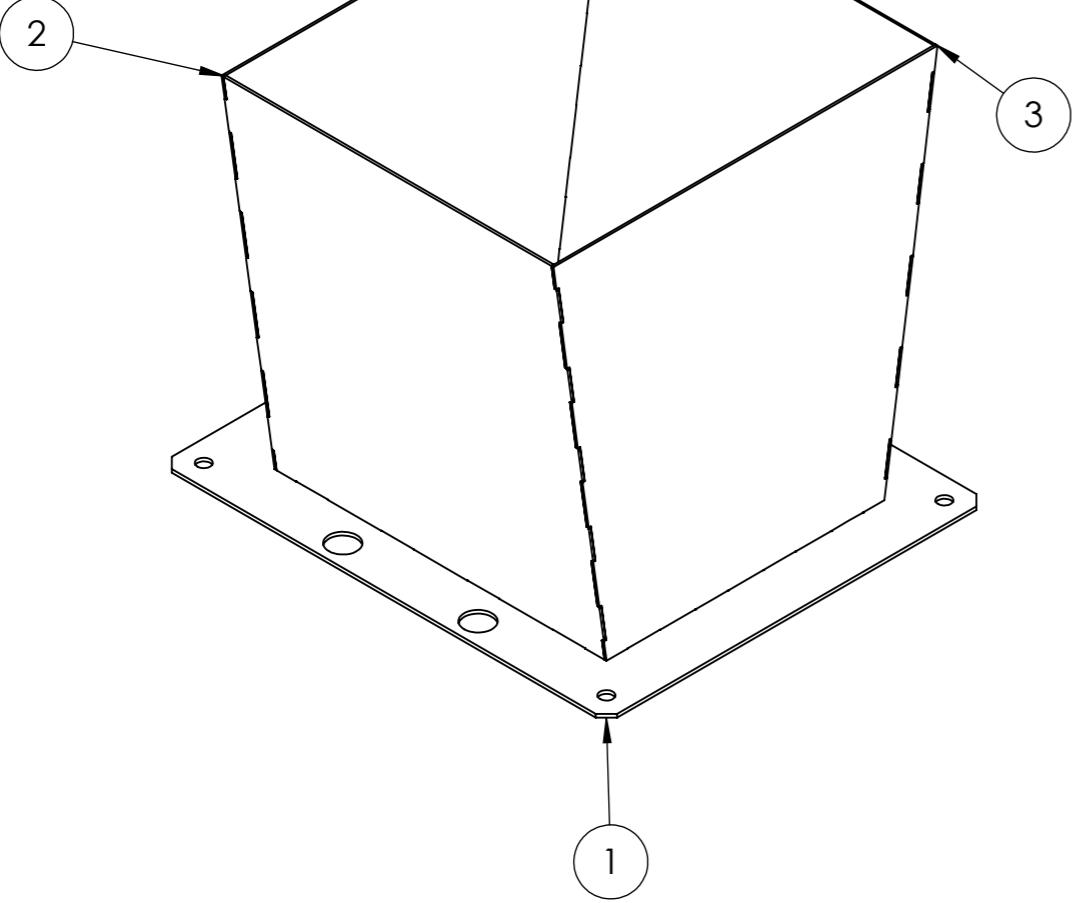




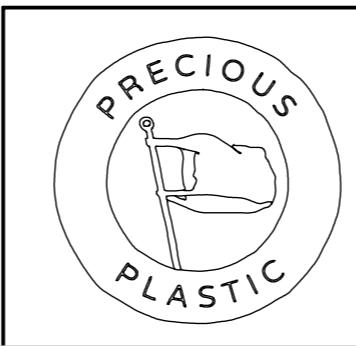




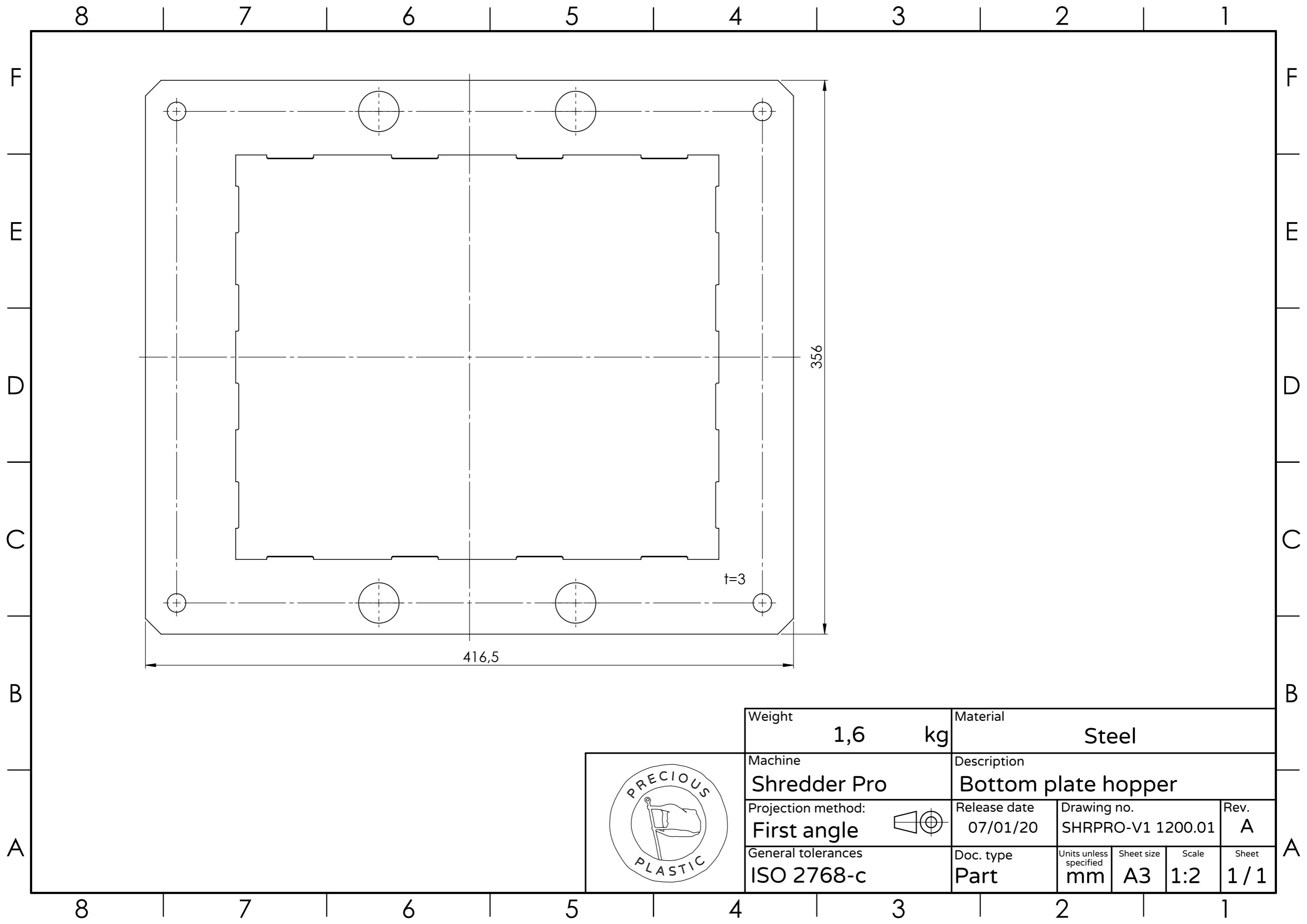


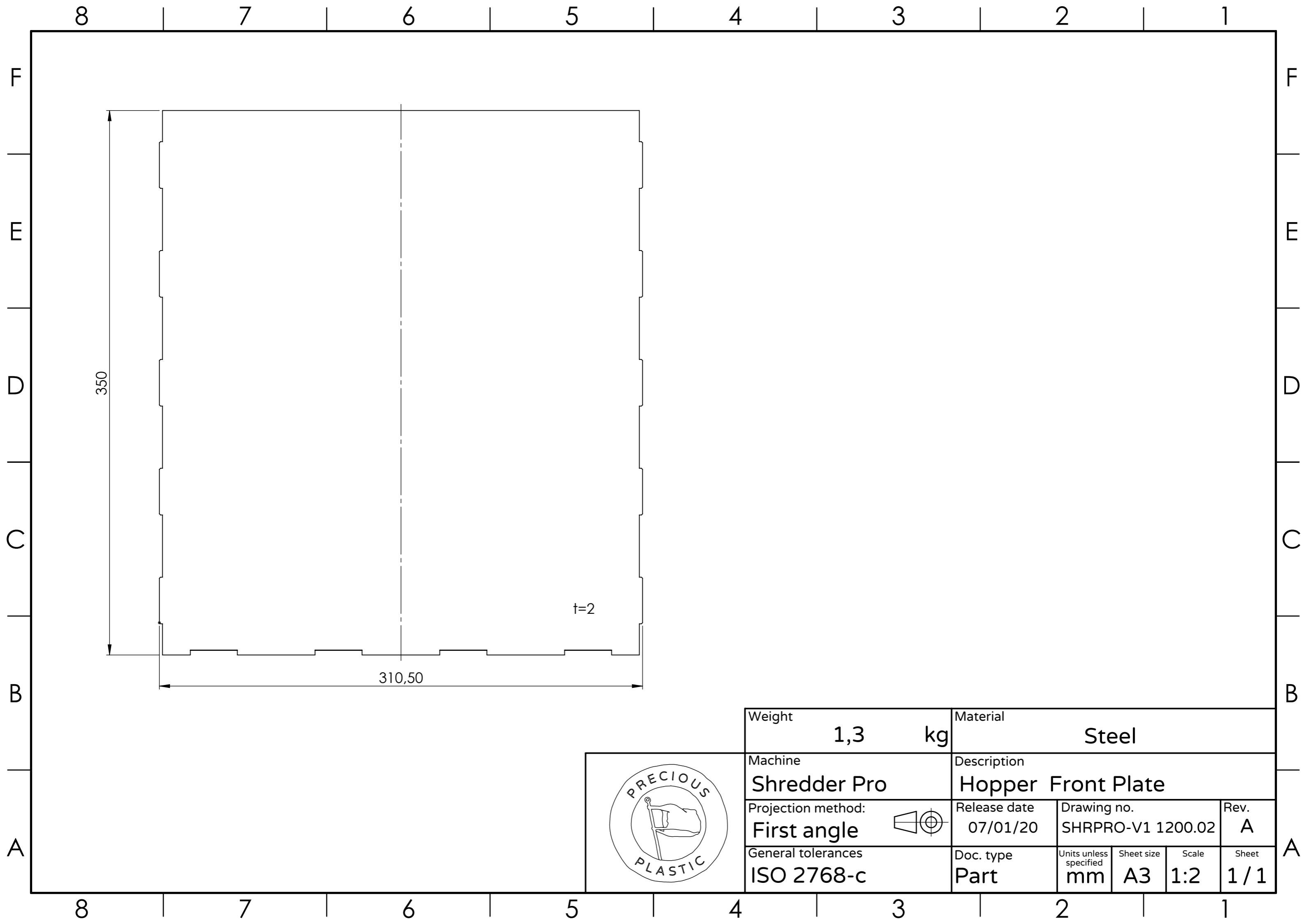


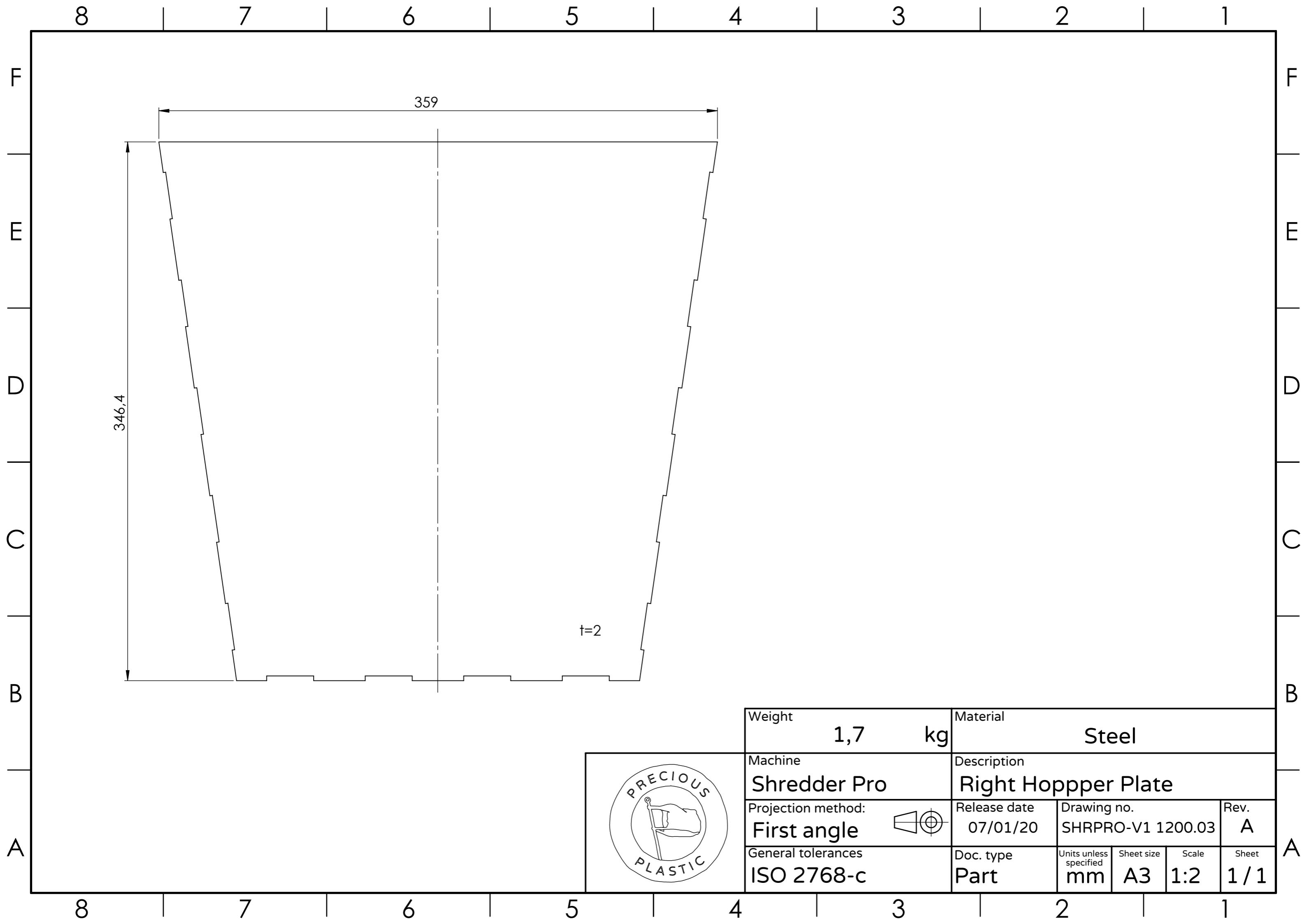
ITEM NO.	PART NUMBER	QTY.
3	SHRPRO-V1 1200.03-A Right plate hopper	2
2	SHRPRO-V1 1200.02-A Front plate hopper	2
1	SHRPRO-V1 1200.01-A Bottom plate hopper	1

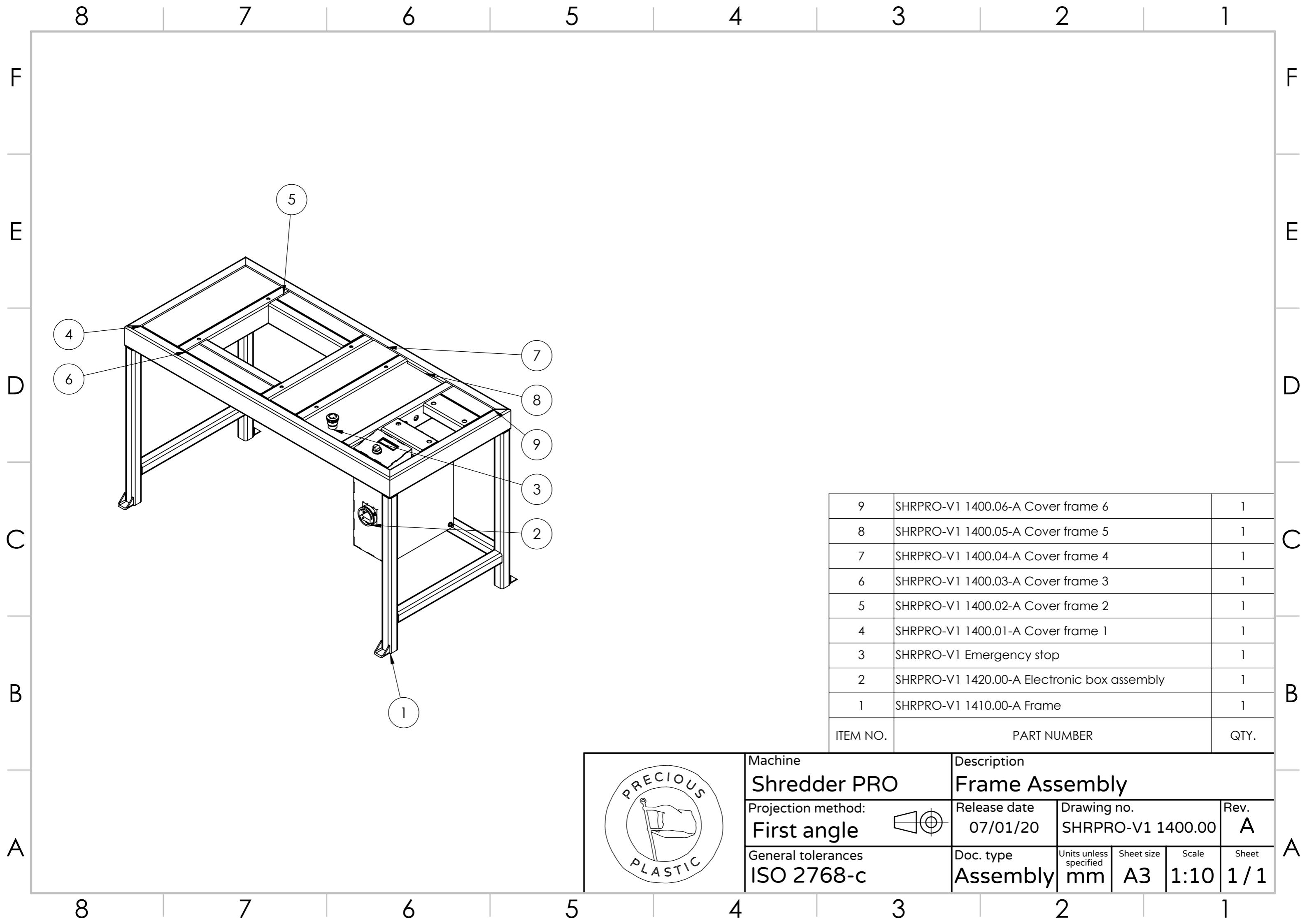


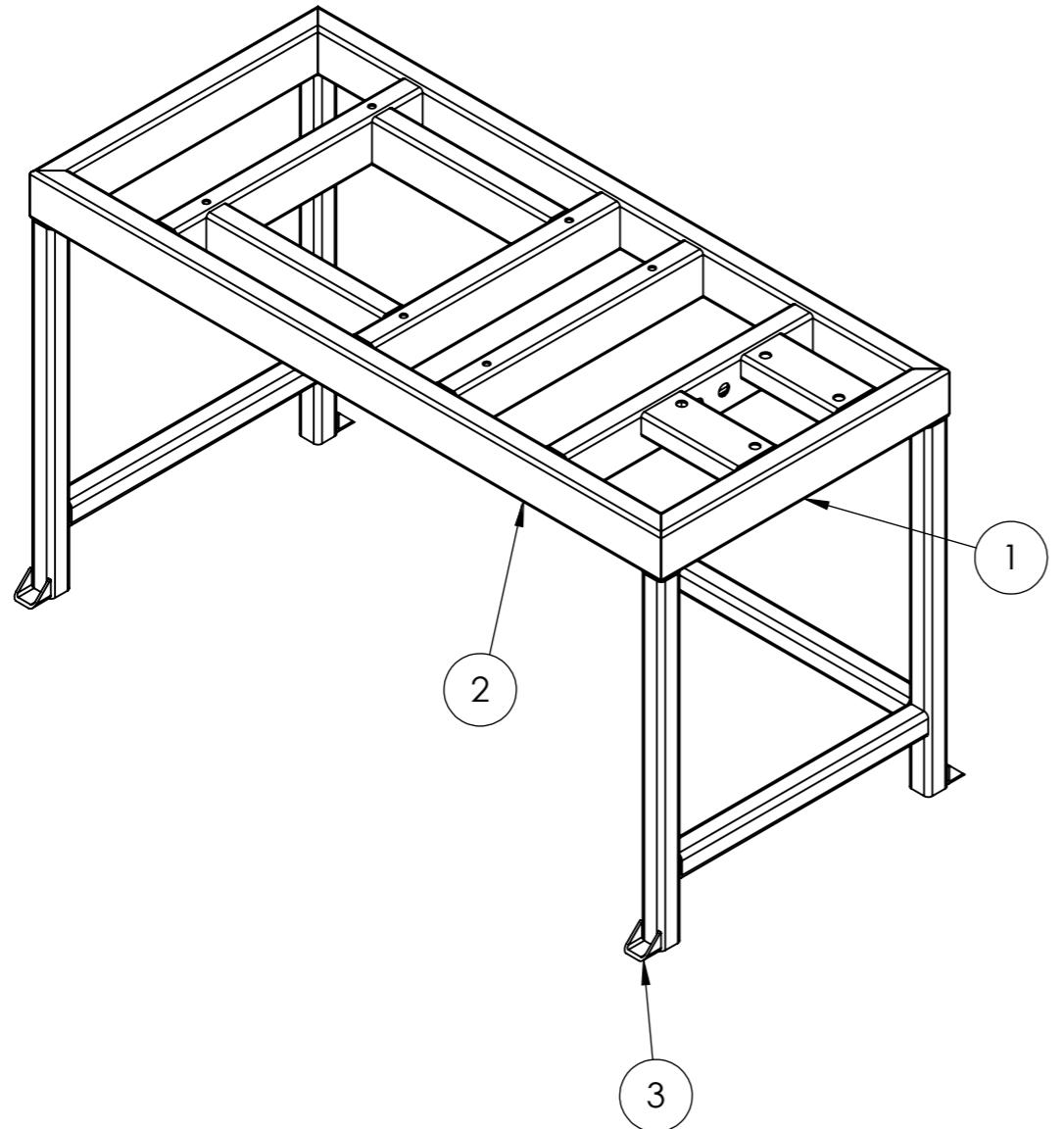
Machine Shredder PRO	Description Basic Hopper assembly	
Projection method: First angle	Release date 07/01/20	Drawing no. SHRPRO-V1 1200.00
General tolerances ISO 2768-c	Doc. type Assembly	Rev. A
	Units unless specified mm	Sheet size A3
	Scale 1:5	Sheet 1 / 1



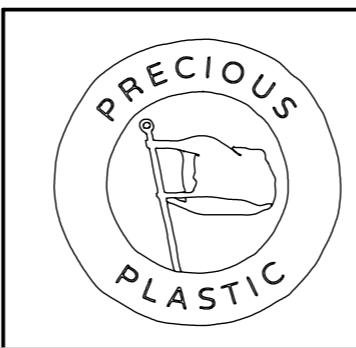




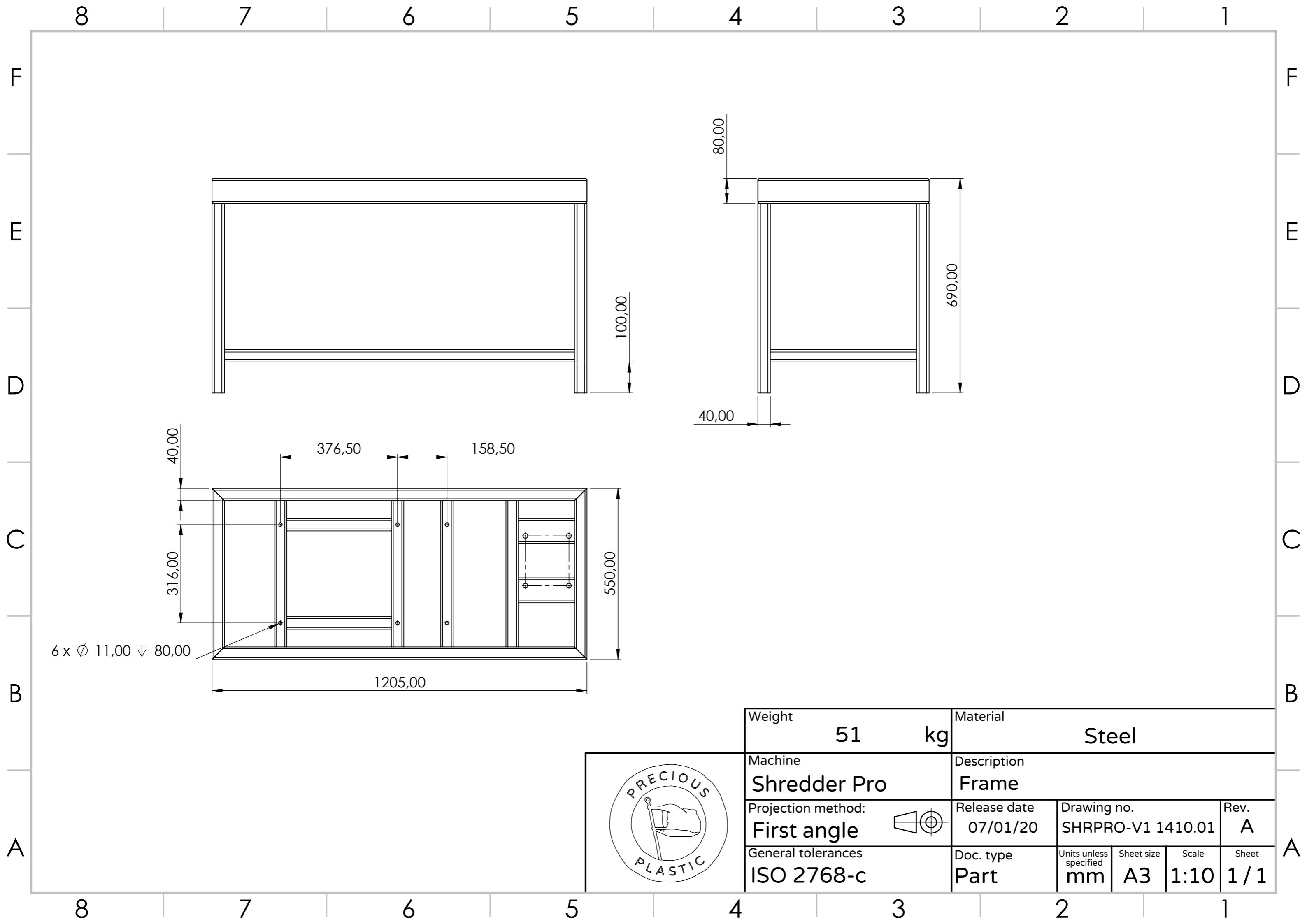


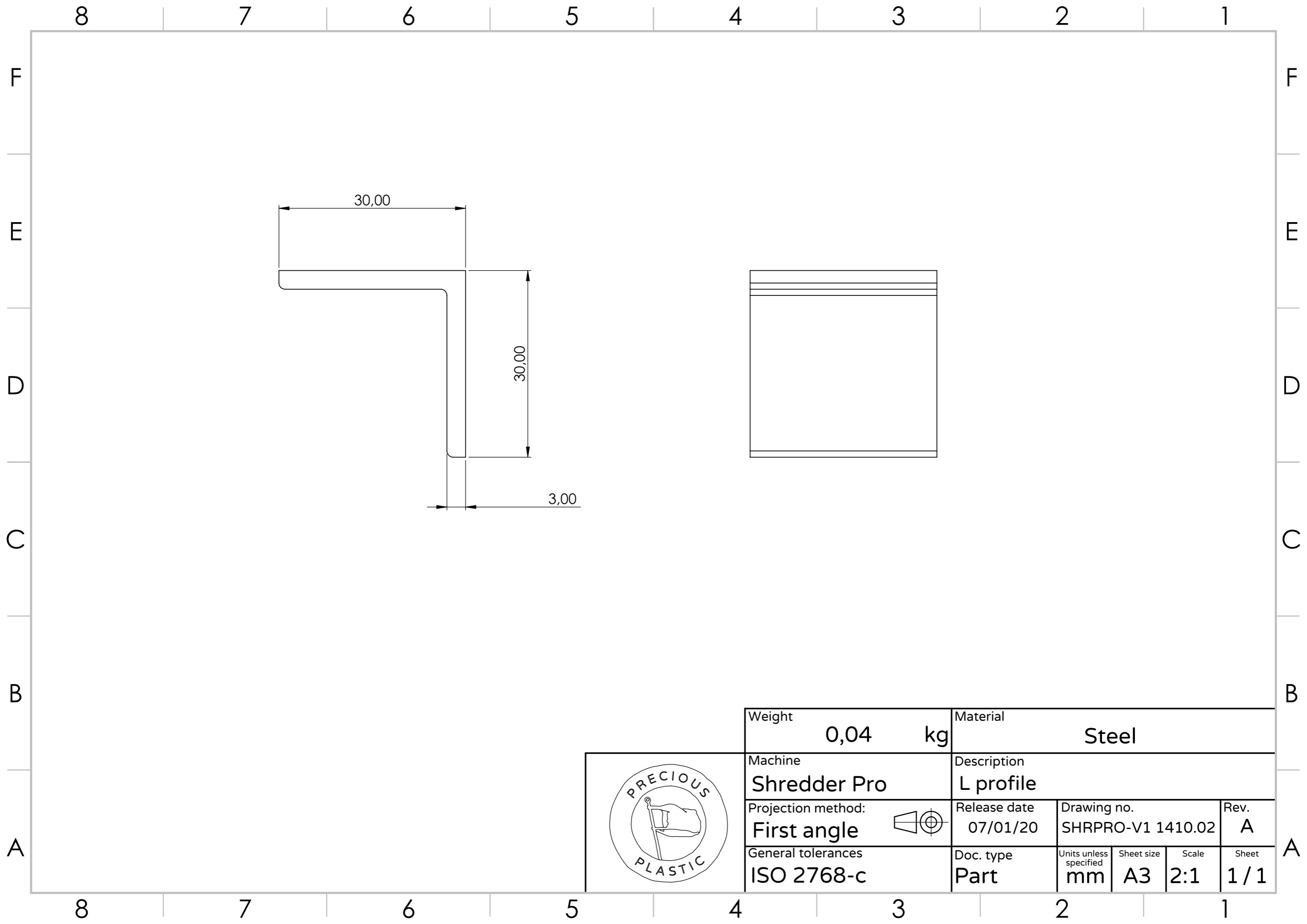


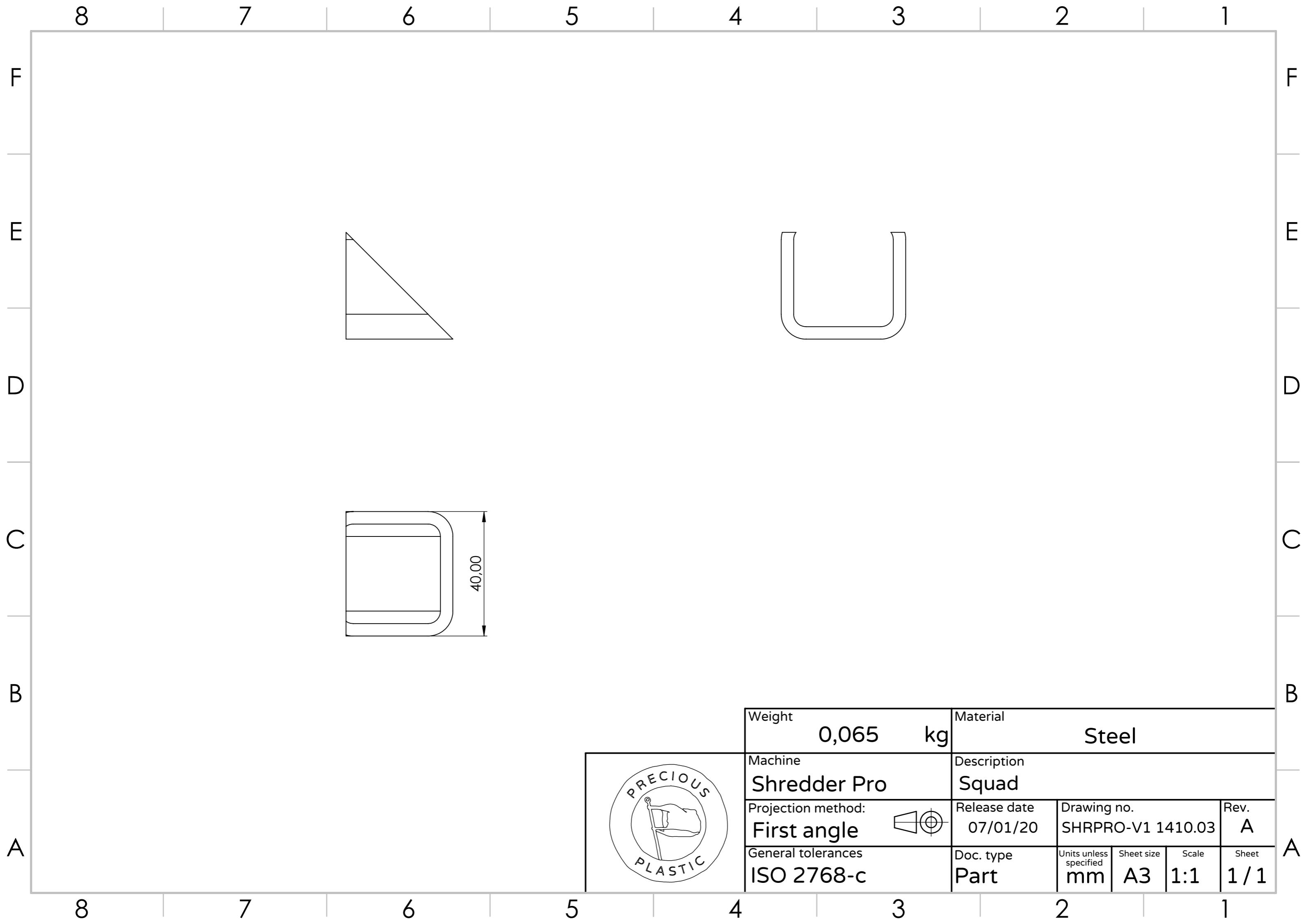
ITEM NO.	PART NUMBER	QTY.
3	SHRPRO-V1 1410.03-A Squad	4
2	SHRPRO-V1 1410.02-A L profile	3
1	SHRPRO-V1 1410.01-A Frame	1

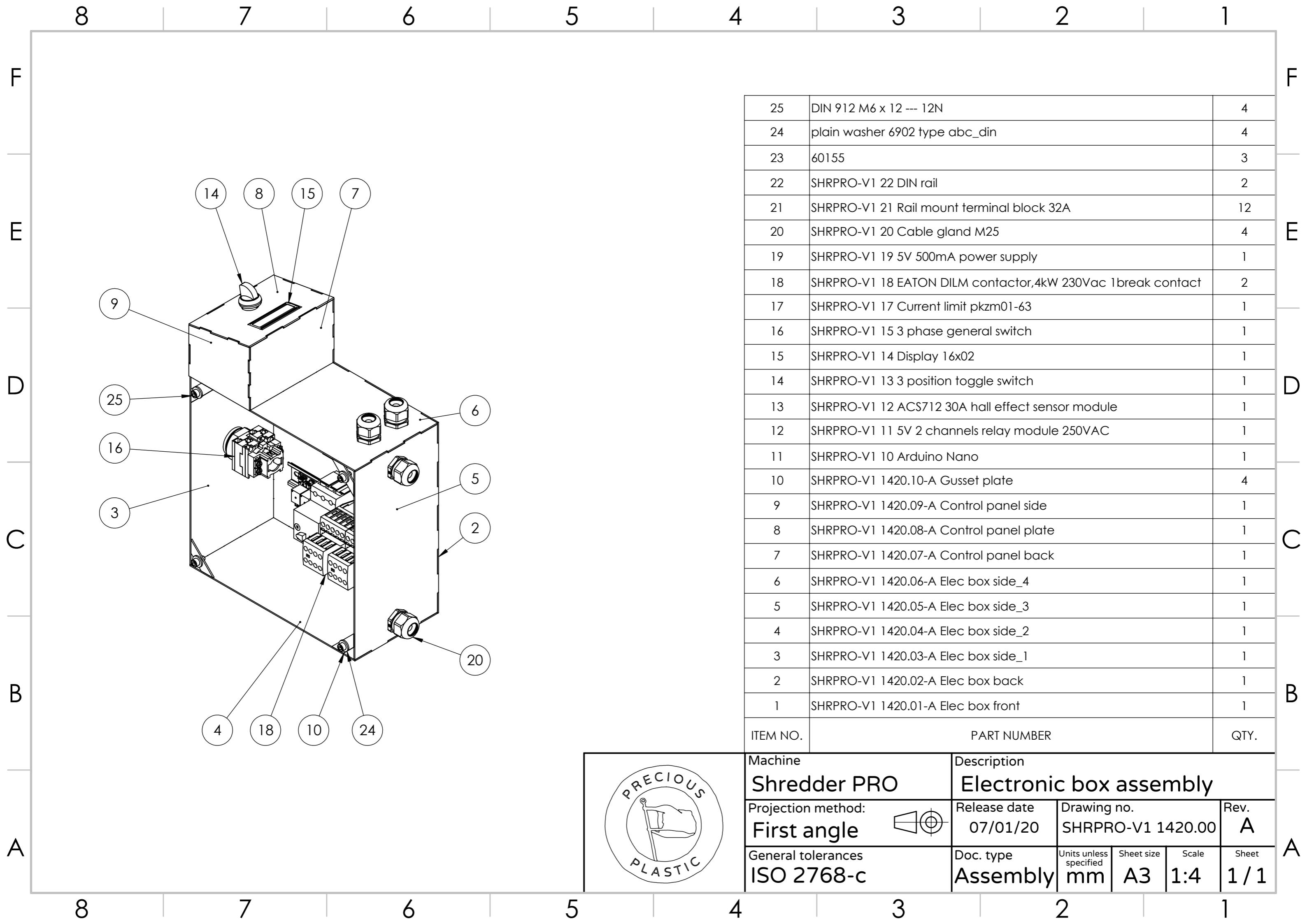


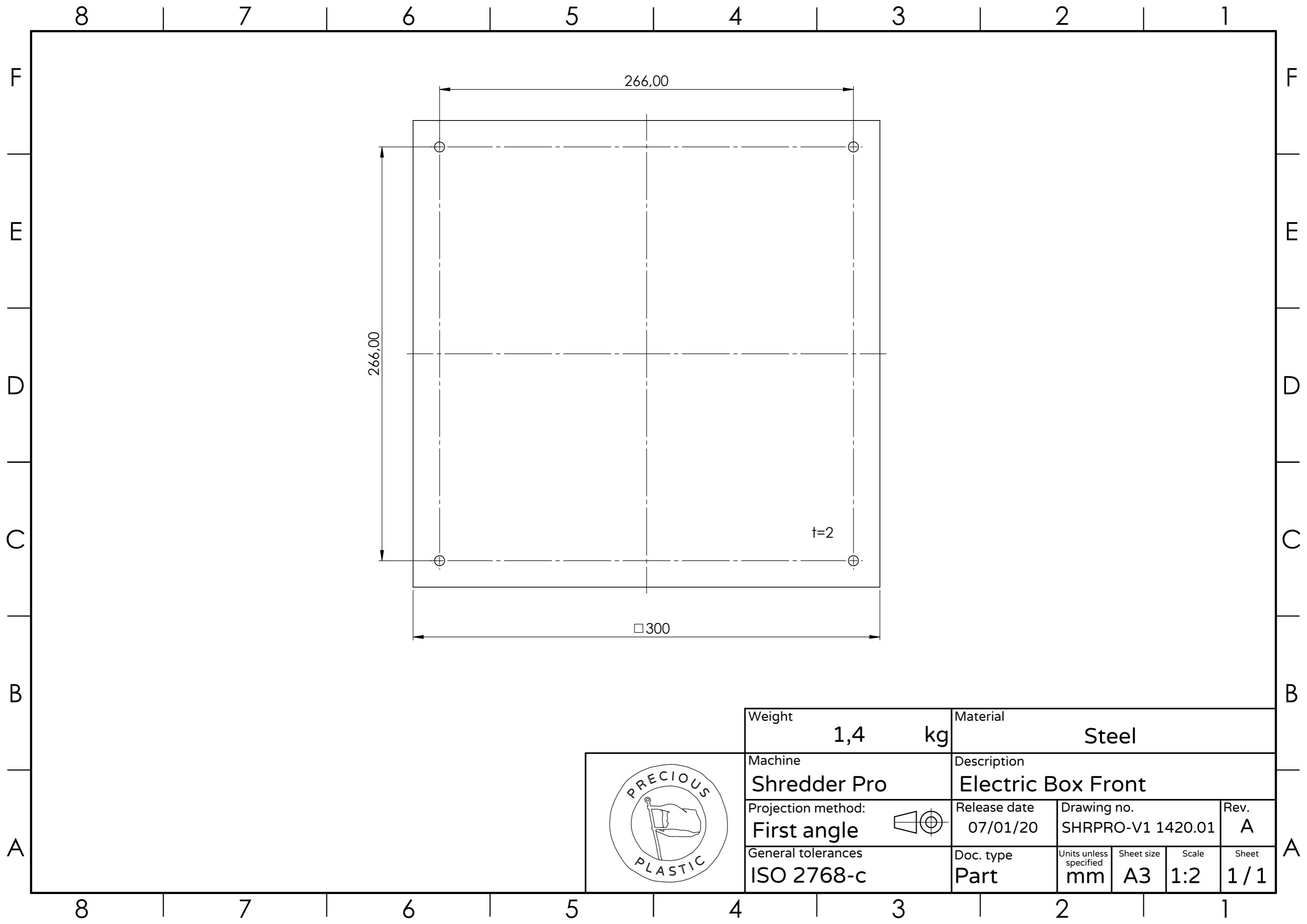
Machine Shredder PRO	Description Frame			
Projection method: First angle	Release date 07/01/20	Drawing no. SHRPRO-V1 1410.00	Rev. A	
General tolerances ISO 2768-m	Doc. type Assembly	Units unless specified mm	Sheet size A3	Scale 1:10
				Sheet 1 / 1

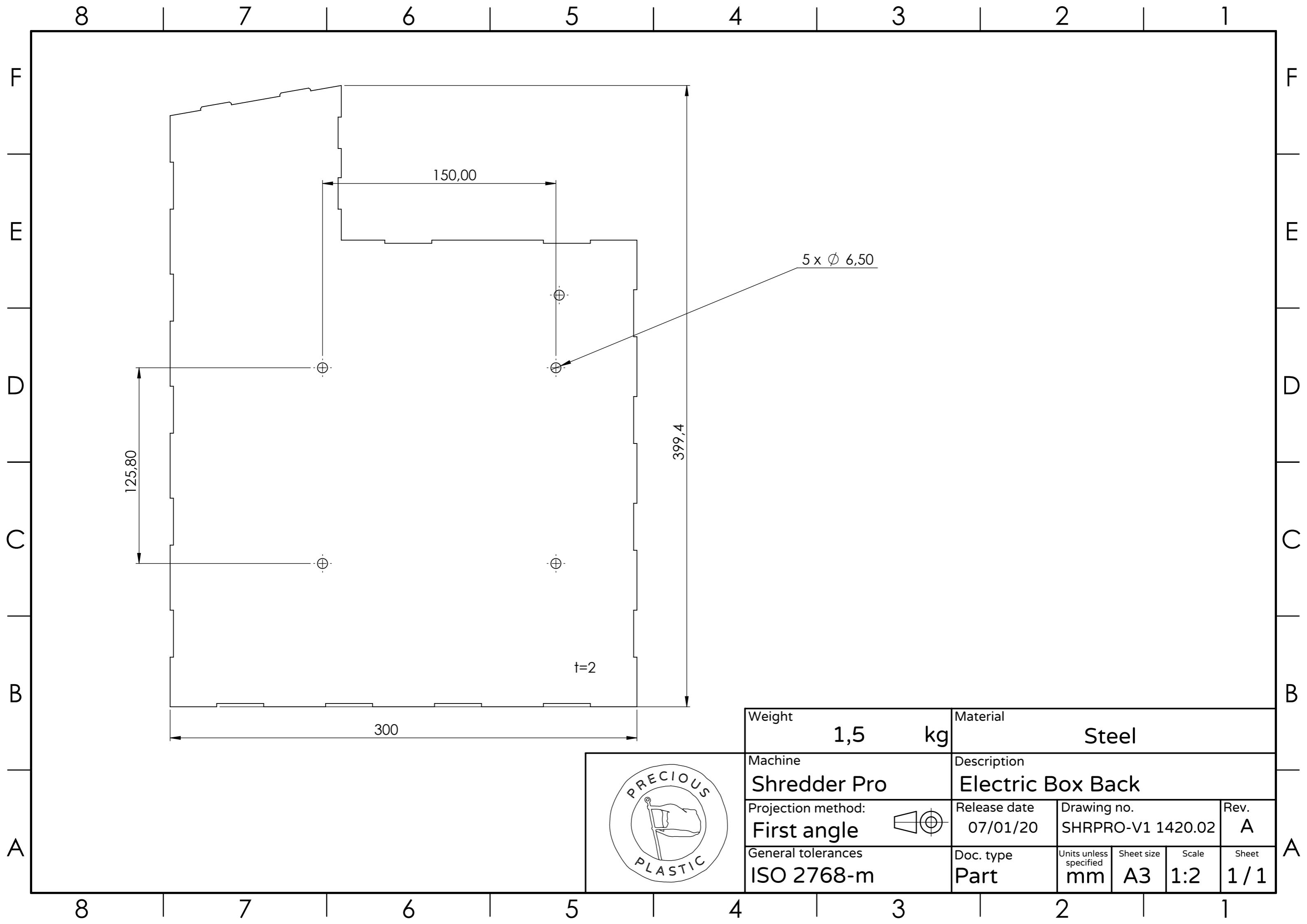


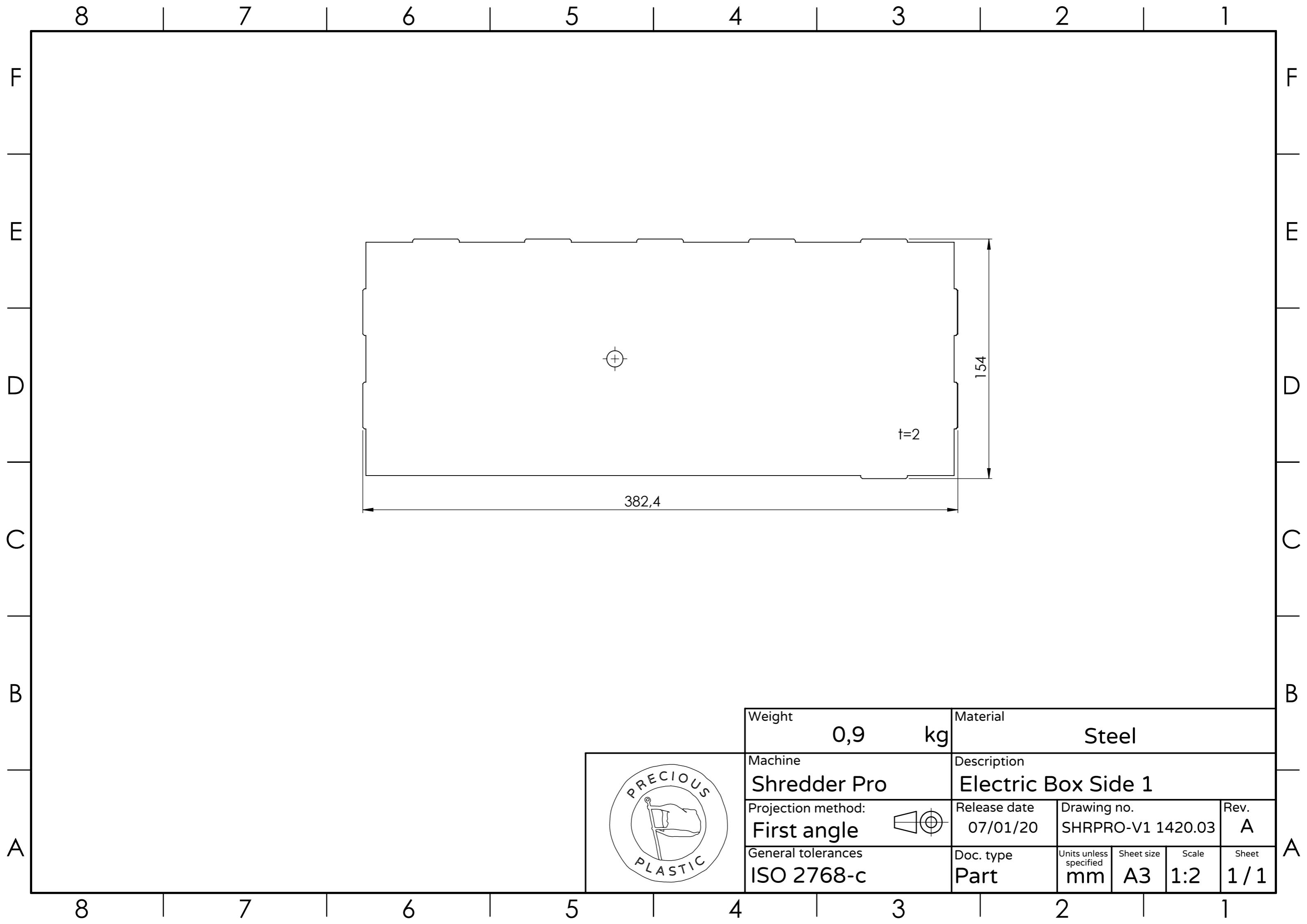


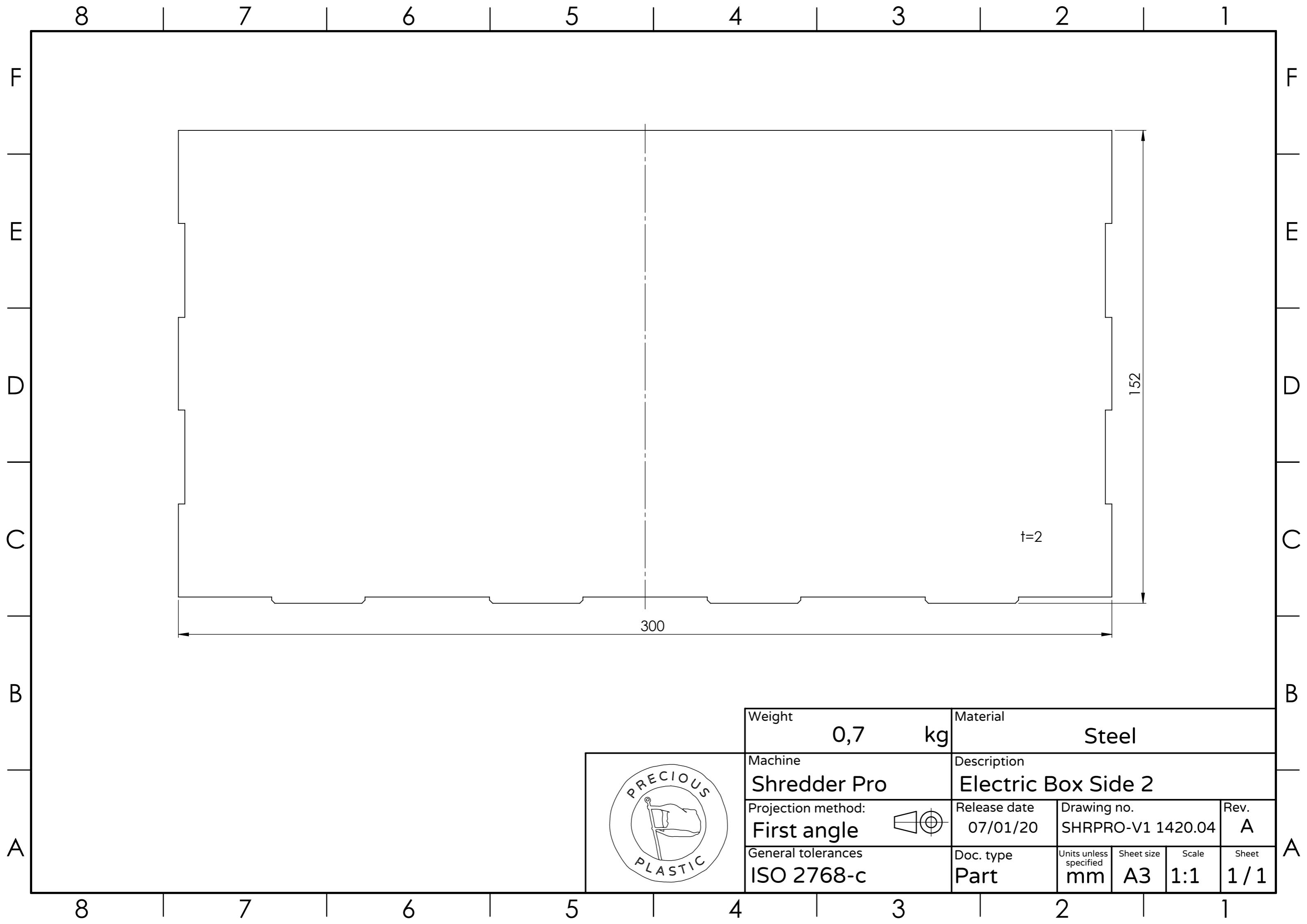


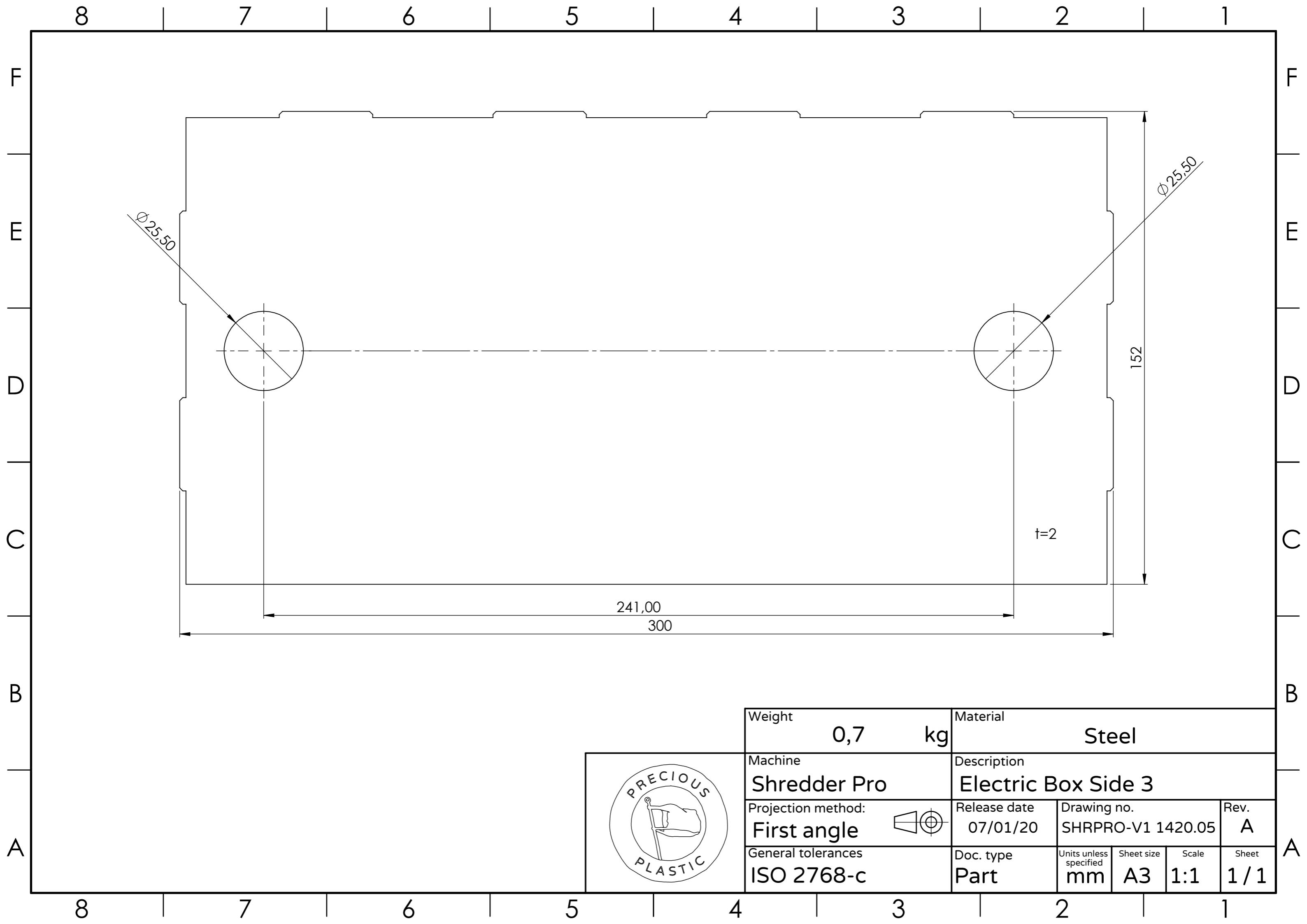


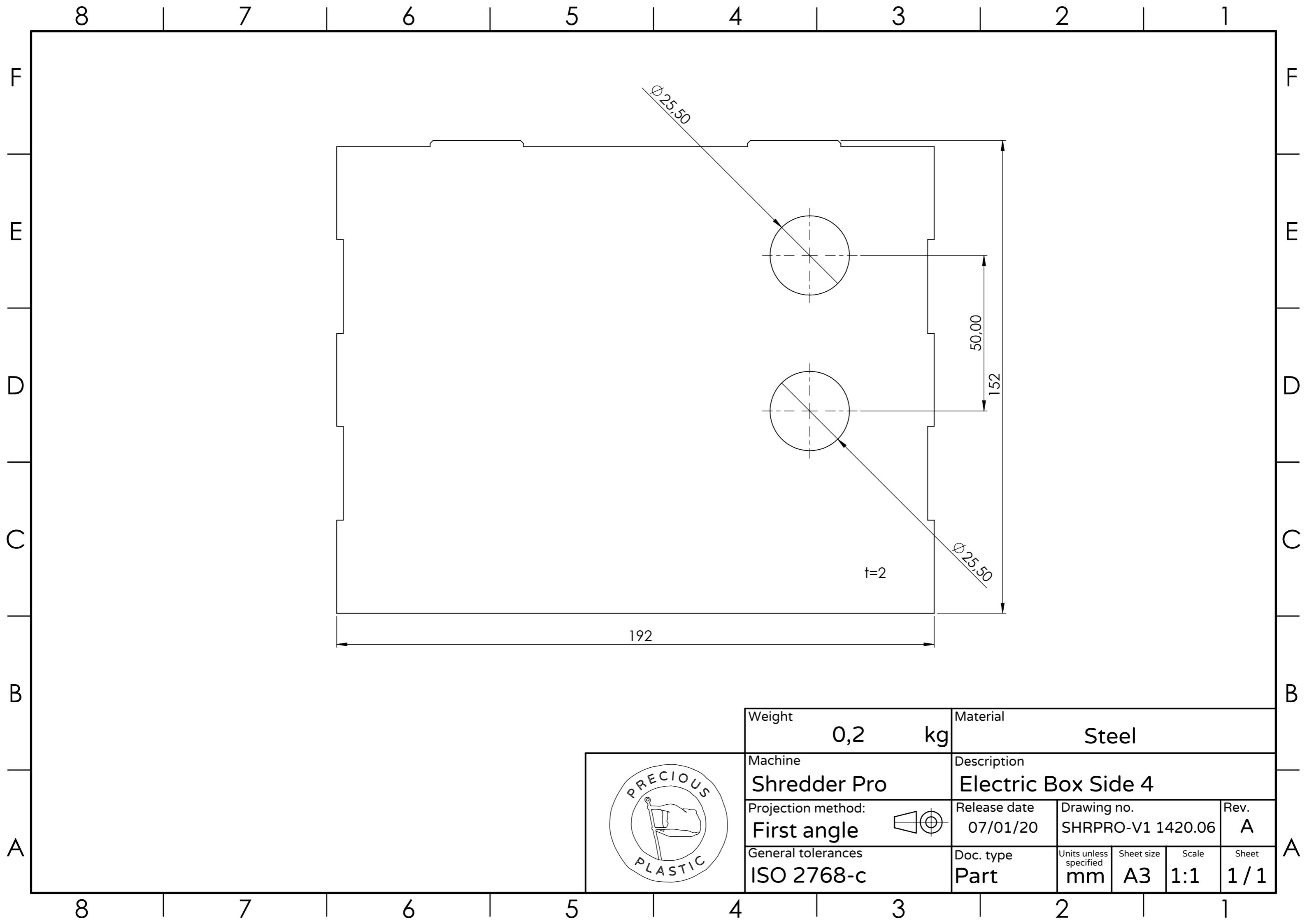


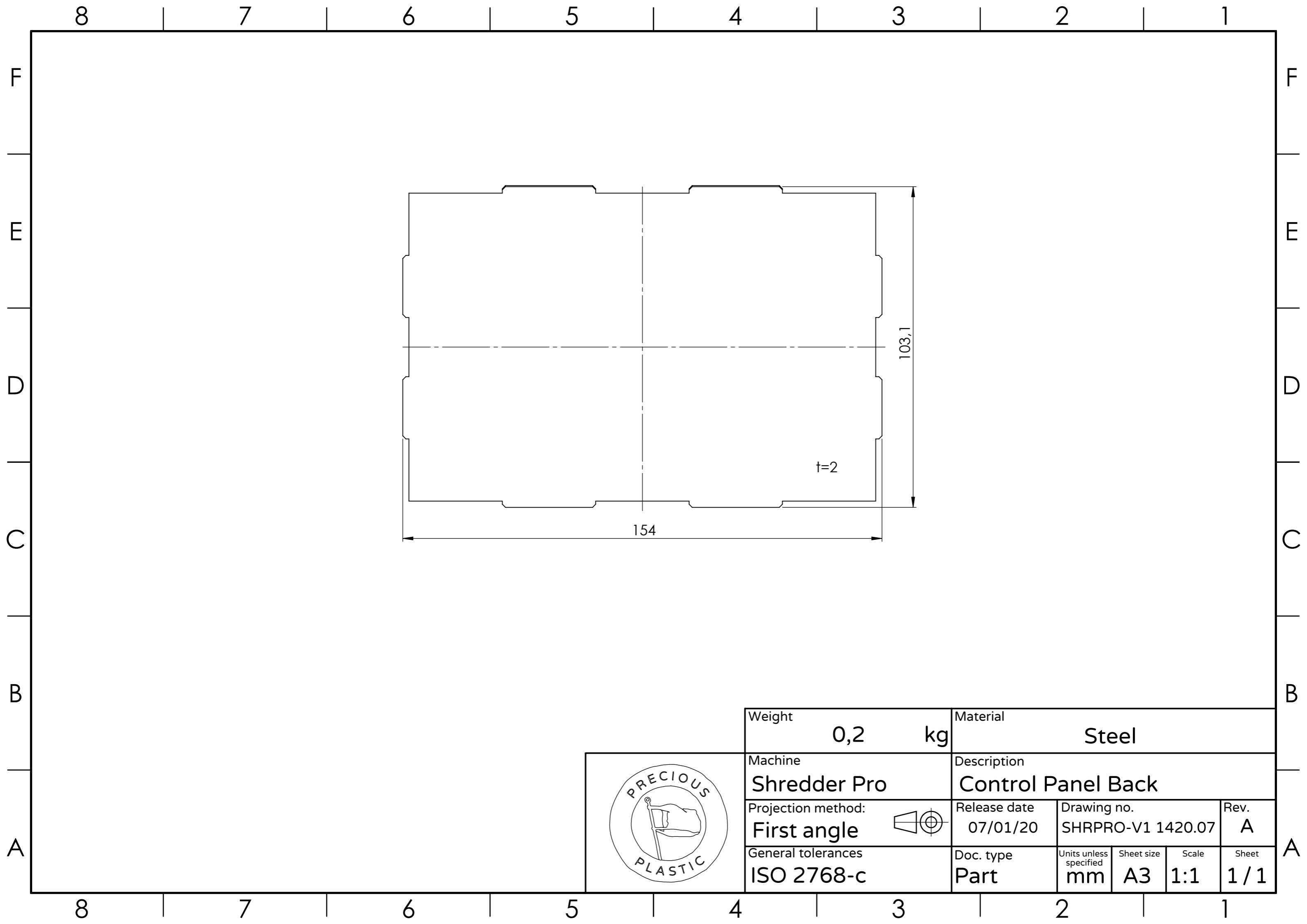


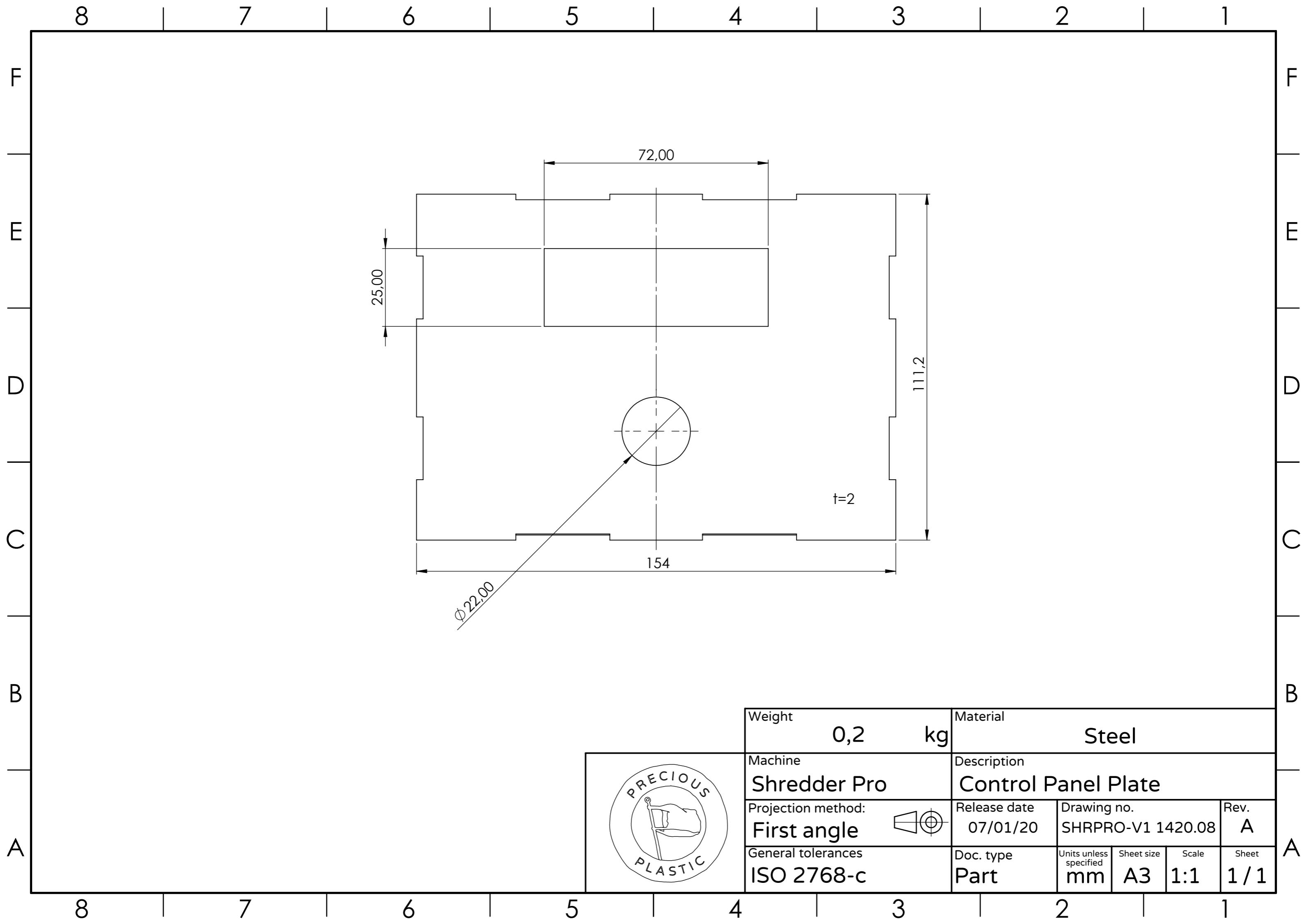


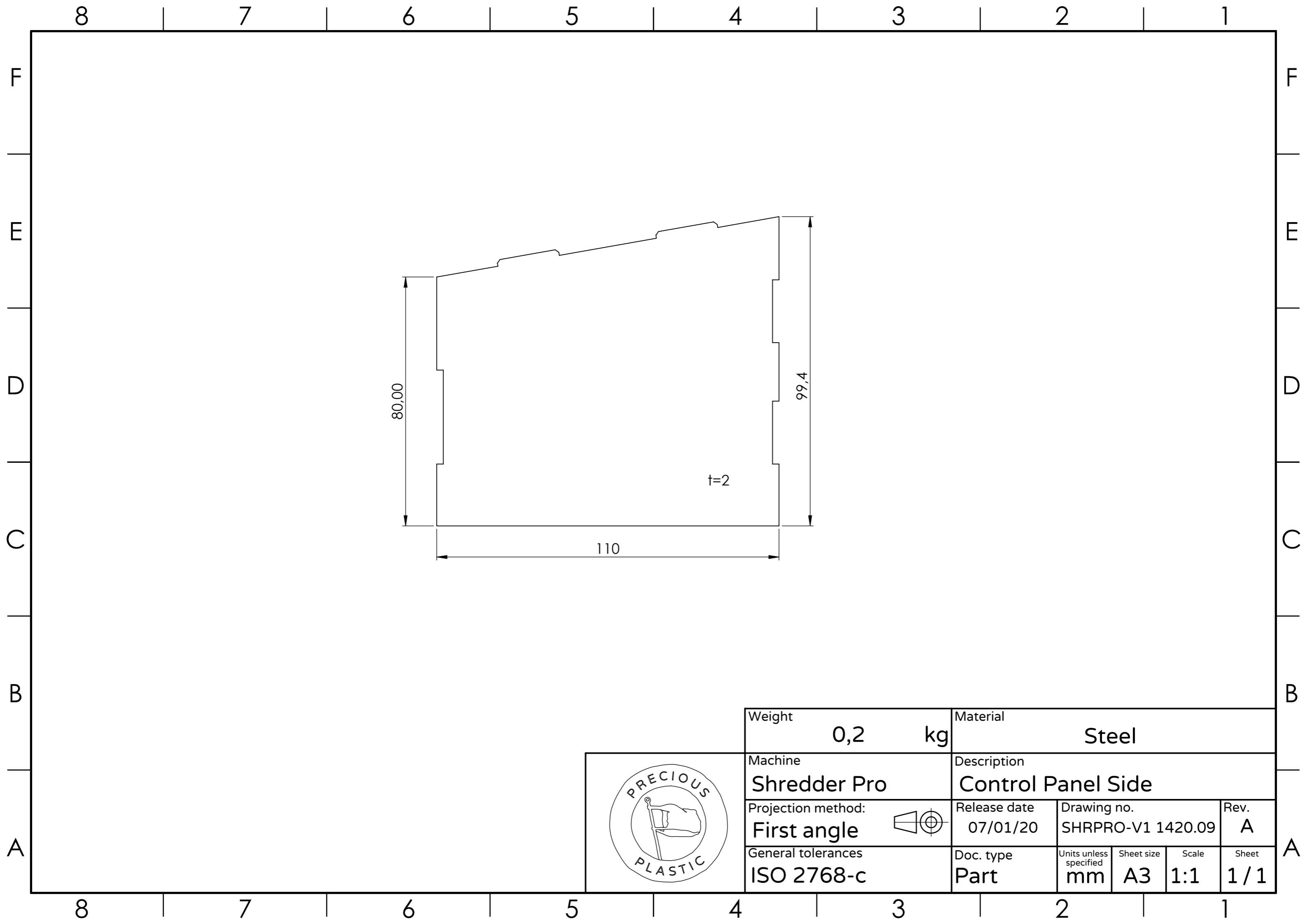


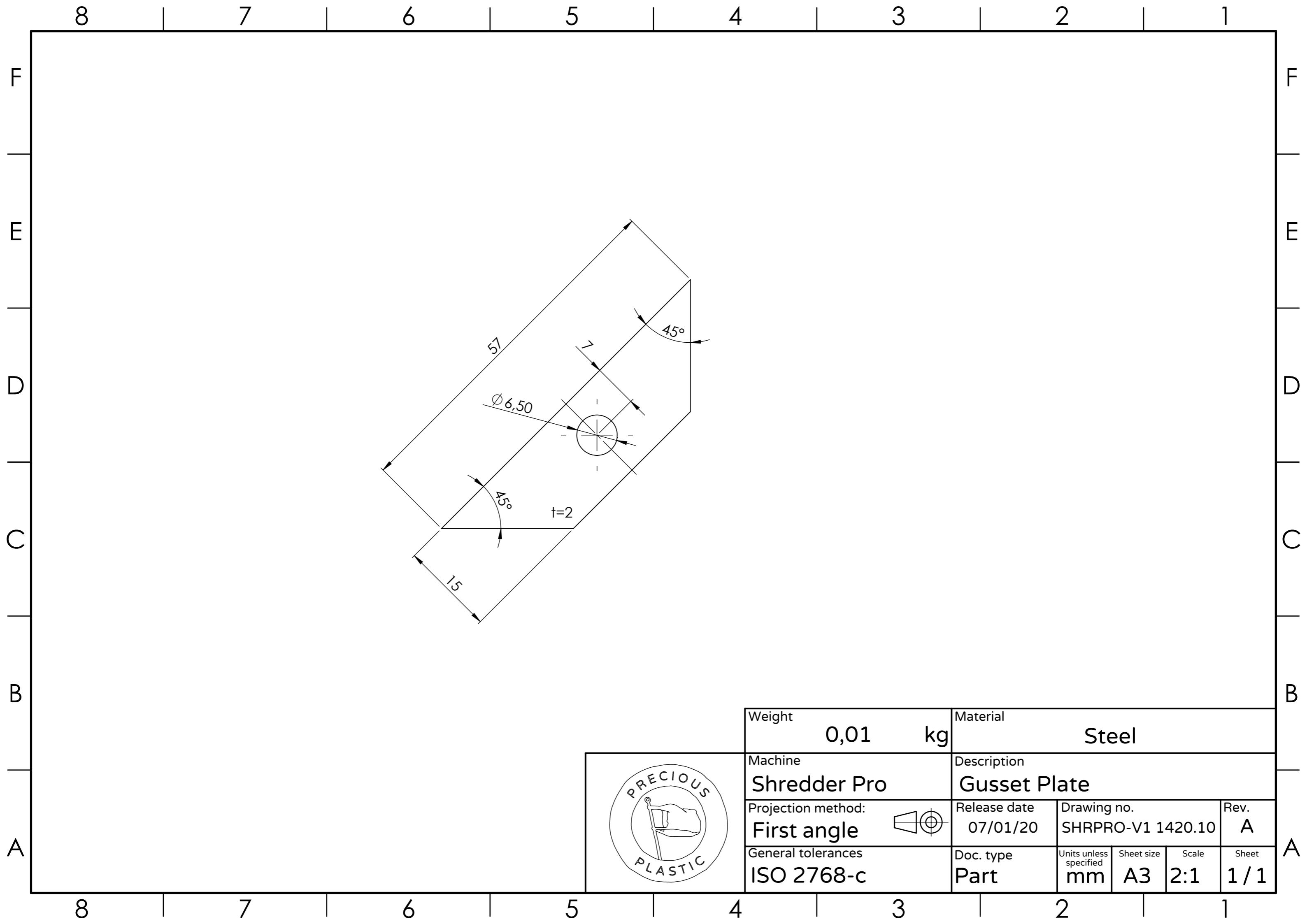


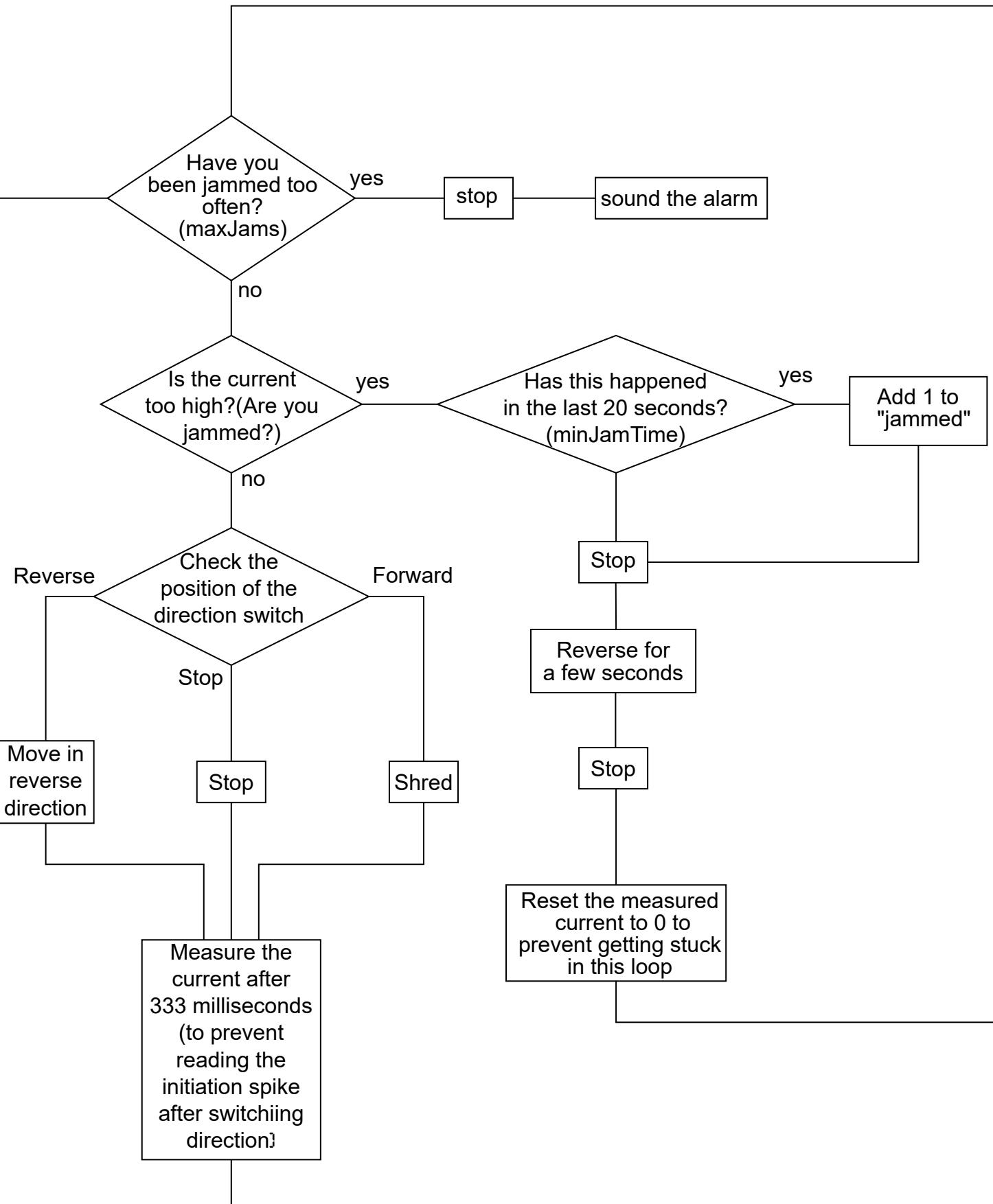










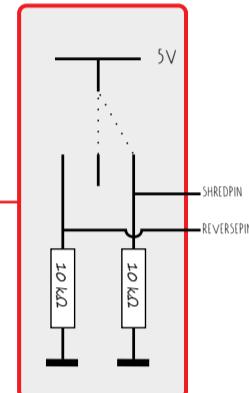


WHAT ARE WE CONNECTING TO THE ARDUINO?	5V	GND	INPUT	OUTPUT	SO HOW MANY CONNECTIONS DO WE NEED?
-RELAY MODULE	✓	✓			2 4
-DISPLAY	✓	✓			2 4
-HALL SENSOR MODULE	✓	✓	1		3
-THREE STATE SWITCH	✓	*	2		3
-POWER SUPPLY	✓	✓			2

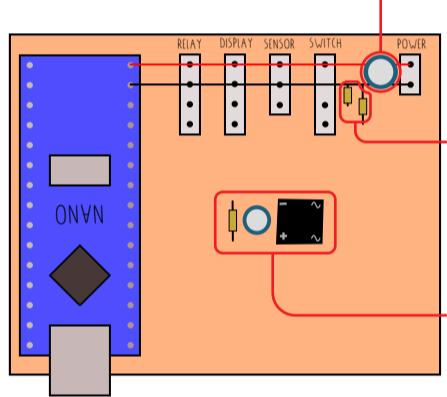
* THE SWITCH READOUTS ARE CONNECTED TO GROUND THROUGH TWO PULL-DOWN RESISTORS OF 10KOHM.

SO HOW MANY
CONNECTIONS
DO WE NEED?

WHAT IT LOOKS LIKE IN THE SCHEMATIC



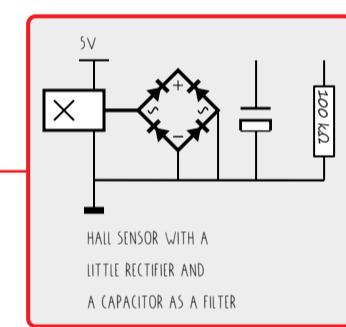
SO THIS IS WHAT OUR BOARD
LAYOUT WILL LOOK LIKE:



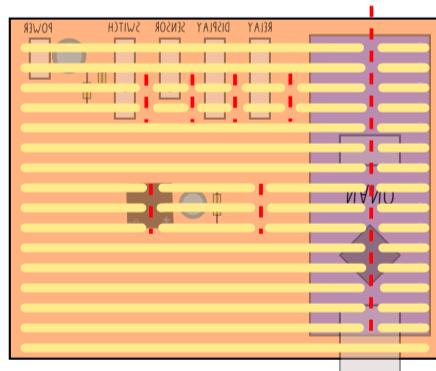
THIS IS A HUGE CAPACITOR TO
EVEN OUT VOLTAGE SPIKES
(ARDUINO DOESN'T LIKE THOSE)

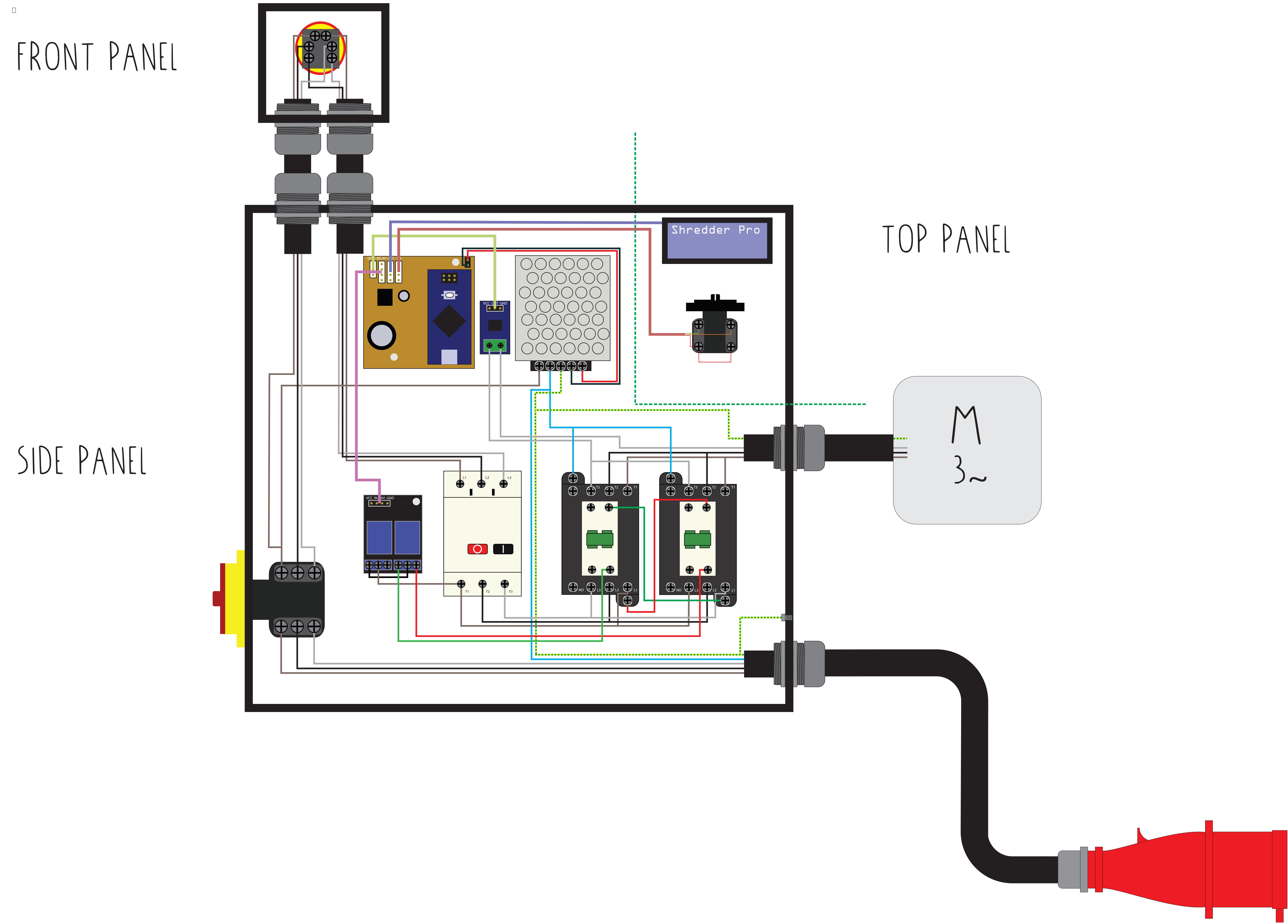
THESE ARE THE 10 KOMH
PULL DOWN RESISTORS
FOR THE SWITCH

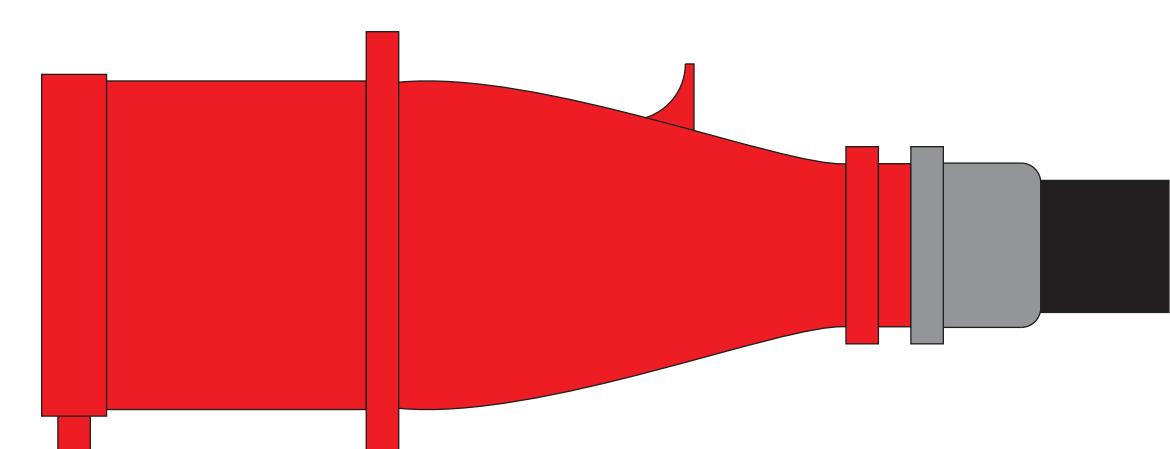
THIS IS THE FILTER
THAT EVEN'S OUT
THE SIGNAL FROM
THE HALL SENSOR



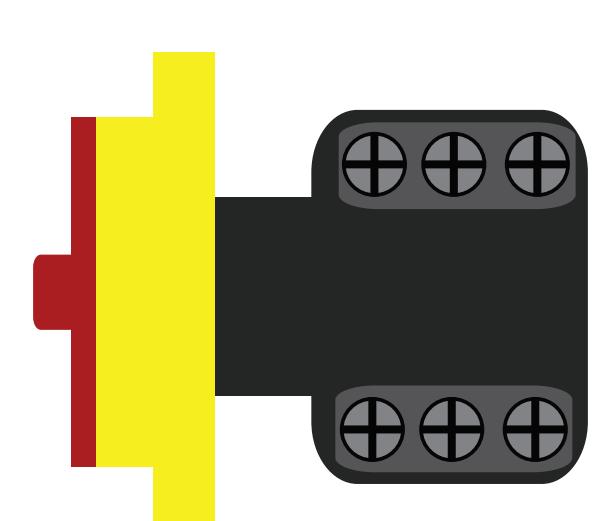
ON THE BACK OF THE BOARD WE HAVE TO MAKE
SURE SOME CONNECTIONS ARE CUT.



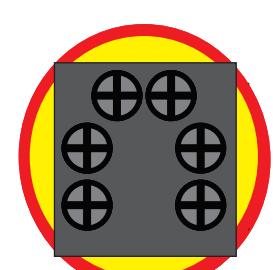




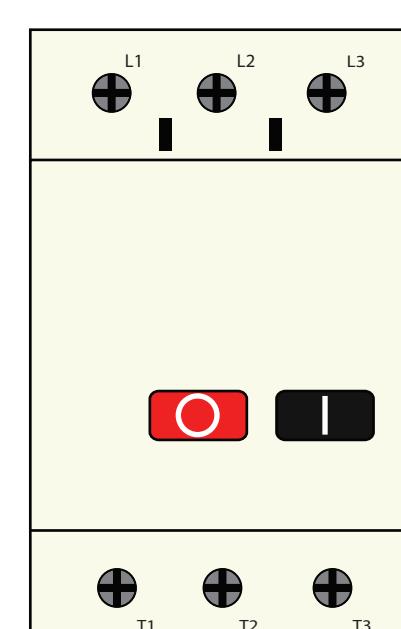
16A MALE PLUG



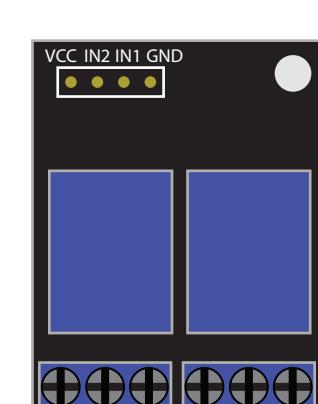
3 PHASE ROTARY SWITCH



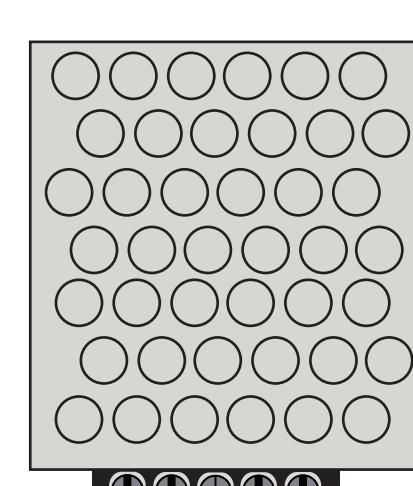
EMERGENCY STOP



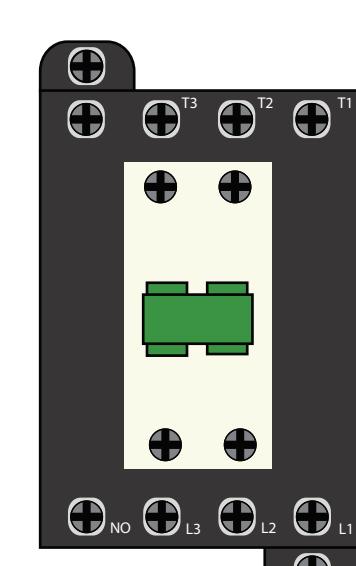
3 PHASE CURRENT LIMITER



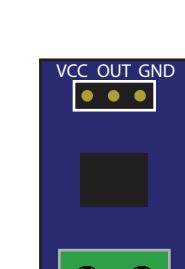
RELAY MODULE



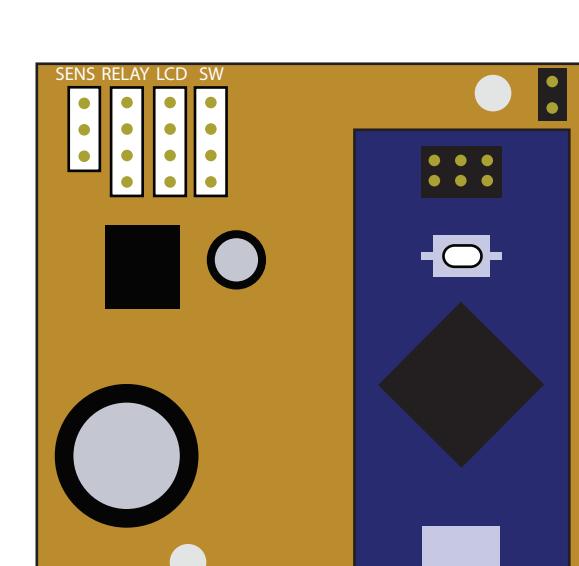
5V POWER SUPPLY



3 PHASE CONTACTOR
WITH AUXILIARY MODULE



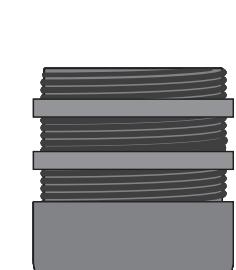
CURRENT SENSOR



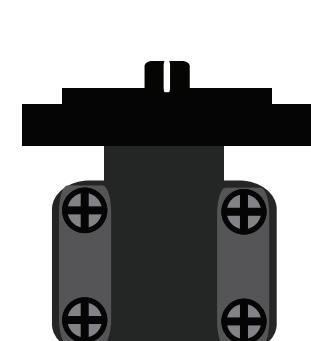
CONTROLLING BOARD



LCD DISPLAY



M25 CABLE GLAND



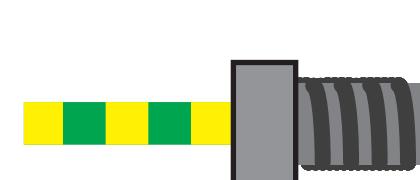
3 POSITION SWITCH



6MM 5 MULTI-CORE CABLE



THREE PHASE MOTOR 3KW



GROUND BOLT

SHREDDER OUTPUT

1	2	3	4
ORIGINAL OBJECT	SHREDDING	SHREDDING	SHREDDING + MESH
			
			
	50 kg/h	30 kg/h	20 kg/h
			
			
	50 kg/h	30 kg/h	20 kg/h
			
			
	50 kg/h	30 kg/h	20 kg/h
			
			
	50 kg/h	30 kg/h	20 kg/h

