

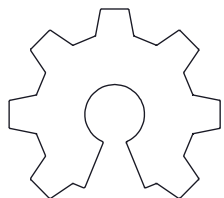
Skrivbord

A workstation for a 3 monitor PC and electronics

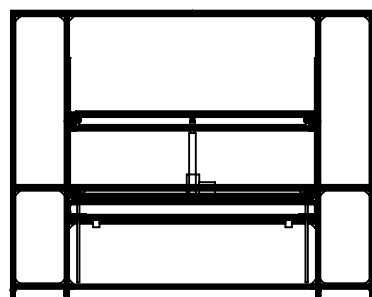
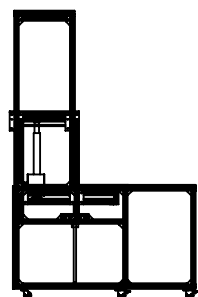
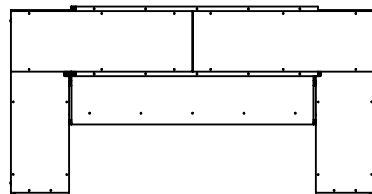
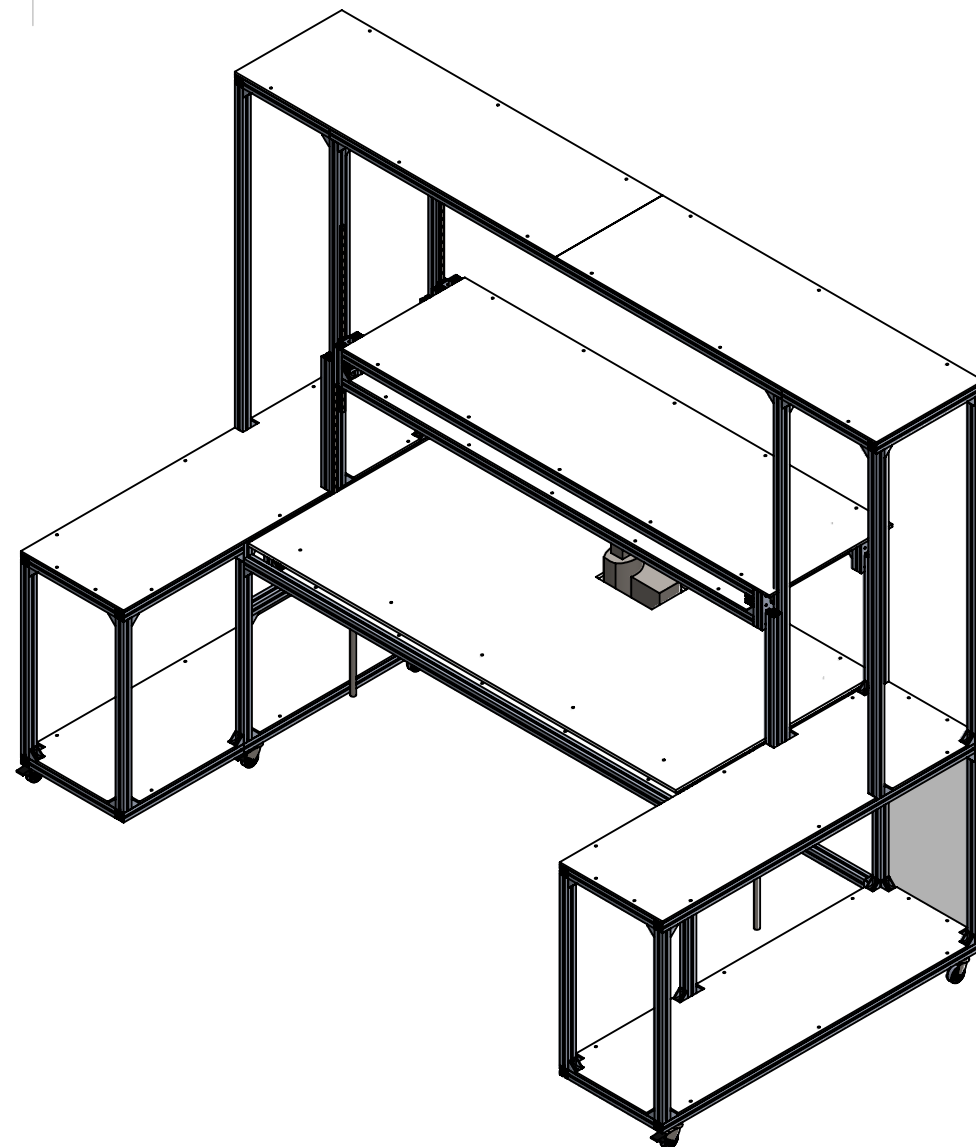
tim@gremalm.se

License: GPL V.3 or later

<http://tim.gremalm.se>



open source
hardware



TITLE:

Workstation

CREATOR: Tim Gremalm

Website: <http://tim.gremalm.se>

DATE: 2017-09-27

LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)

REVISION: 1.2

DWG NO.

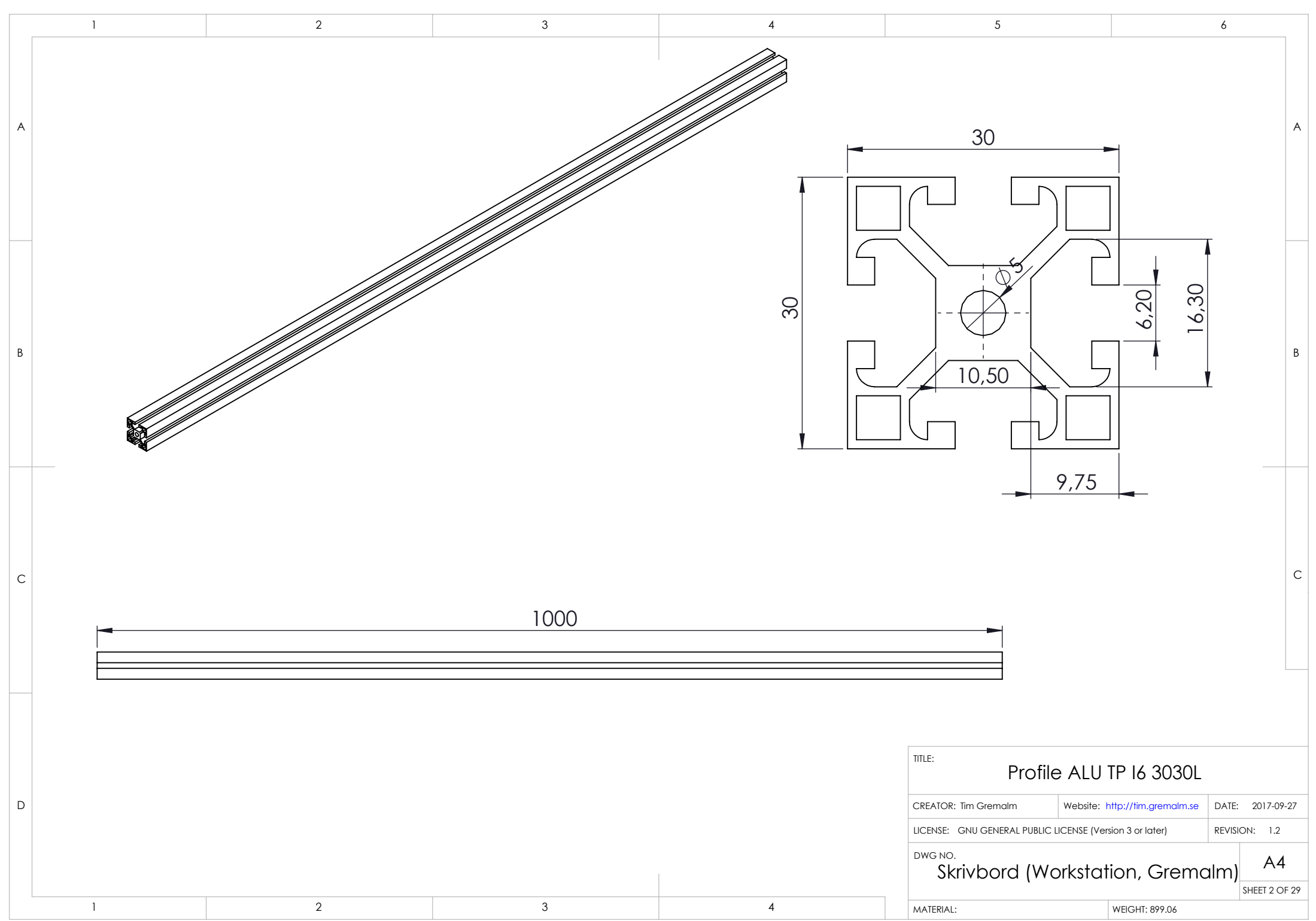
Skrivbord (Workstation, Gremalm)

A4

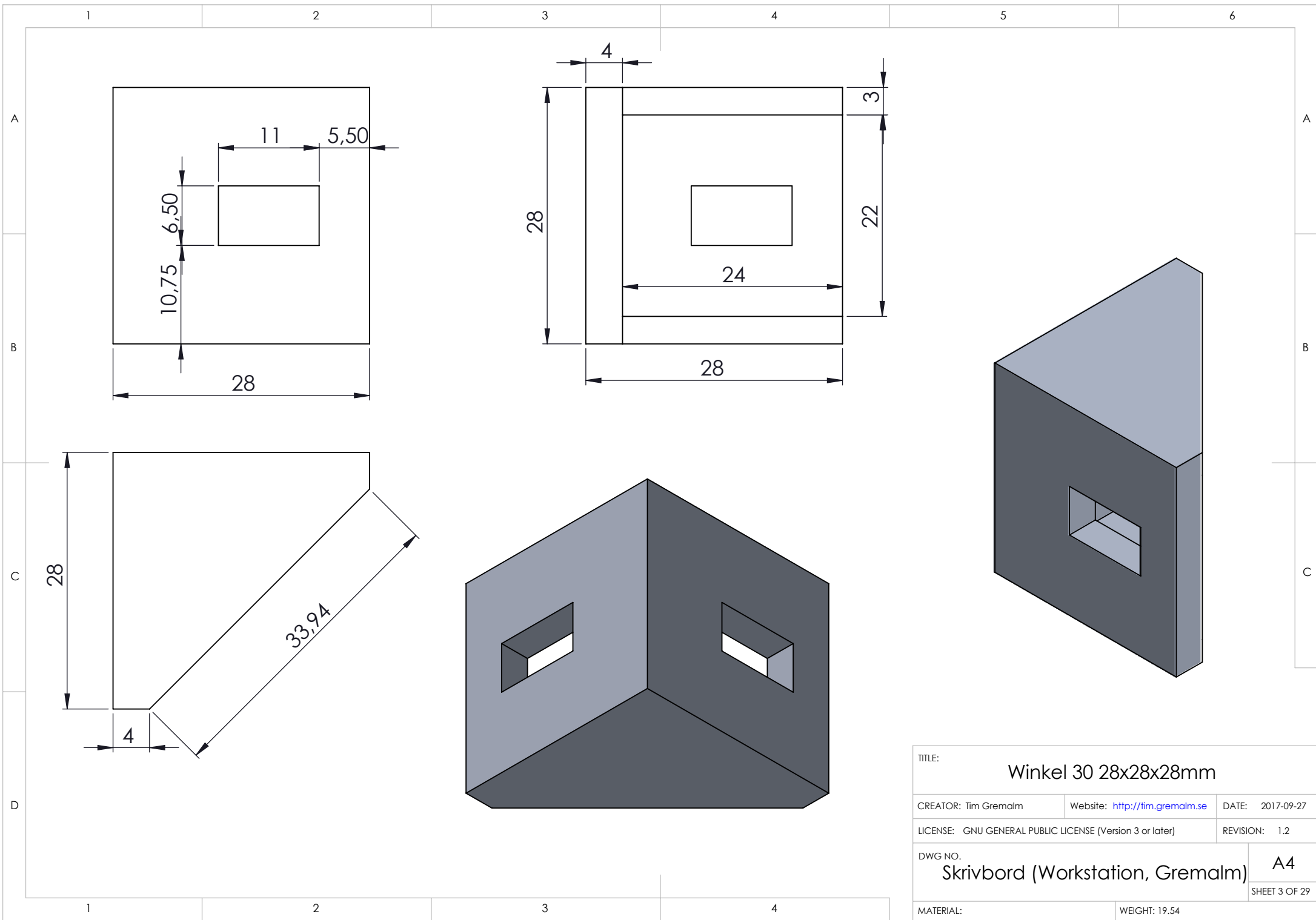
SHEET 1 OF 29

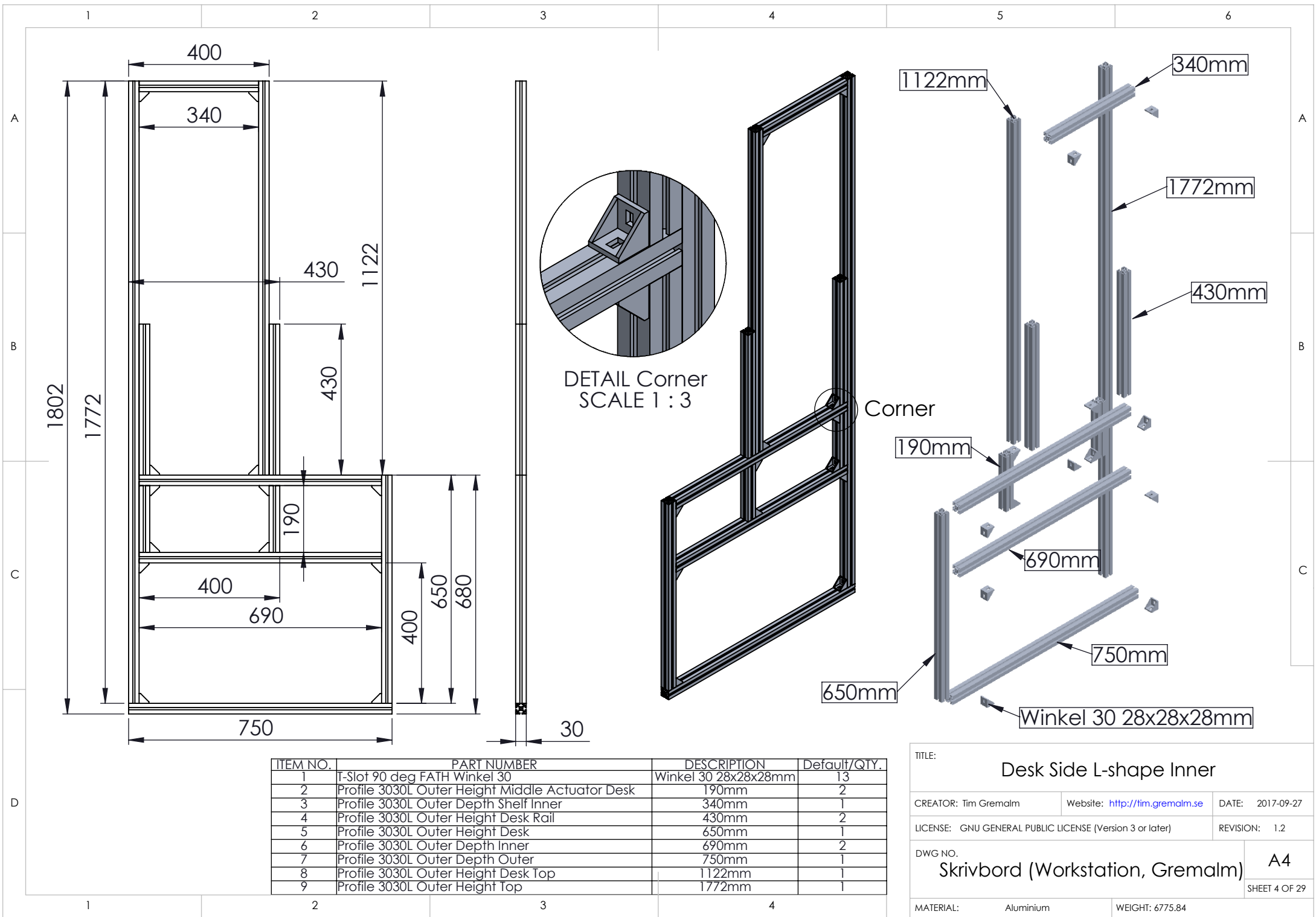
MATERIAL:

WEIGHT: 160619.75



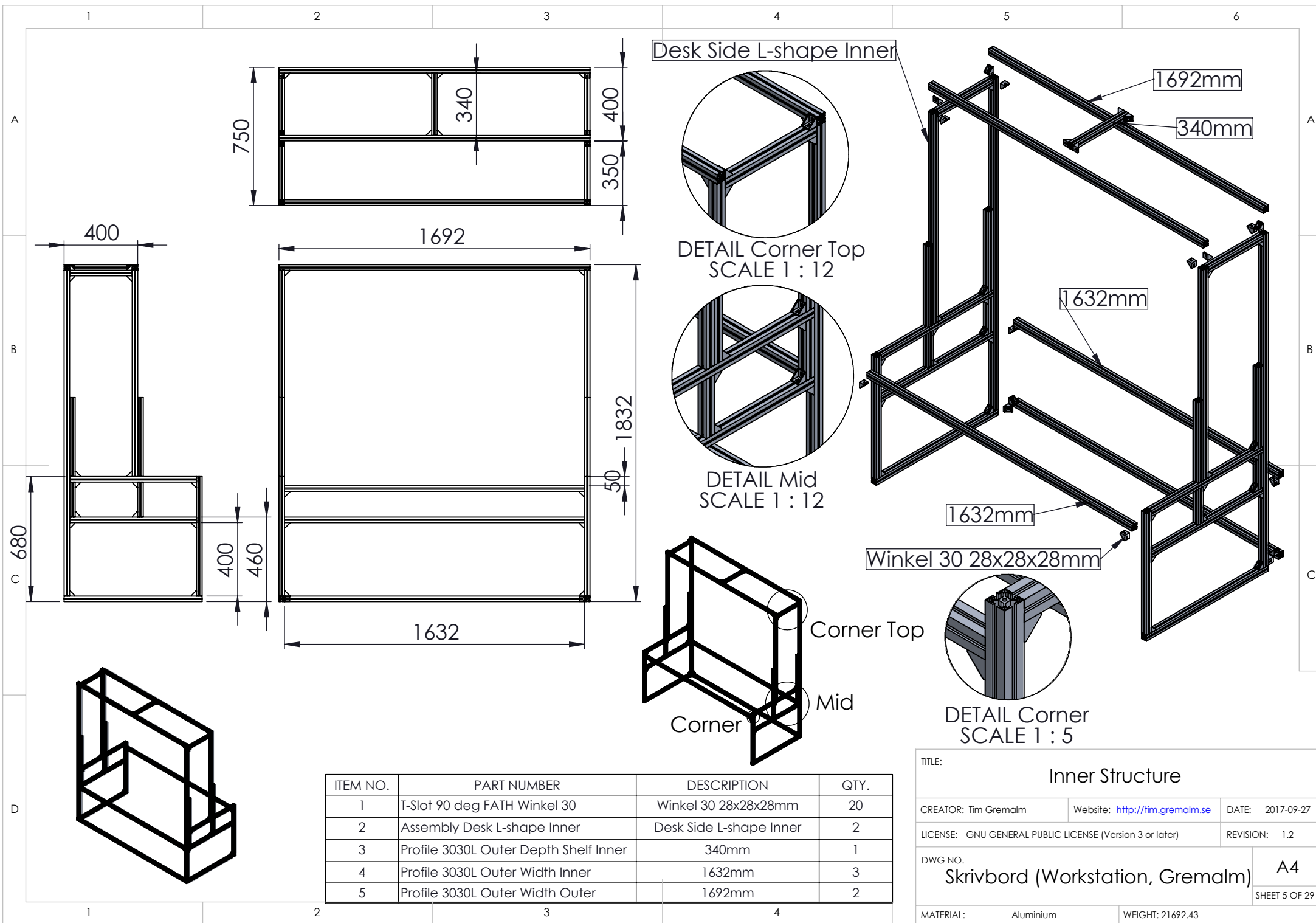
TITLE: Profile ALU TP I6 3030L		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL:		WEIGHT: 899.06
SHEET 2 OF 29		

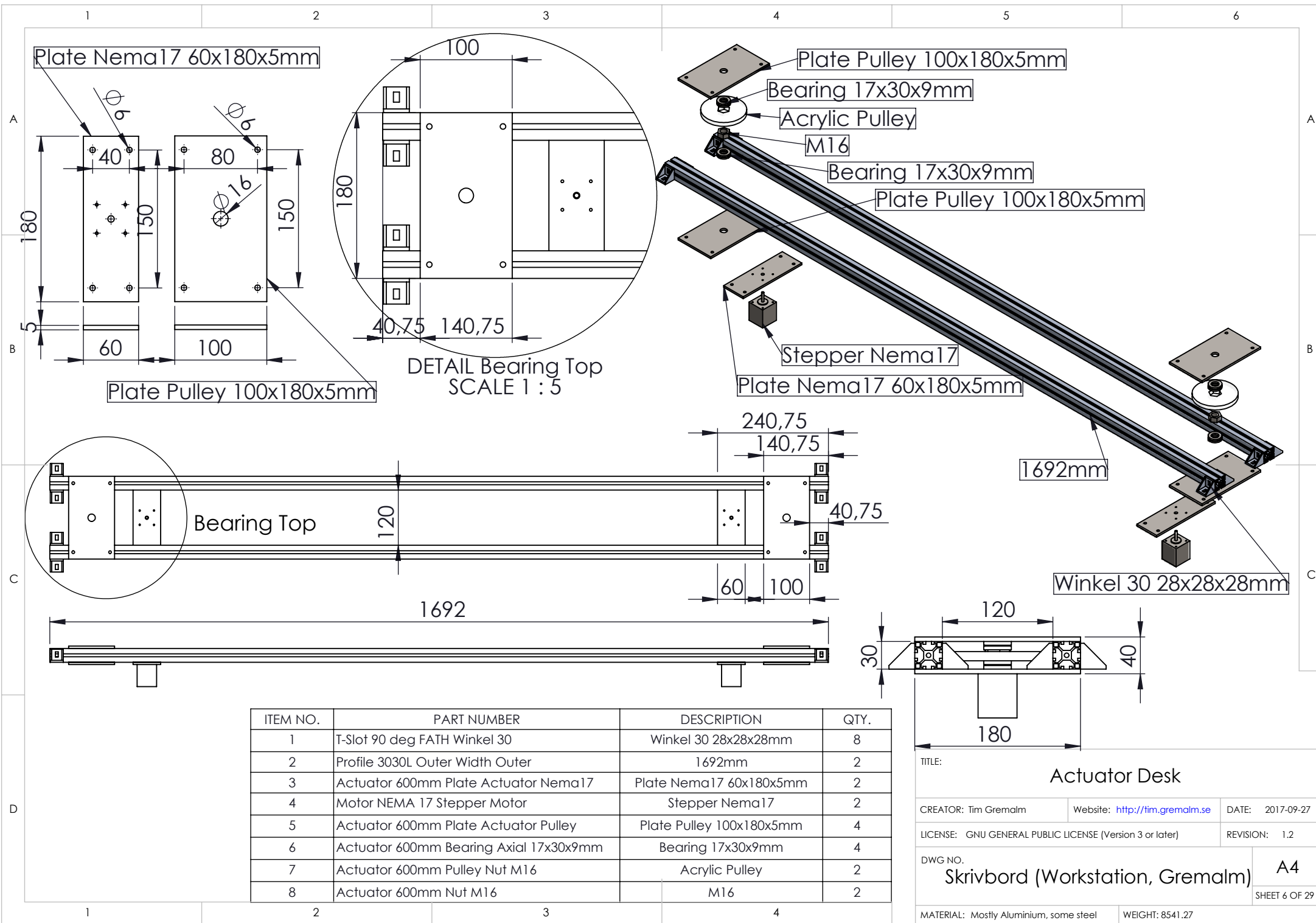


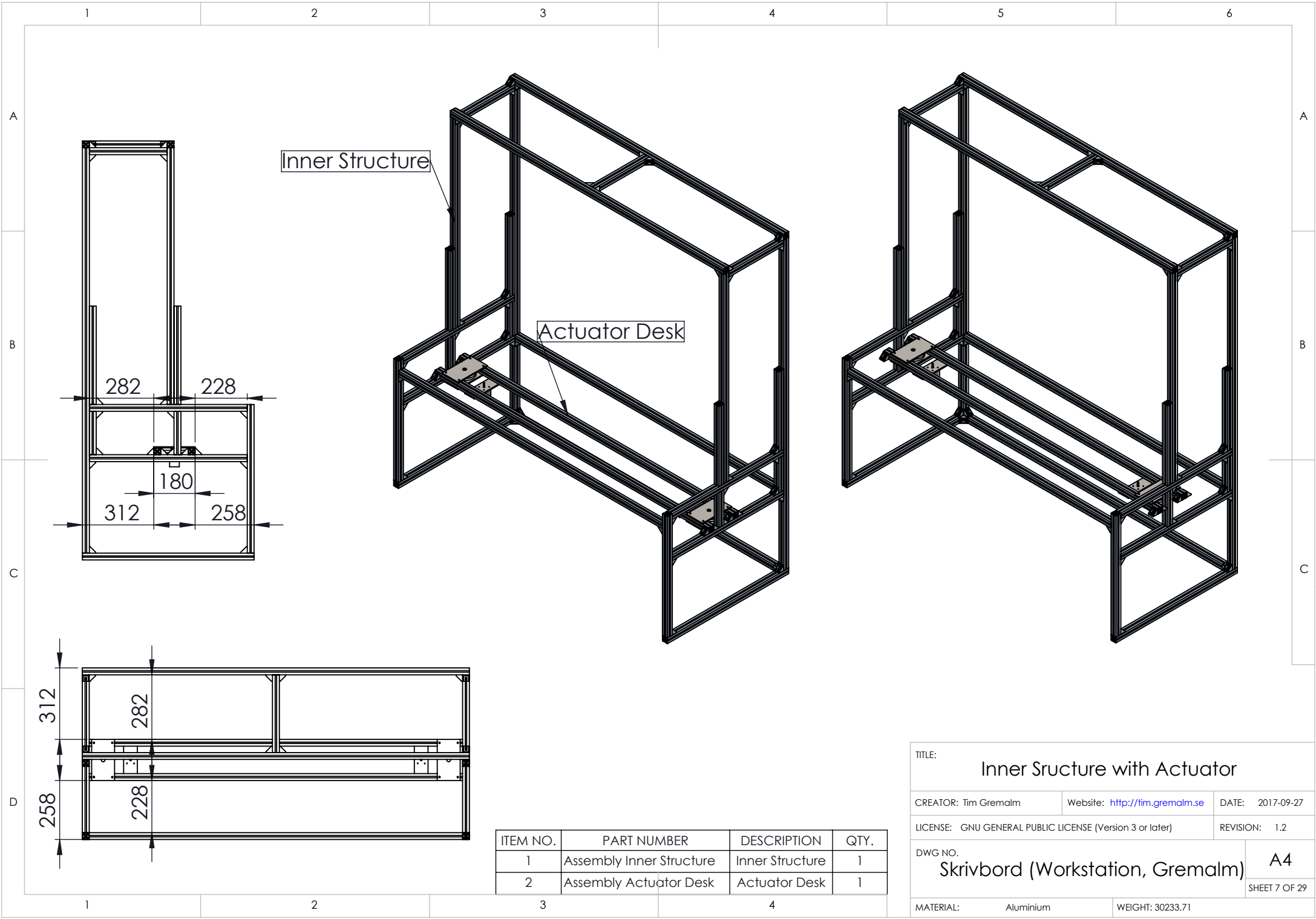


ITEM NO.	PART NUMBER	DESCRIPTION	Default/QT.Y.
1	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	13
2	Profile 3030L Outer Height Middle Actuator Desk	190mm	2
3	Profile 3030L Outer Depth Shelf Inner	340mm	1
4	Profile 3030L Outer Height Desk Rail	430mm	2
5	Profile 3030L Outer Height Desk	650mm	1
6	Profile 3030L Outer Depth Inner	690mm	2
7	Profile 3030L Outer Depth Outer	750mm	1
8	Profile 3030L Outer Height Desk Top	1122mm	1
9	Profile 3030L Outer Height Top	1772mm	1

TITLE: Desk Side L-shape Inner		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skribbord (Workstation, Gremalm)		A4
MATERIAL: Aluminium		WEIGHT: 6775,84
SHEET 4 OF 29		

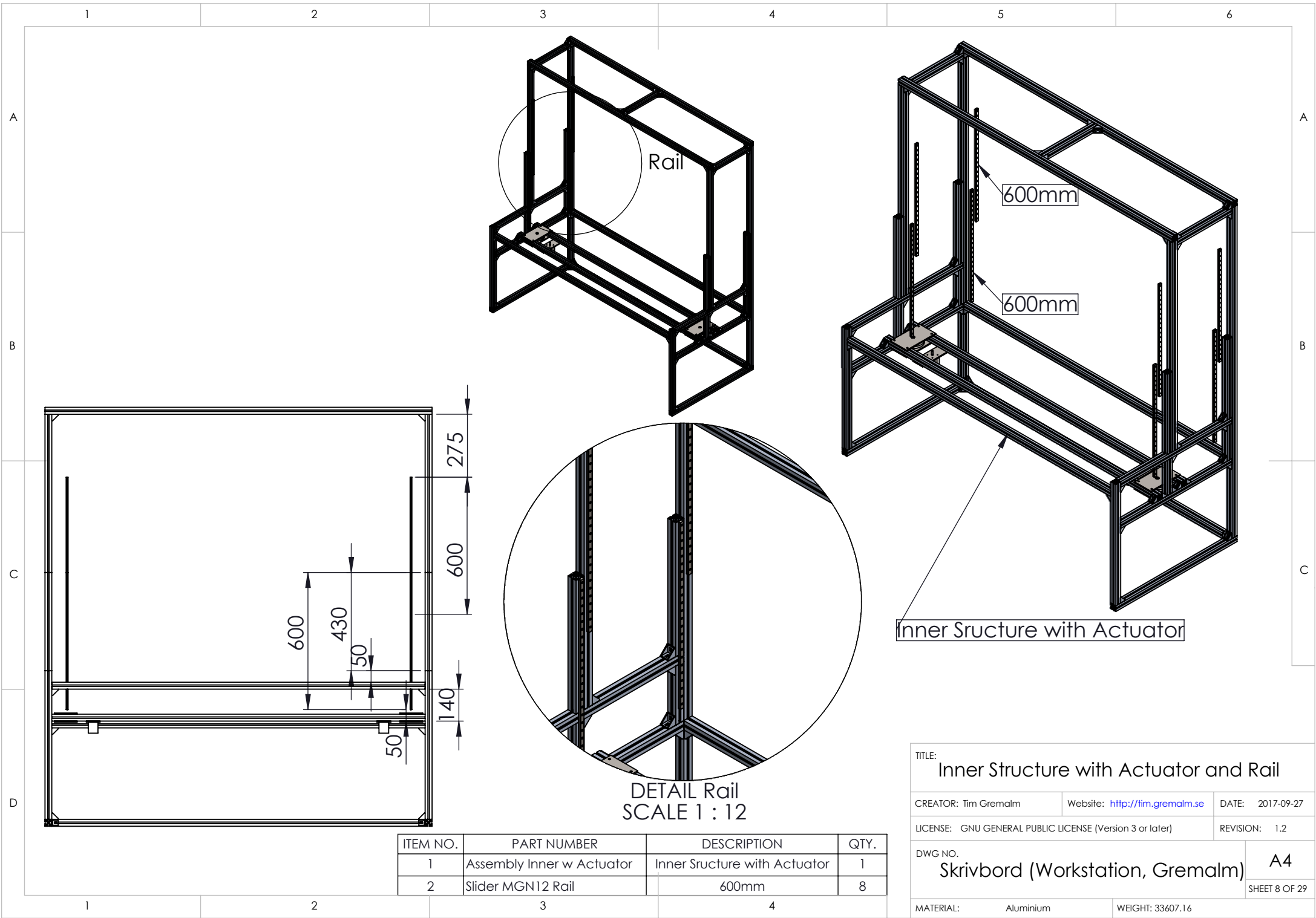


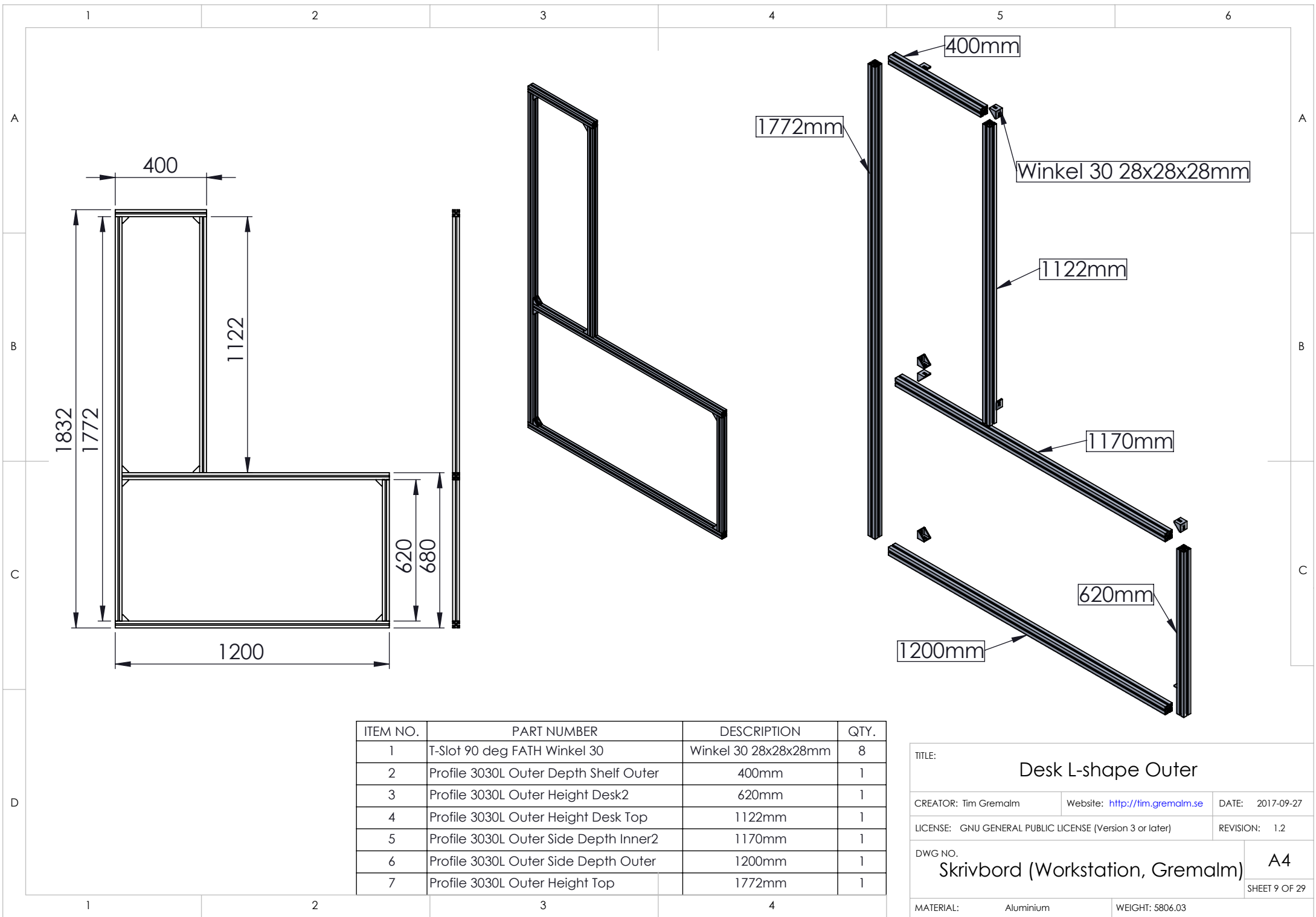


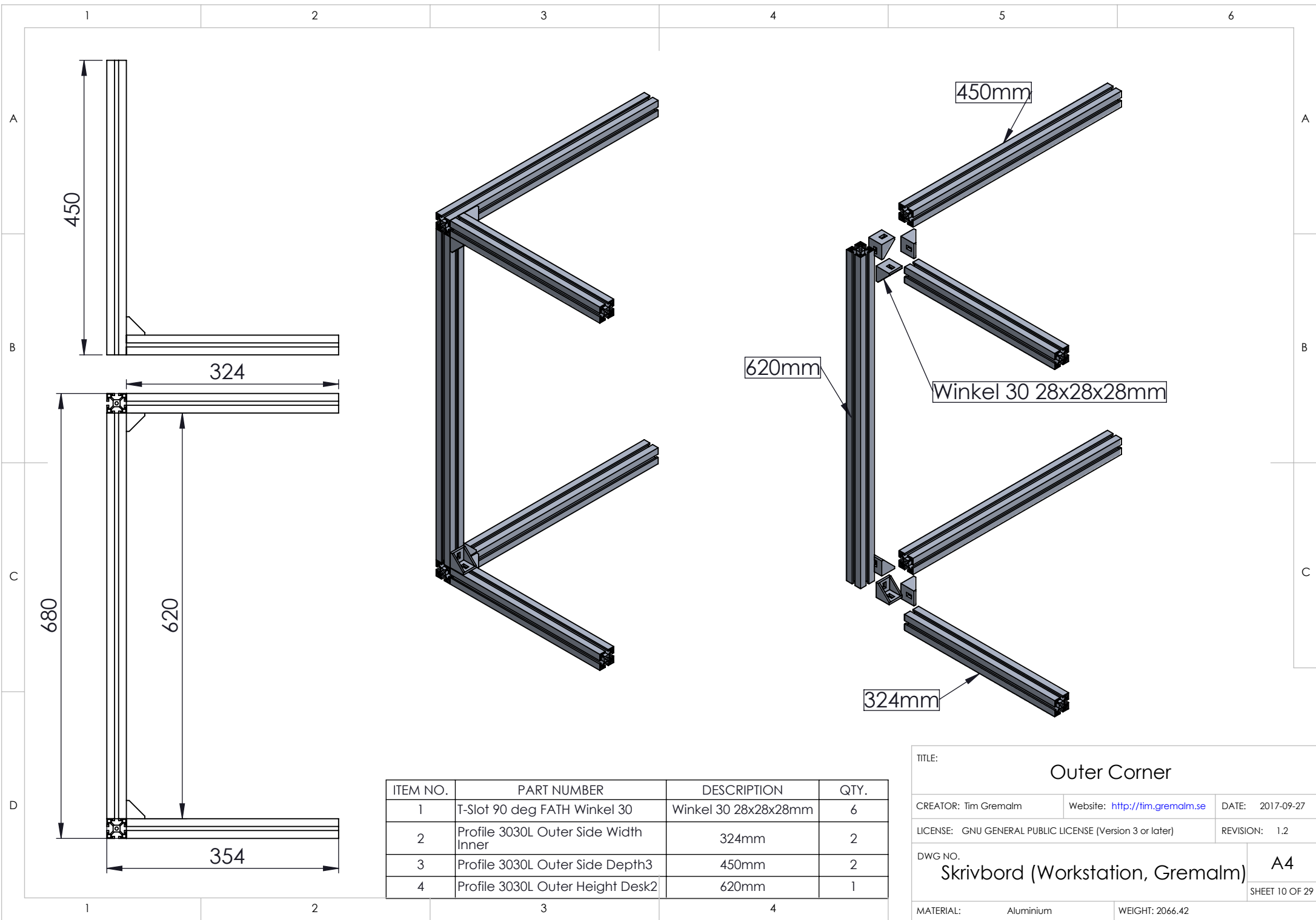


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Assembly Inner Structure	Inner Structure	1
2	Assembly Actuator Desk	Actuator Desk	1

TITLE: Inner Sructure with Actuator		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Aluminium		WEIGHT: 30233.71
SHEET 7 OF 29		

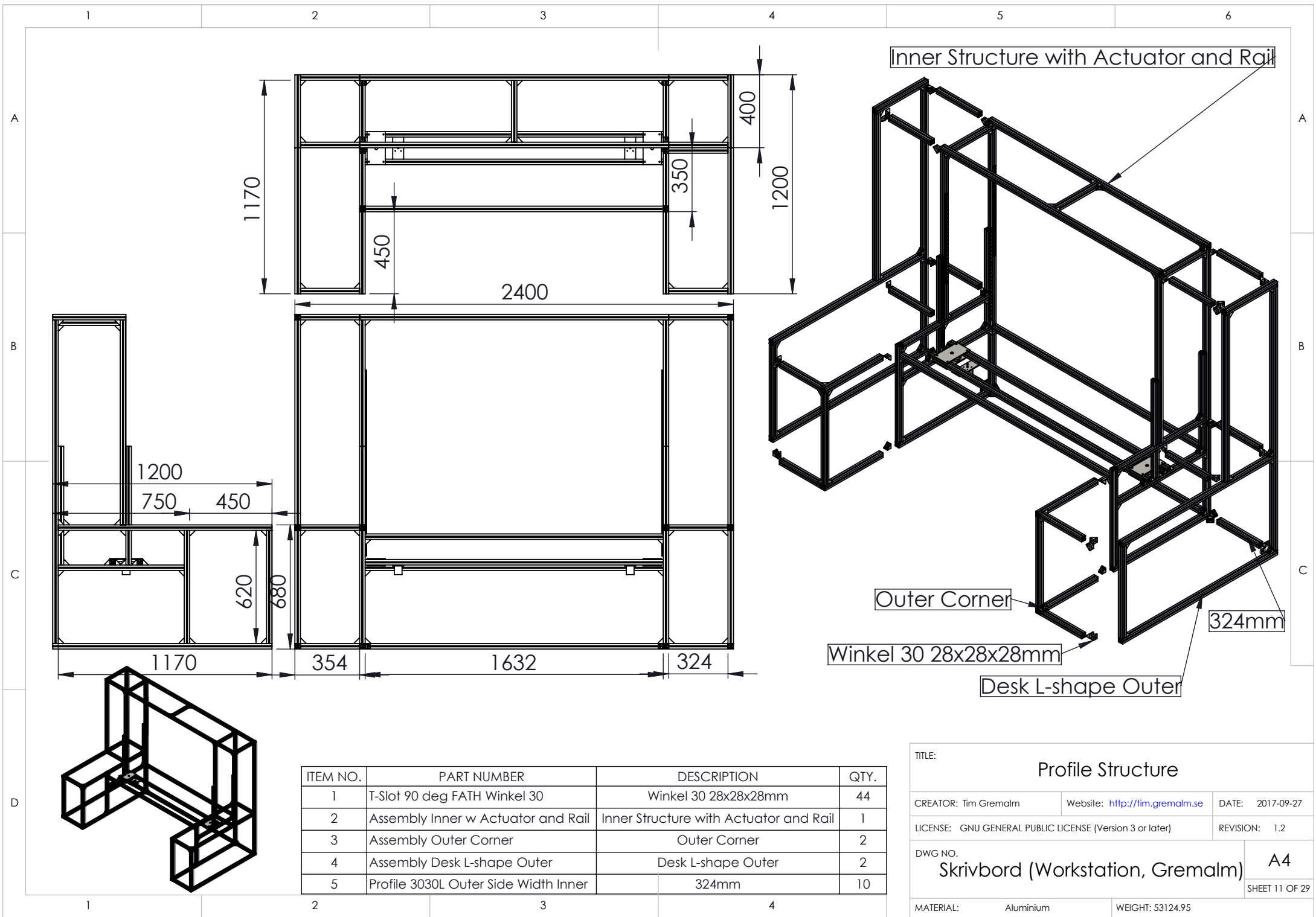




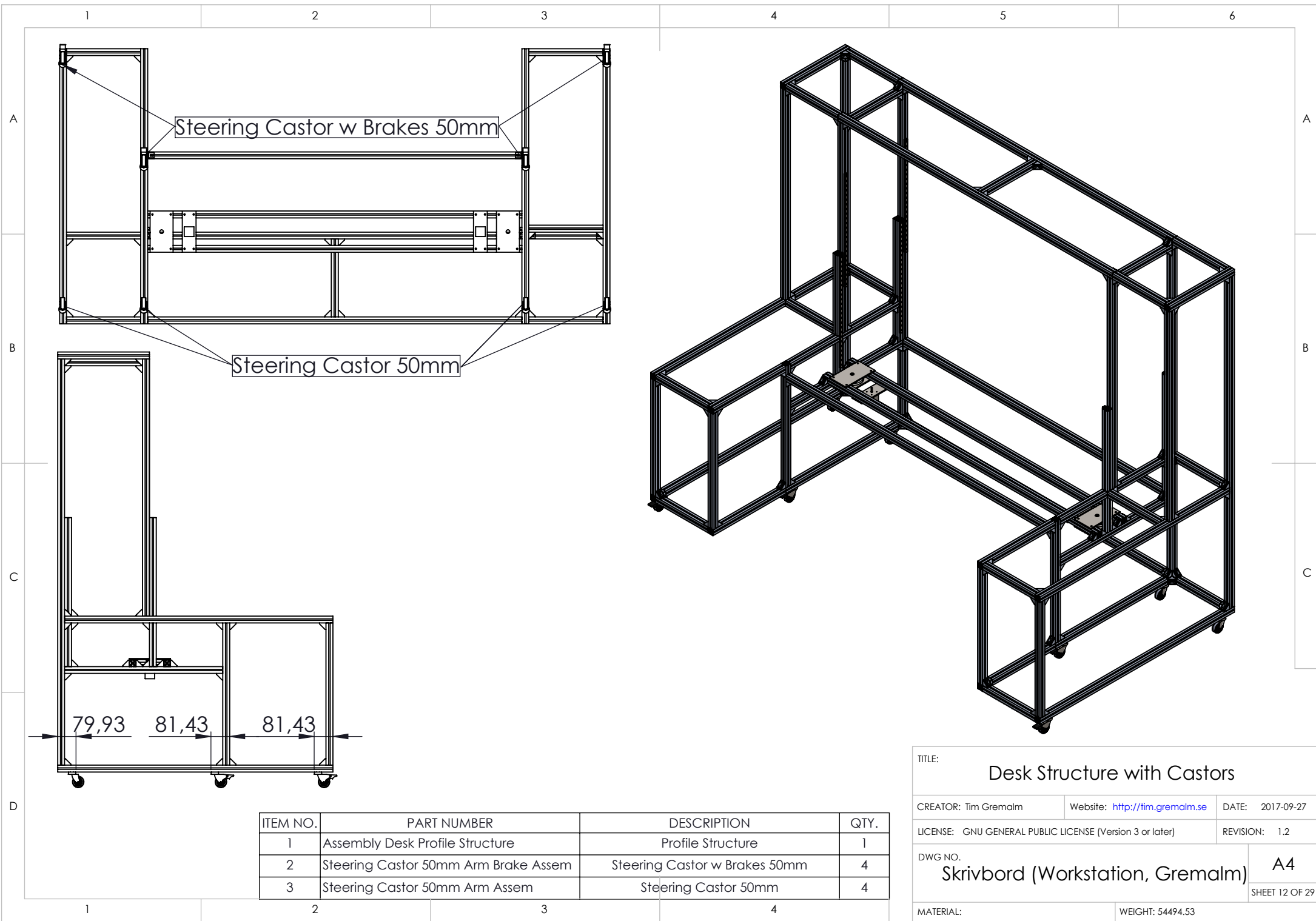


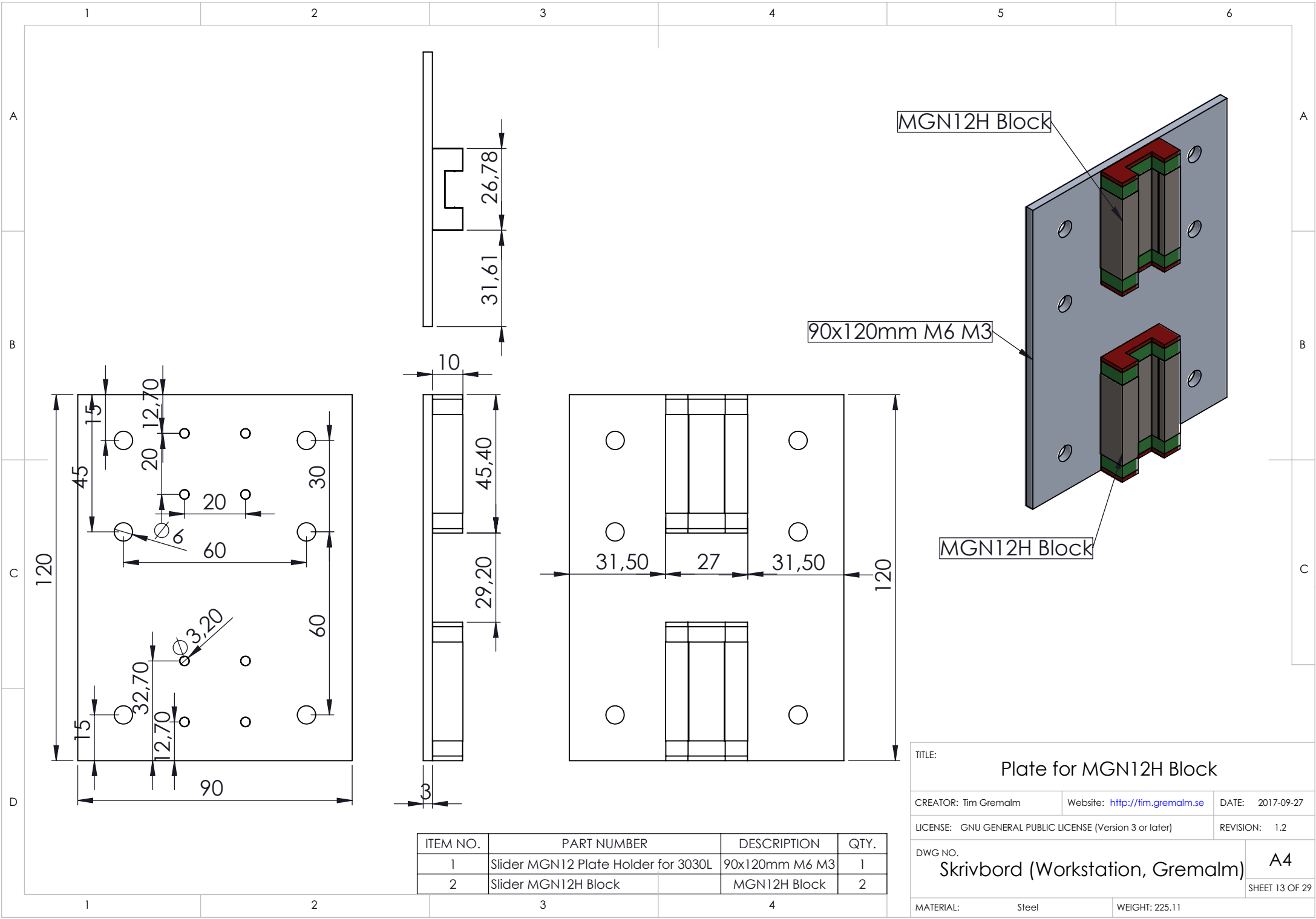
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	6
2	Profile 3030L Outer Side Width Inner	324mm	2
3	Profile 3030L Outer Side Depth3	450mm	2
4	Profile 3030L Outer Height Desk2	620mm	1

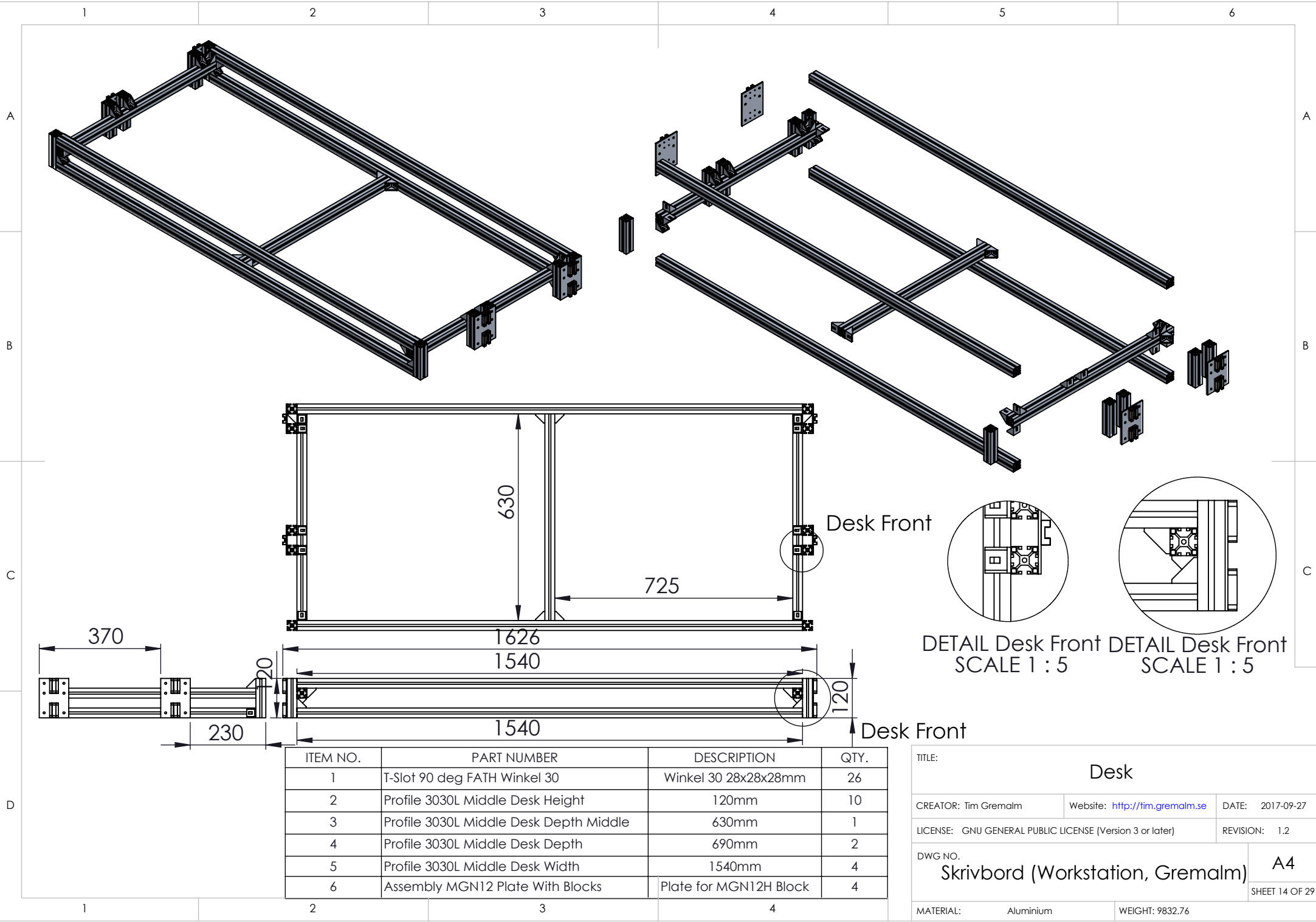
TITLE: Outer Corner		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Aluminium		WEIGHT: 2066.42
SHEET 10 OF 29		



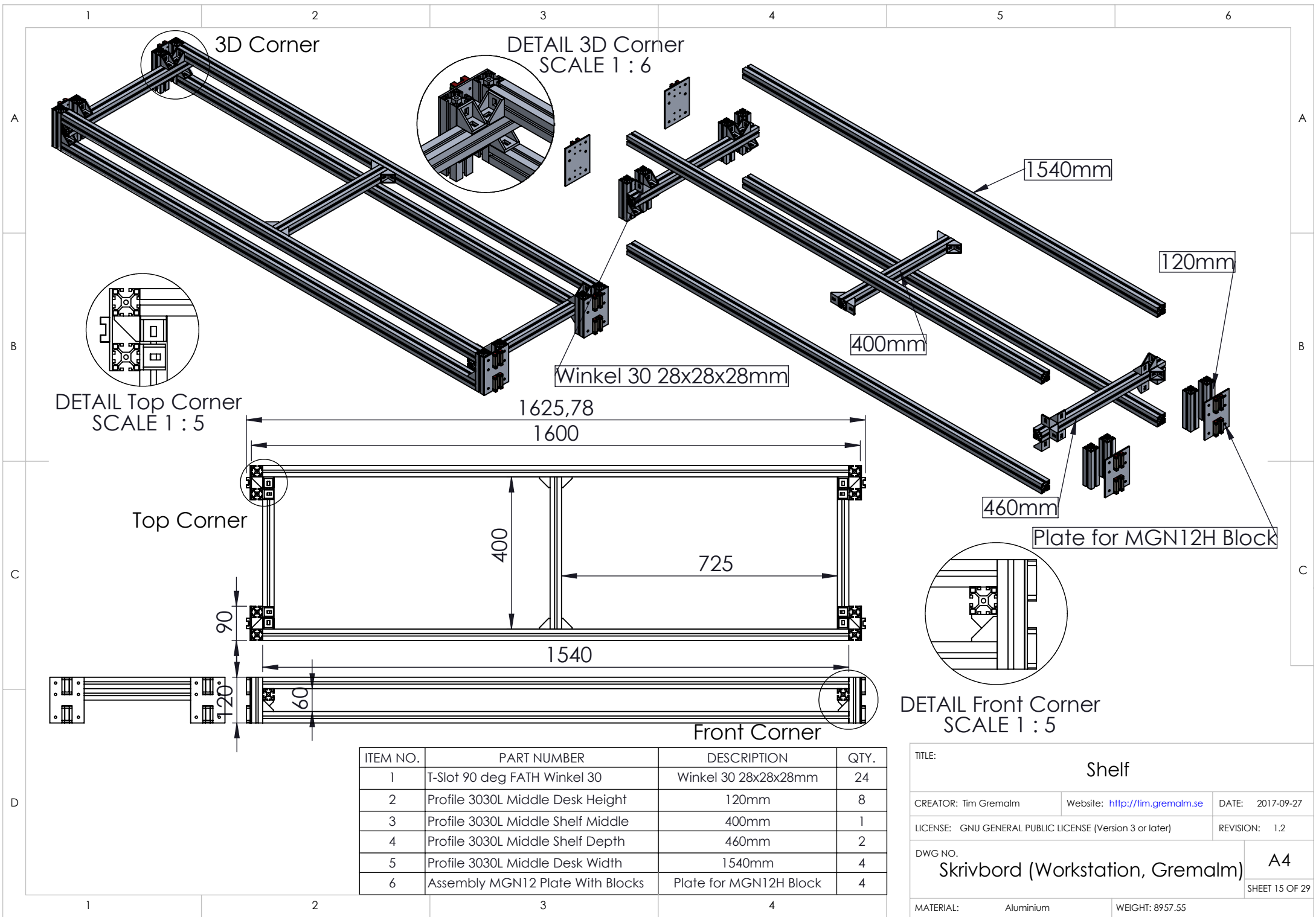
TITLE: Profile Structure		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Aluminium		WEIGHT: 53124.95
SHEET 11 OF 29		



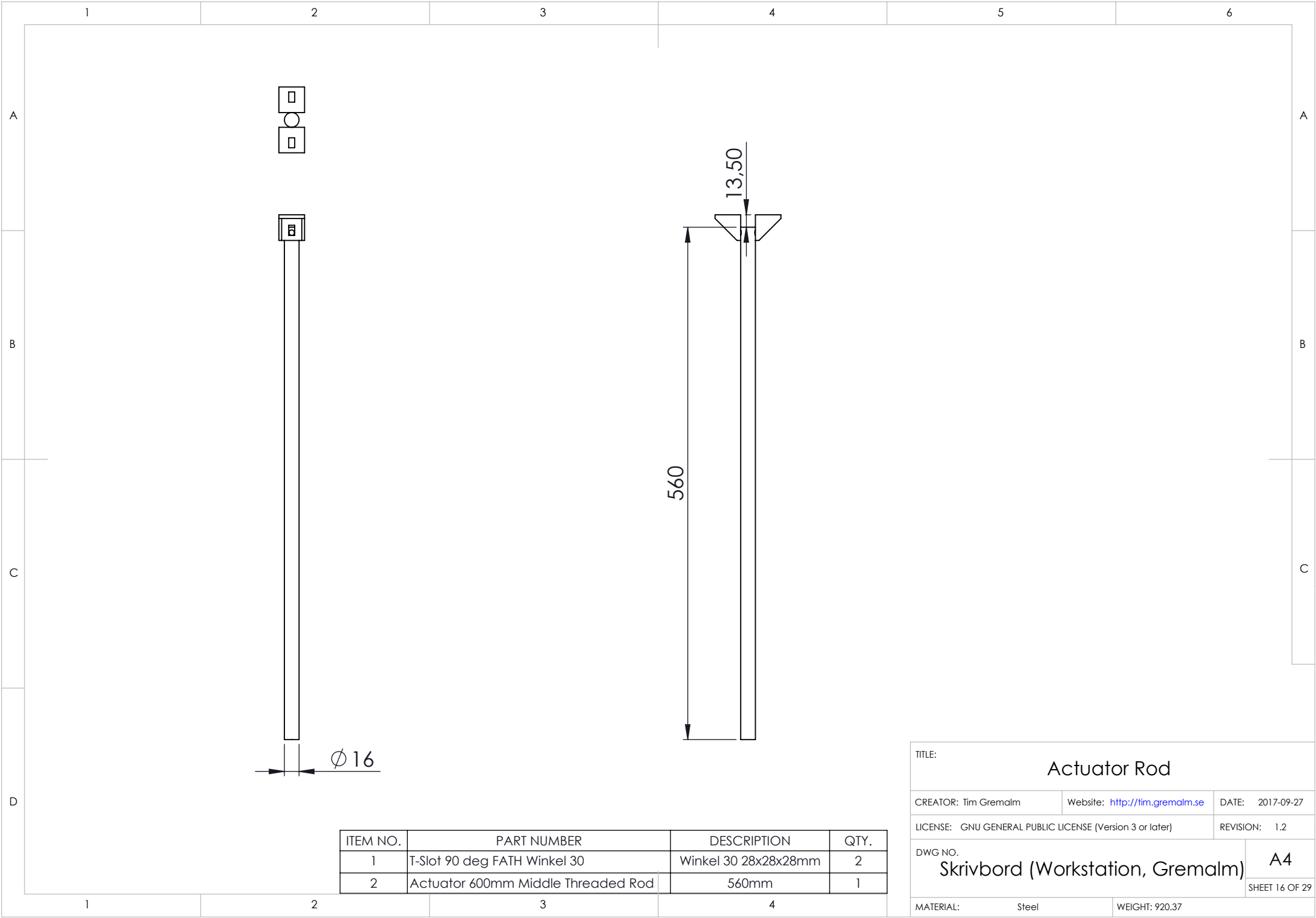




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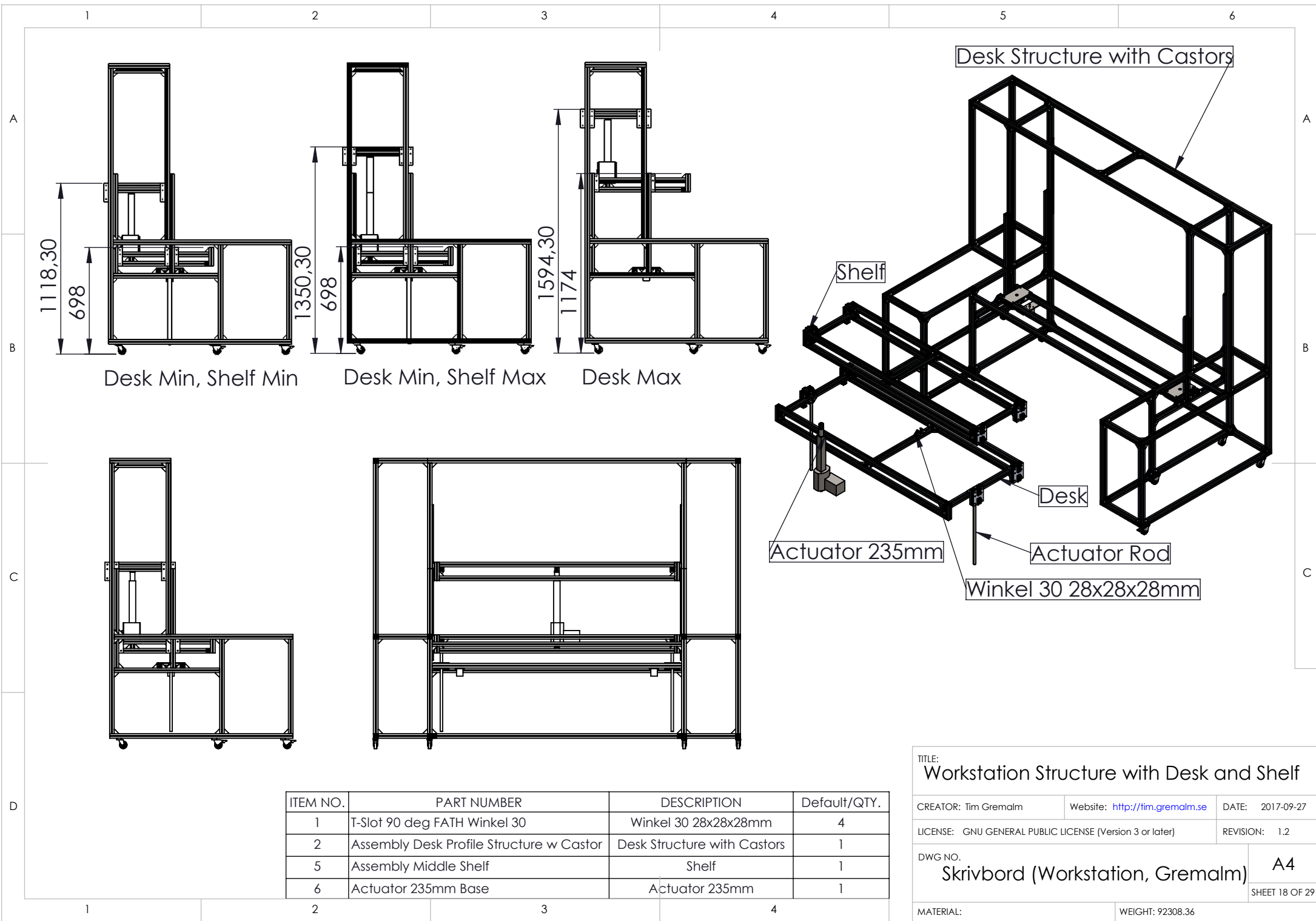


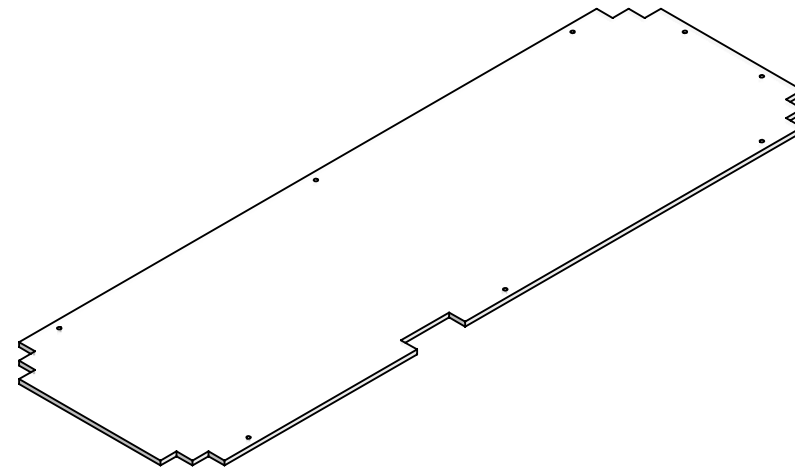
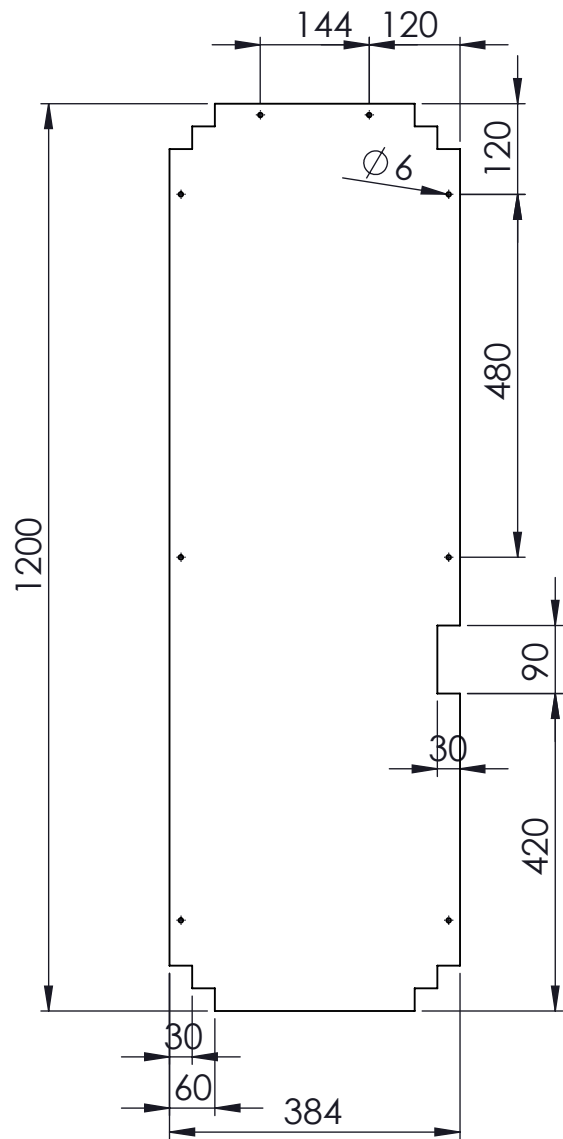
TITLE: Shelf		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Aluminium		WEIGHT: 8957.55
SHEET 15 OF 29		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	2
2	Actuator 600mm Middle Threaded Rod	560mm	1

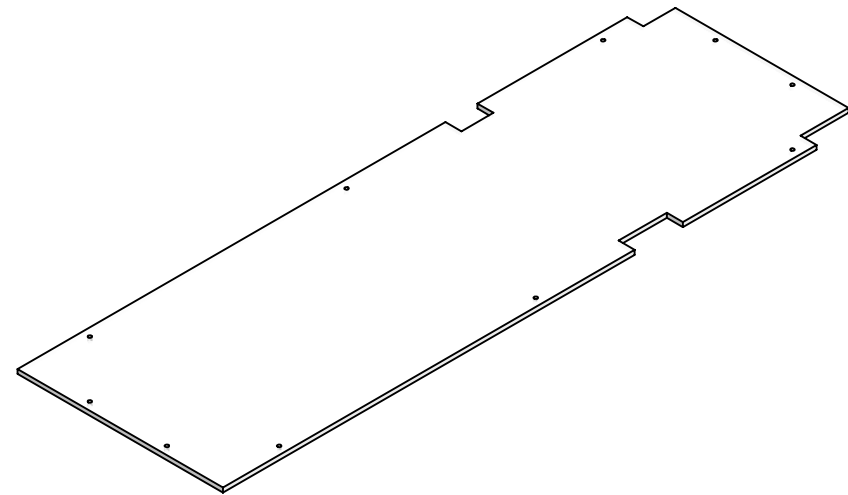
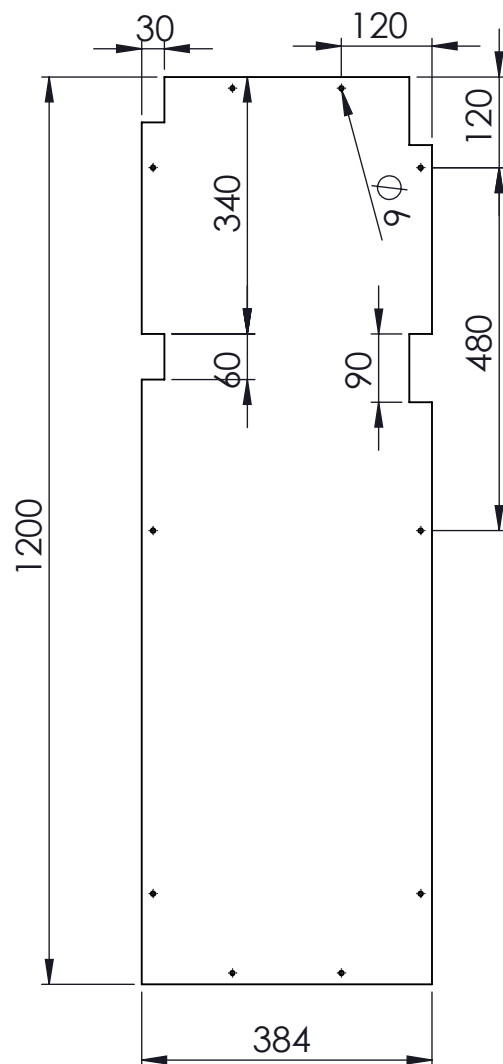
TITLE: Actuator Rod		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Steel		WEIGHT: 920.37
SHEET 16 OF 29		





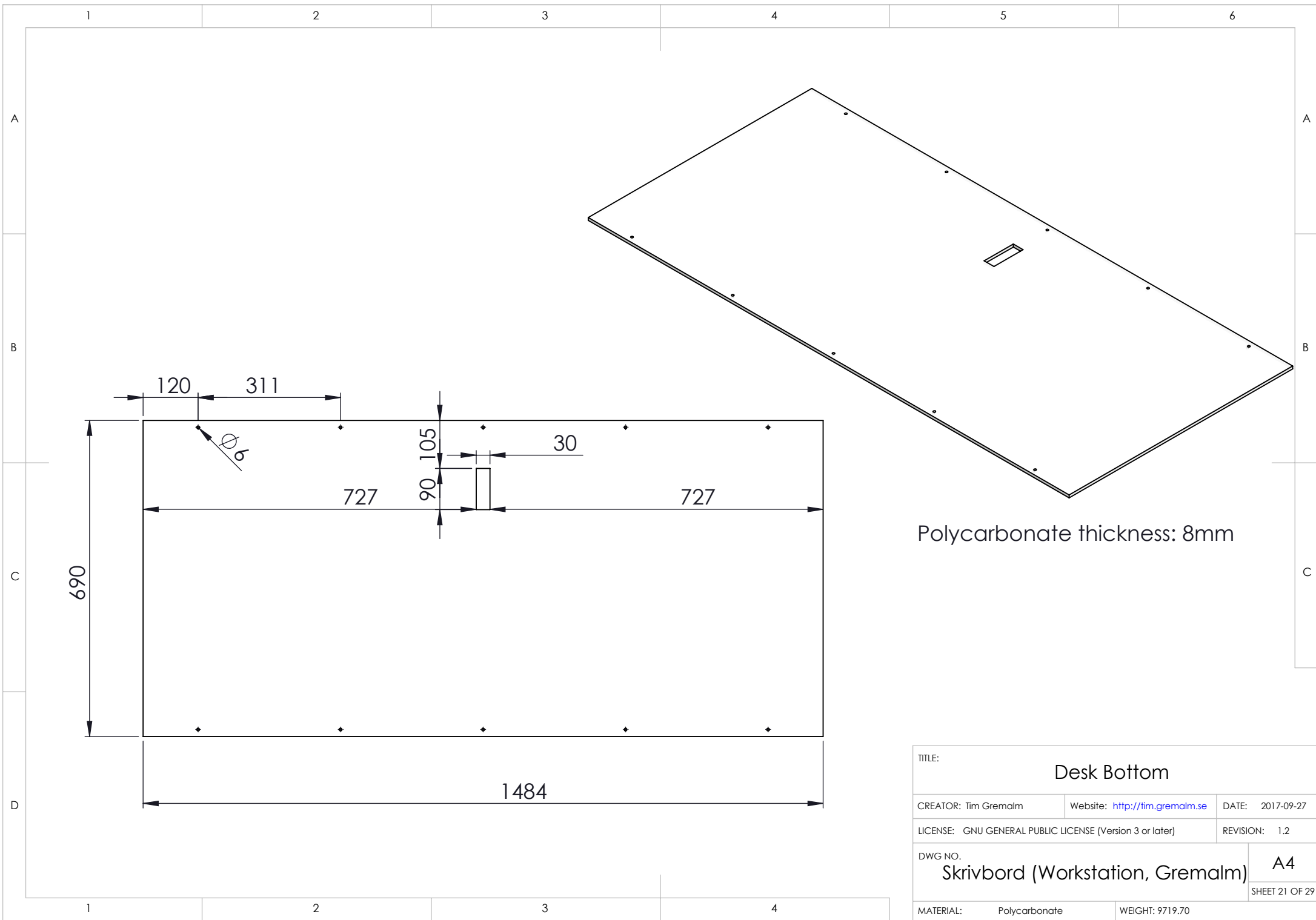
Polycarbonate thickness: 8mm

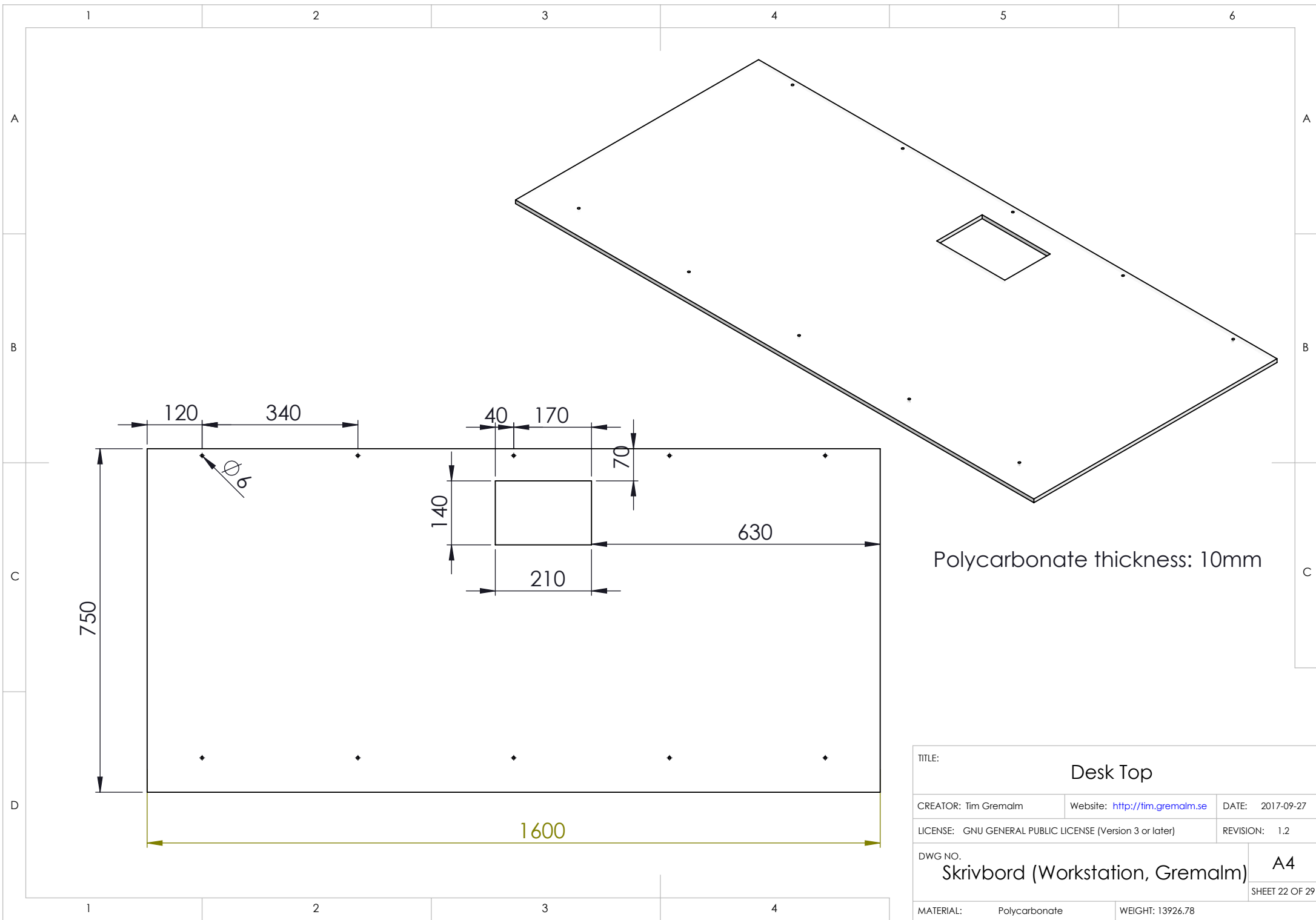
TITLE: Outer Shelf Bottom		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Polycarbonate		WEIGHT: 4256,14
SHEET 19 OF 29		



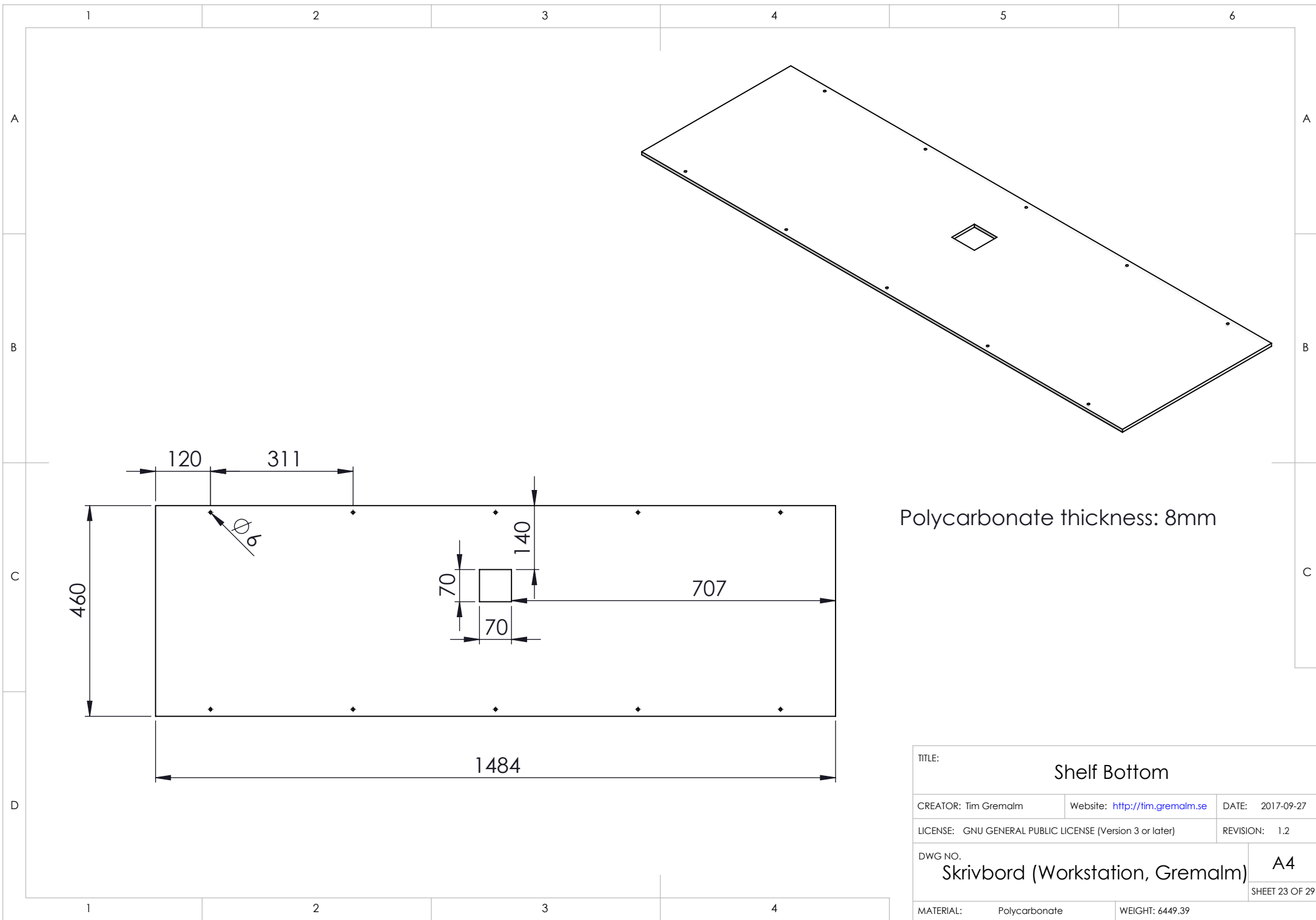
Polycarbonate thickness: 8mm

TITLE: Outer Shelf Top		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Polycarbonate		WEIGHT: 4298.44
SHEET 20 OF 29		

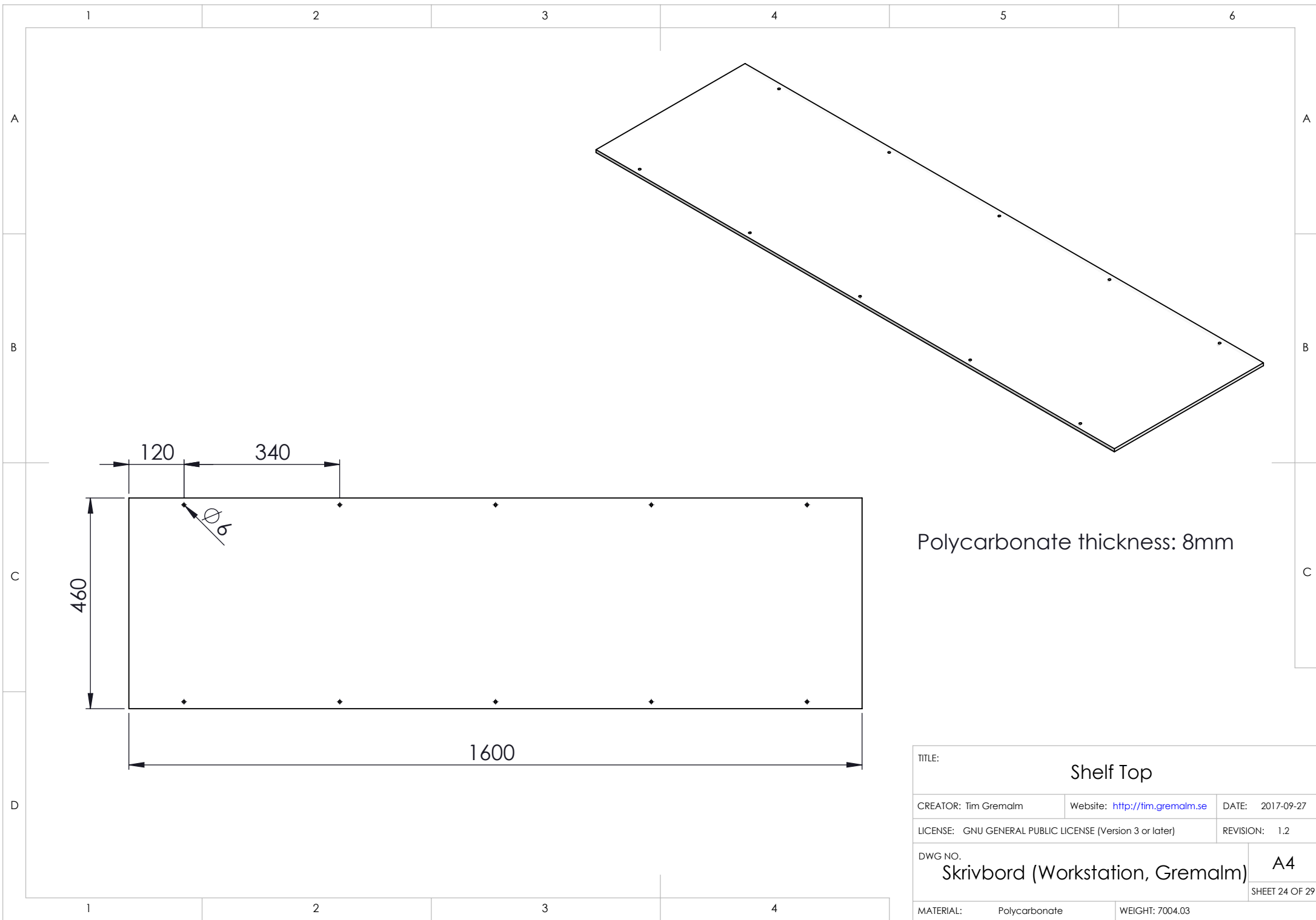


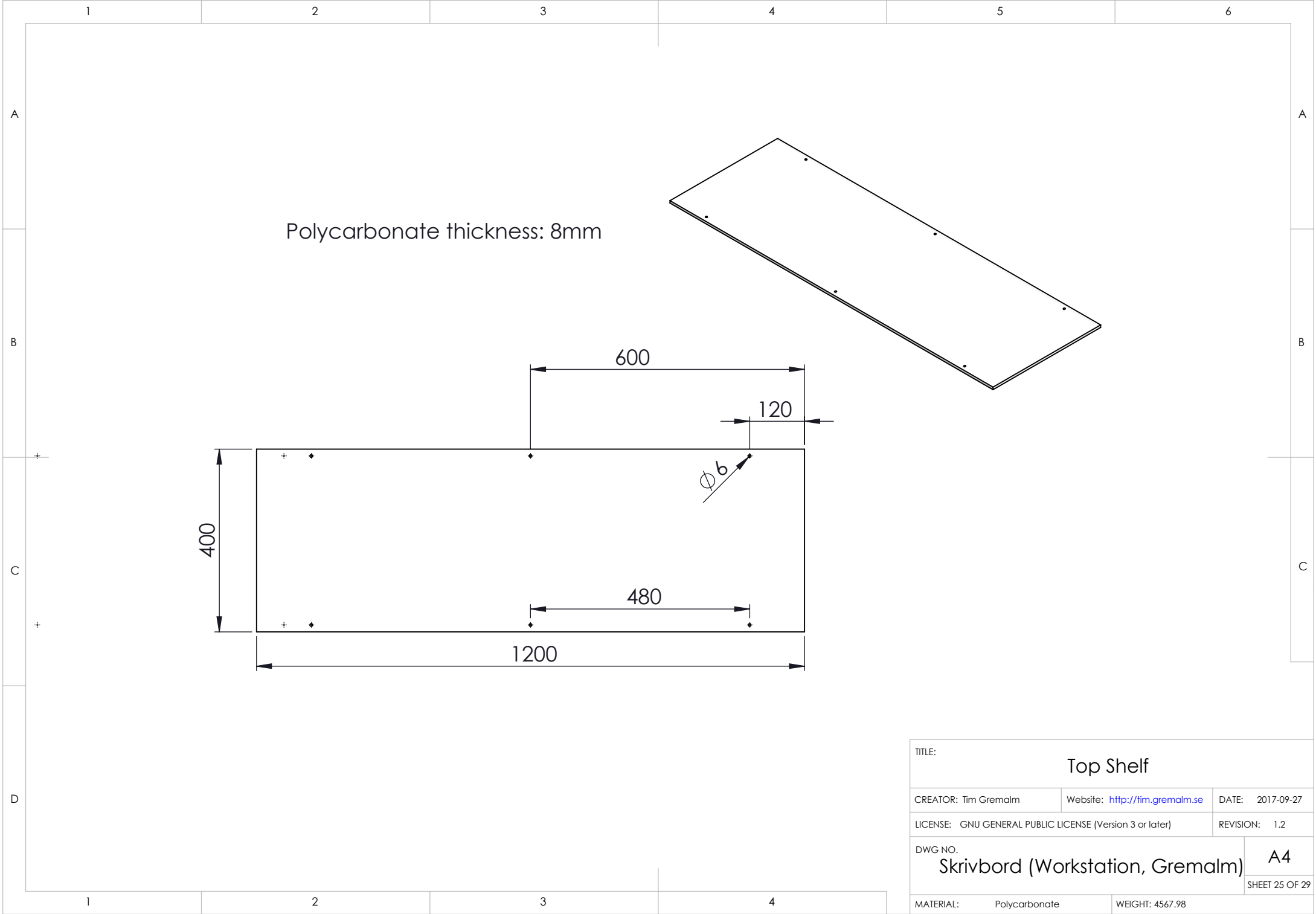


TITLE: Desk Top		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Polycarbonate		WEIGHT: 13926.78
SHEET 22 OF 29		

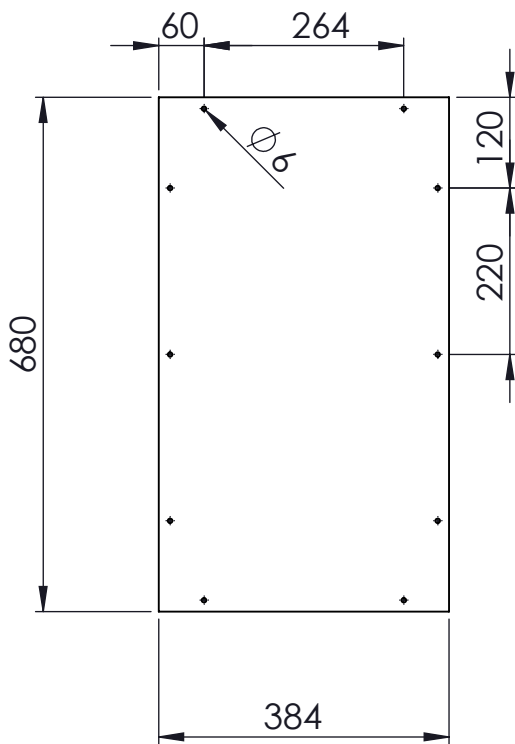


TITLE: Shelf Bottom		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Polycarbonate		WEIGHT: 6449.39
SHEET 23 OF 29		



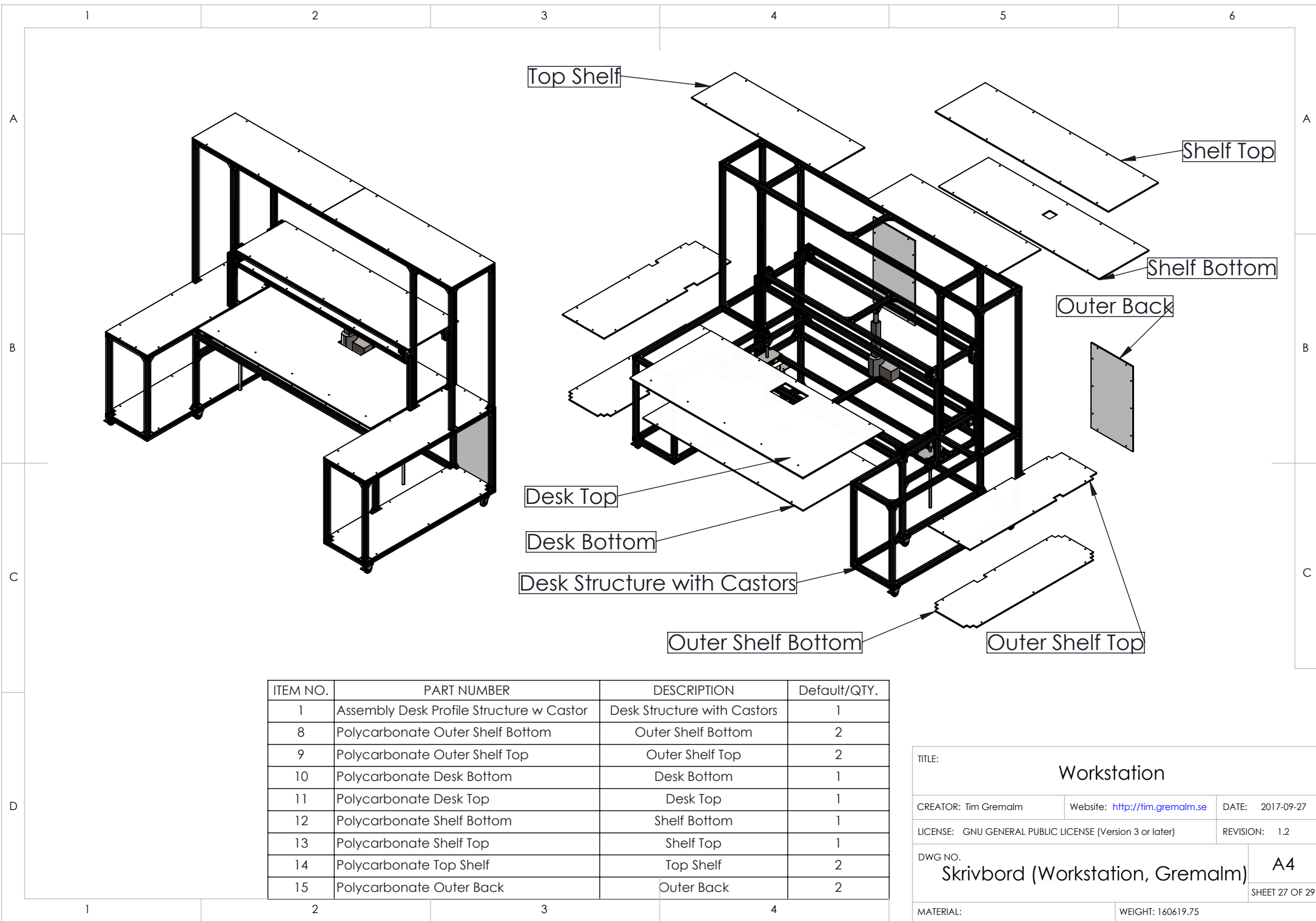


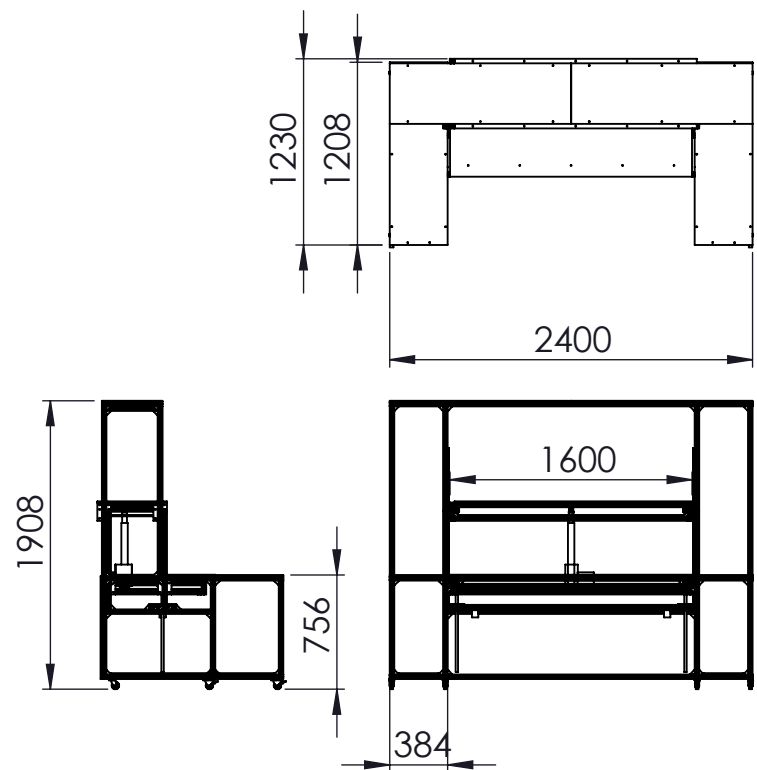
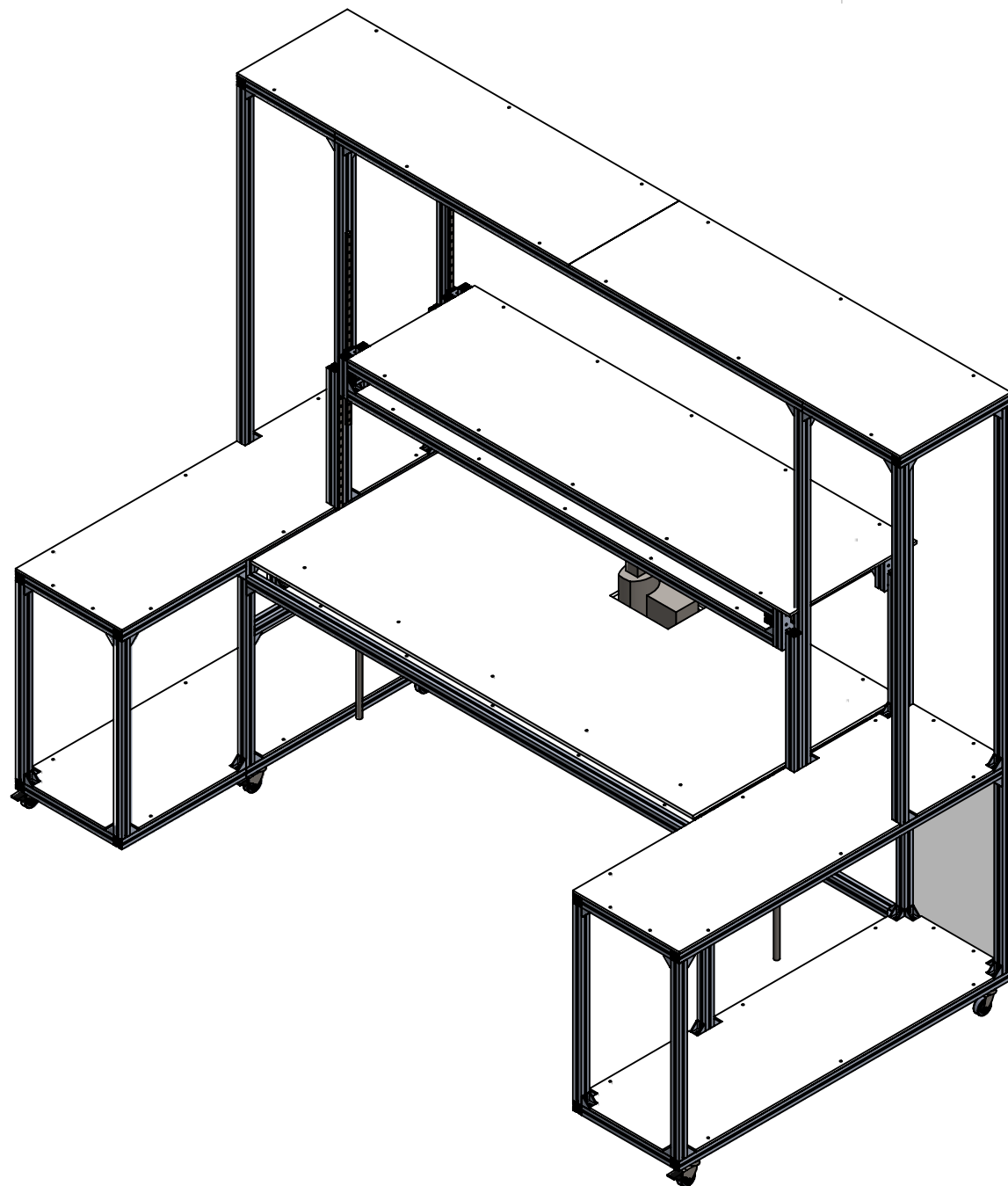
TITLE: Top Shelf		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Polycarbonate		WEIGHT: 4567.98
SHEET 25 OF 29		



Polycarbonate thickness: 8mm

TITLE: Outer Back		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL: Polycarbonate		WEIGHT: 2483.17
SHEET 26 OF 29		





TITLE: Workstation		
CREATOR: Tim Gremalm	Website: http://tim.gremalm.se	DATE: 2017-09-27
LICENSE: GNU GENERAL PUBLIC LICENSE (Version 3 or later)		REVISION: 1.2
DWG NO. Skrivbord (Workstation, Gremalm)		A4
MATERIAL:		WEIGHT: 160619.75
SHEET 28 OF 29		

BOM (in order)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Assembly Desk Profile Structure w Castor	Desk Structure with Castors	1
1.1	Assembly Desk Profile Structure	Profile Structure	1
1.1.1	Assembly Inner w Actuator and Rail	Inner Structure with Actuator and Rail	1
1.1.1.1	Assembly Inner w Actuator	Inner Sructure with Actuator	1
1.1.1.1.1	Assembly Inner Structure	Inner Structure	1
1.1.1.1.1.1	Assembly Desk L-shape Inner	Desk Side L-shape Inner	2
1.1.1.1.1.1.1	Profile 3030L Outer Depth Outer	750mm	1
1.1.1.1.1.1.2	Profile 3030L Outer Depth Inner	690mm	2
1.1.1.1.1.1.3	Profile 3030L Outer Depth Shelf Inner	340mm	1
1.1.1.1.1.1.4	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	13
1.1.1.1.1.1.5	Profile 3030L Outer Height Middle Actuator Desk	190mm	2
1.1.1.1.1.1.6	Profile 3030L Outer Height Desk	650mm	1
1.1.1.1.1.1.7	Profile 3030L Outer Height Top	1772mm	1
1.1.1.1.1.1.8	Profile 3030L Outer Height Desk Top	1122mm	1
1.1.1.1.1.1.9	Profile 3030L Outer Height Desk Rail	430mm	2
1.1.1.1.1.2	Profile 3030L Outer Width Outer	1692mm	2
1.1.1.1.1.3	Profile 3030L Outer Depth Shelf Inner	340mm	1
1.1.1.1.1.4	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	20
1.1.1.1.1.5	Profile 3030L Outer Width Inner	1632mm	3
1.1.1.1.2	Assembly Actuator Desk	Actuator Desk	1
1.1.1.1.2.1	Profile 3030L Outer Width Outer	1692mm	2
1.1.1.1.2.2	Actuator 600mm Plate Actuator Pulley	Plate Pulley 100x180x5mm	4
1.1.1.1.2.3	Actuator 600mm Bearing Axial 17x30x9mm	Bearing 17x30x9mm	4
1.1.1.1.2.4	Actuator 600mm Plate Actuator Nema17	Plate Nema17 60x180x5mm	2
1.1.1.1.2.5	Actuator 600mm Pulley Nut M16	Acrylic Pulley	2
1.1.1.1.2.6	Actuator 600mm Nut M16	M16	2
1.1.1.1.2.7	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	8
1.1.1.1.2.8	Motor NEMA 17 Stepper Motor	Stepper Nema17	2
1.1.1.2	Slider MGN12 Rail	600mm	8
1.1.2	Assembly Outer Corner	Outer Corner	2
1.1.2.1	Profile 3030L Outer Side Depth3	450mm	2
1.1.2.2	Profile 3030L Outer Side Width Inner	324mm	2
1.1.2.3	Profile 3030L Outer Height Desk2	620mm	1
1.1.2.4	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	6
1.1.3	Assembly Desk L-shape Outer	Desk L-shape Outer	2
1.1.3.1	Profile 3030L Outer Side Depth Outer	1200mm	1
1.1.3.2	Profile 3030L Outer Height Top	1772mm	1
1.1.3.3	Profile 3030L Outer Height Desk2	620mm	1
1.1.3.4	Profile 3030L Outer Side Depth Inner2	1170mm	1
1.1.3.5	Profile 3030L Outer Height Desk Top	1122mm	1
1.1.3.6	Profile 3030L Outer Depth Shelf Outer	400mm	1
1.1.3.7	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	8
1.1.4	Profile 3030L Outer Side Width Inner	324mm	10
1.1.5	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	44
1.2	Steering Castor 50mm Arm Brake Assem	Steering Castor w Brakes 50mm	4
1.2.1	Steering Castor 50mm Arm Brake		1
1.2.2	Steering Castor 50mm Wheel		1
1.3	Steering Castor 50mm Arm Assem	Steering Castor 50mm	4
1.3.1	Steering Castor 50mm Arm		1
1.3.2	Steering Castor 50mm Wheel		1
2	Assembly Actuator 600mm Rod	Actuator Rod	2
2.1	Actuator 600mm Middle Threaded Rod	560mm	1
2.2	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	2
3	Assembly Desk w MGN12H Block	Desk	1
3.1	Profile 3030L Middle Desk Width	1540mm	4
3.2	Profile 3030L Middle Desk Depth	690mm	2
3.3	Profile 3030L Middle Desk Depth Middle	630mm	1
3.4	Profile 3030L Middle Desk Height	120mm	10
3.5	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	26
3.6	Assembly MGN12 Plate With Blocks	Plate for MGN12H Block	4
3.6.1	Slider MGN12 Plate Holder for 3030L	90x120mm M6 M3	1
3.6.2	Slider MGN12H Block	MGN12H Block	2
4	Assembly Middle Shelf	Shelf	1
4.1	Profile 3030L Middle Desk Width	1540mm	4
4.2	Profile 3030L Middle Shelf Depth	460mm	2
4.3	Profile 3030L Middle Shelf Middle	400mm	1
4.4	Profile 3030L Middle Desk Height	120mm	8
4.5	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	24
4.6	Assembly MGN12 Plate With Blocks	Plate for MGN12H Block	4
4.6.1	Slider MGN12 Plate Holder for 3030L	90x120mm M6 M3	1
4.6.2	Slider MGN12H Block	MGN12H Block	2
5	Actuator 235mm Base	Actuator 235mm	1
6	Actuator 235mm Rod		1
7	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	4
8	Polycarbonate Outer Shelf Bottom	Outer Shelf Bottom	2
9	Polycarbonate Outer Shelf Top	Outer Shelf Top	2
10	Polycarbonate Desk Bottom	Desk Bottom	1
11	Polycarbonate Desk Top	Desk Top	1
12	Polycarbonate Shelf Bottom	Shelf Bottom	1
13	Polycarbonate Shelf Top	Shelf Top	1
14	Polycarbonate Top Shelf	Top Shelf	2
15	Polycarbonate Outer Back	Outer Back	2

BOM (summarized)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Profile 3030L Outer Depth Outer	750mm	2
2	Profile 3030L Outer Depth Inner	690mm	4
3	Profile 3030L Outer Depth Shelf Inner	340mm	3
4	T-Slot 90 deg FATH Winkel 30	Winkel 30 28x28x28mm	184
5	Profile 3030L Outer Height Middle Actuator Desk	190mm	4
6	Profile 3030L Outer Height Desk	650mm	2
7	Profile 3030L Outer Height Top	1772mm	4
8	Profile 3030L Outer Height Desk Top	1122mm	4
9	Profile 3030L Outer Height Desk Rail	430mm	4
10	Profile 3030L Outer Width Outer	1692mm	4
11	Profile 3030L Outer Width Inner	1632mm	3
12	Actuator 600mm Plate Actuator Pulley	Plate Pulley 100x180x5mm	4
13	Actuator 600mm Bearing Axial 17x30x9mm	Bearing 17x30x9mm	4
14	Actuator 600mm Plate Actuator Nema17	Plate Nema17 60x180x5mm	2
15	Actuator 600mm Pulley Nut M16	Acrylic Pulley	2
16	Actuator 600mm Nut M16	M16	2
17	Motor NEMA 17 Stepper Motor	Stepper Nema17	2
18	Slider MGN12 Rail	600mm	8
19	Profile 3030L Outer Side Depth3	450mm	4
20	Profile 3030L Outer Side Width Inner	324mm	14
21	Profile 3030L Outer Height Desk2	620mm	4
22	Profile 3030L Outer Side Depth Outer	1200mm	2
23	Profile 3030L Outer Side Depth Inner2	1170mm	2
24	Profile 3030L Outer Depth Shelf Outer	400mm	2
25	Steering Castor 50mm Arm Brake		4
26	Steering Castor 50mm Wheel		8
27	Steering Castor 50mm Arm		4
28	Actuator 600mm Middle Threaded Rod	560mm	2
29	Profile 3030L Middle Desk Width	1540mm	8
30	Profile 3030L Middle Desk Depth	690mm	2
31	Profile 3030L Middle Desk Depth Middle	630mm	1
32	Profile 3030L Middle Desk Height	120mm	18
33	Slider MGN12 Plate Holder for 3030L	90x120mm M6 M3	8
34	Slider MGN12H Block	MGN12H Block	16
35	Profile 3030L Middle Shelf Depth	460mm	2
36	Profile 3030L Middle Shelf Middle	400mm	1
37	Actuator 235mm Base	Actuator 235mm	1
38	Actuator 235mm Rod		1
39	Polycarbonate Outer Shelf Bottom	Outer Shelf Bottom	2
40	Polycarbonate Outer Shelf Top	Outer Shelf Top	2
41	Polycarbonate Desk Bottom	Desk Bottom	1
42	Polycarbonate Desk Top	Desk Top	1
43	Polycarbonate Shelf Bottom	Shelf Bottom	1
44	Polycarbonate Shelf Top	Shelf Top	1
45	Polycarbonate Top Shelf	Top Shelf	2
46	Polycarbonate Outer Back	Outer Back	2