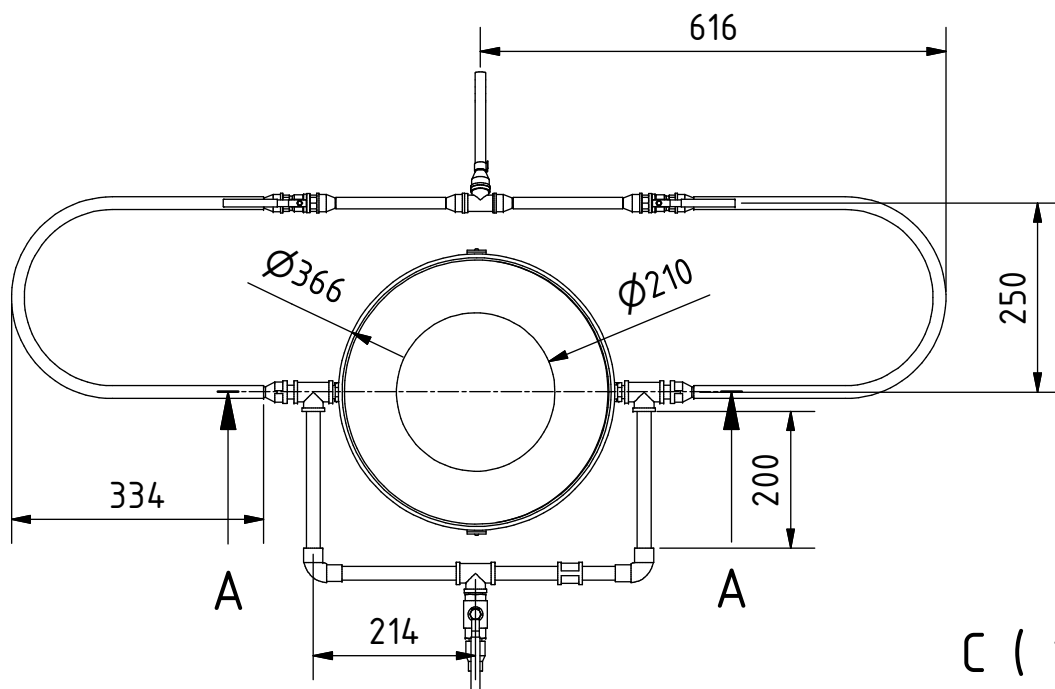
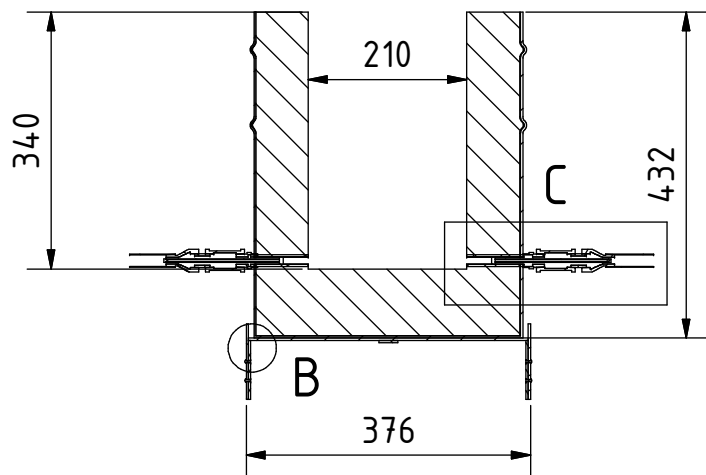


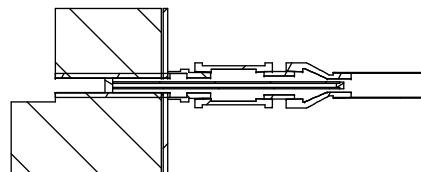
PLAN ( 1 : 10 )



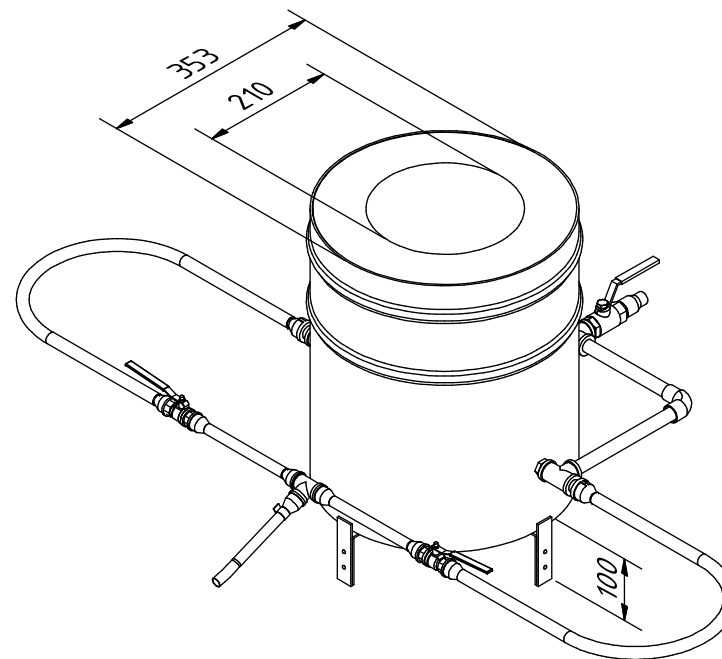
A-A ( 1 : 10 )



C ( 1 : 5 )



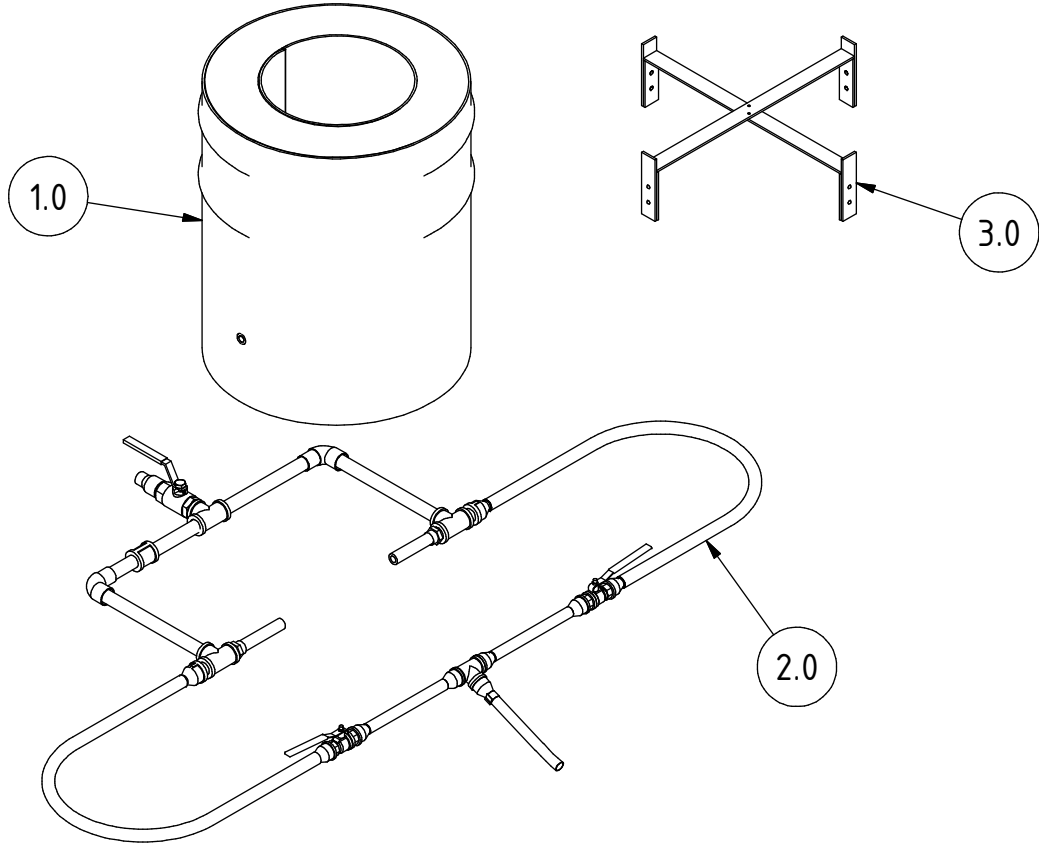
B ( 1 : 5 )

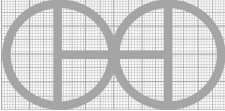


Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
3d views	pm_sf_smelting-fumace.iam			A1
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
Popular Mechanics No. 297	OHO e.V.	Assembly		1
		LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:10	1 / 16

EXPLOSION ( 1 : 10 )

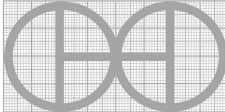


PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Exploded 3d view	pm_sf_smelting-fumace.ipn	A2		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Assembly		1
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:10	2 /16

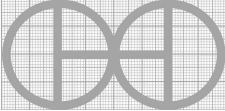
Parts list						
POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	-	3d views	pm_sf_smelting-fumace.iam	-	-	1
A2	-	Exploded 3d view	pm_sf_smelting-fumace.ipn	-	-	2
B1	-	Parts list	pm_sf_smelting-fumace.csv	-	-	3-4
C1	-	Technical notes	-	-	-	5
1.0	-	Oven	pm_sf_smelting-fumace.ipn	-	-	6
1.1	1	External mold	External mold.ipt	Production	Steel C45 sheet 22/24 Gauge	7
1.2	1	Refractory lining	Refractory lining.ipt	Production	Fire brick and refractory cement	8
1.3	1	Internal mold	Internal mold.ipt	Production	Steel C45 sheet 22/24 Gauge - remove moulds before operation	9
1.4	1	Tube	-	Buy	Galvanized Steel tube 3/8" - remove moulds before operation	-
2.0	-	Pipes and accessories	pm_sf_smelting-fumace.ipn	-	-	10
2.1	2	Burner A	-	Production	Nipple bronze 3/8" NPT L=70mm	-
2.2	2	Sleeve	-	Buy	Sleeve turned down from 1/8" pipe coupling	-
2.3	2	Burner B	-	Production	Nipple bronze 1/8" NPT L= 150mm	-
2.4	2	Bushing	-	Buy	Brass	-
2.5	2	Reducer	-	Buy	Galvanized Steel reducer 1/2" to 3/8"	-
2.6	3	Tee	-	Buy	Galvanized Steel tee 1/2"	-
2.7	5	Niple	-	Production	Galvanized Steel tube 1/2" NPT L=200mm	-
2.8	2	Elbow	-	Buy	Galvanized Steel elbow 1/2"	-
2.9	1	Union	-	Buy	Galvanized Steel union 1/2"	-
2.10	1	Valve	-	Buy	Valvule 1/2"	-
2.11	1	Mapple	Mapple.ipt	Production	Hardwood - adapter for vacuum cleaner hose	11
2.12	2	Reducer	-	Buy	Half union 3/8" tubing to 1/2" - bronze	-
2.13	4	Tubing	-	Production	Cooper tubing 3/8" NPT L= 800mm	12
2.14	2	Valve	-	Buy	3/8" two way gas valve	-
2.15	1	Tee	-	Buy	Bronze tee 3/8"	-
2.16	1	Adapter	-	Buy	Hose adapter 3/8" - bronze	-
2.17	1	Gas hose	-	Buy	Hose 3/8"	-
2.18	1	Clamp	-	Buy	Hose clamp - bronze	-

PROJECT		CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace		J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME		FILE NAME			POS
Parts list		pm_sf_smelting-fumace.csv			B1
DEVELOPED BY		REDESIGNED BY		DOC. TYPE	MATERIAL
				Parts list	
				LICENCE	SCALE
Popular Mechanics No. 297		OHO e.V.		CC-BY-SA 4.0	3 /16

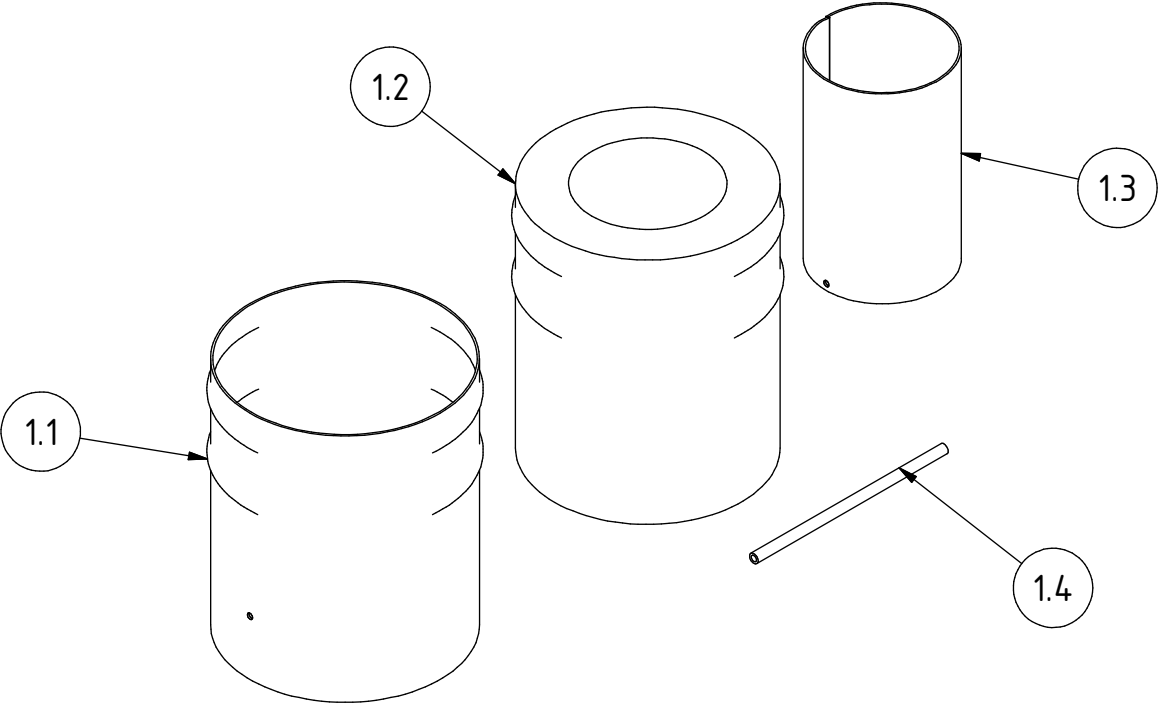
Parts list						
POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
3.0	-	Furnace stand	Furnace stand.ipn	-	-	13
3.1	2	Flat A	Flat A.ipt	Production	Steel A36 platen 3x25mm	14
3.2	2	Flat B	Flat B.ipt	Production	Steel A36 platen 3x25mm	15
3.3	2	Flat C	Flat C.ipt	Production	Steel A36 platen 3x25mm	16
3.4	10	Rivet	-	Buy	CNS 7340 3x10x6mm	-

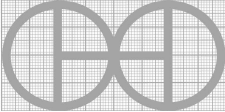
PROJECT		CREATED BY		APPROVED BY		DATE	VERSION
Smelting Furnace		J. Zeron		A. Morillo		01/08/2021	1.0
PART NAME		FILE NAME					POS
Parts list		pm_sf_smelting-fumace.csv					B1
DEVELOPED BY		REDESIGNED BY		DOC. TYPE	MATERIAL		QUANTITY
Popular Mechanics No. 297				Parts list			
				LICENCE			
OHO e.V.		CC-BY-SA 4.0		SCALE		SHEET	
						4 /16	

TECHNICL NOTES	
NOTES	CONTENT
GENERAL NOTES	
Utility	- With this small fumace you can melt down aluminum, brass and copper; preheat small, thick pieces of iron and steel for brazing or forging; caseharden soft steel; make up alloys and bake vitreus enamels on metals. You can use either LP or city gas.

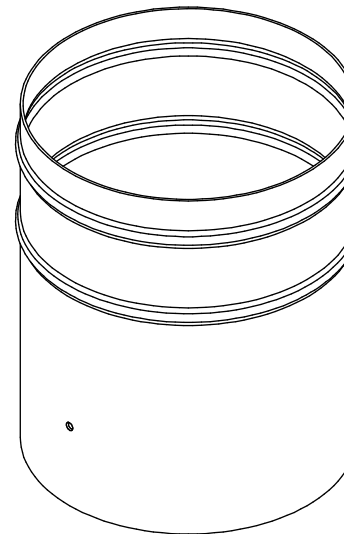
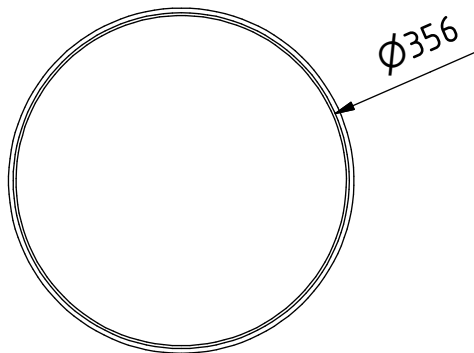
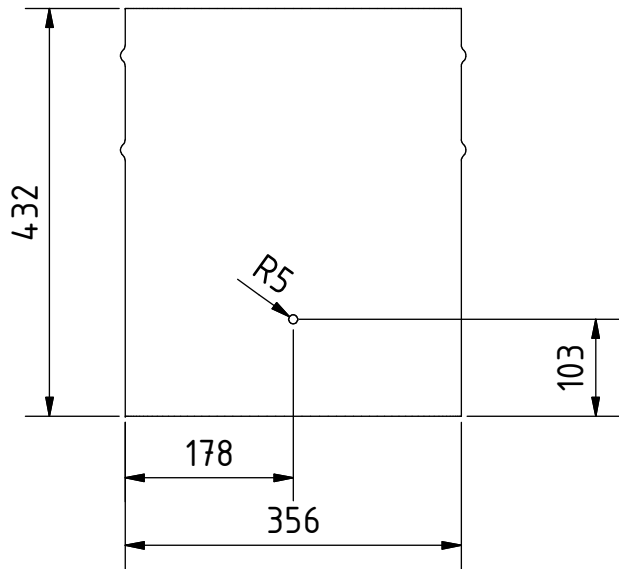
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME			POS
Technical notes				C1
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Technical notes		
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0		5 /16

EXPLOSION ( 1 : 10 )

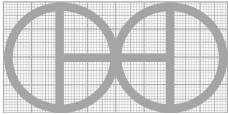


PROJECT		CREATED BY		APPROVED BY	DATE	VERSION
Smelting Furnace		J. Zeron		A. Morillo	01/08/2021	1.0
PART NAME		FILE NAME				POS
Oven		Oven.ipn				1.0
DEVELOPED BY		REDESIGNED BY		DOC. TYPE	MATERIAL	QUANTITY
				Assembly		1
Popular Mechanics No. 297		OHO e.V.		LICENCE	SCALE	SHEET
				CC-BY-SA 4.0	1:10	6 /16

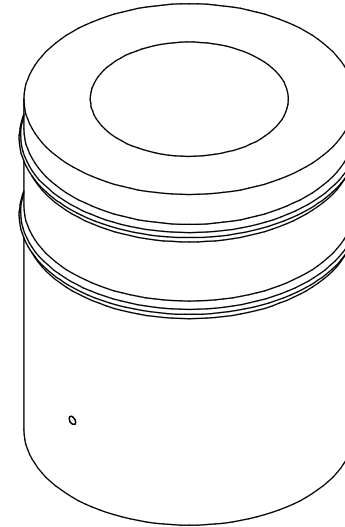
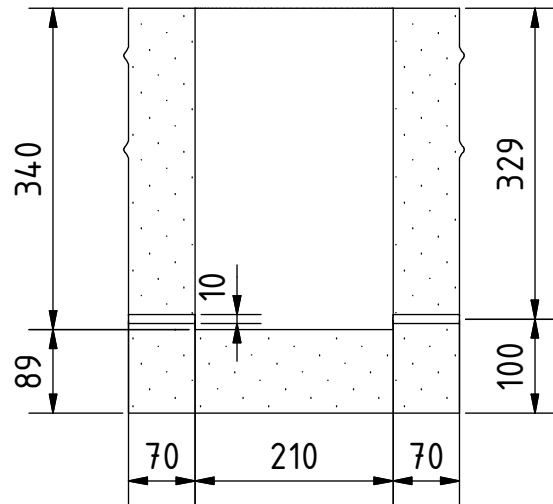
ELEVATION ( 1 : 8 )



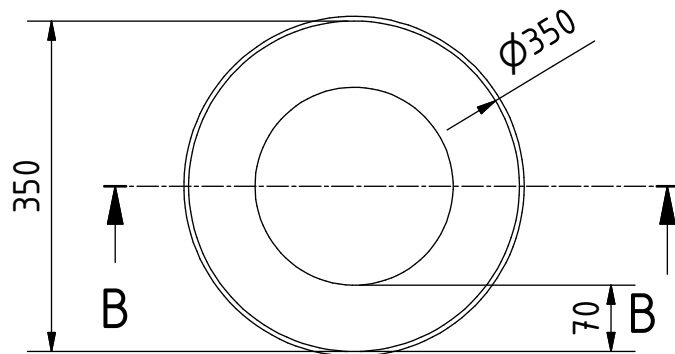
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
External mold	External mold.ipt	1.1		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Sheet steel	1
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:8	7 /16

B-B ( 1 : 8 )



PLAN ( 1 : 8 )

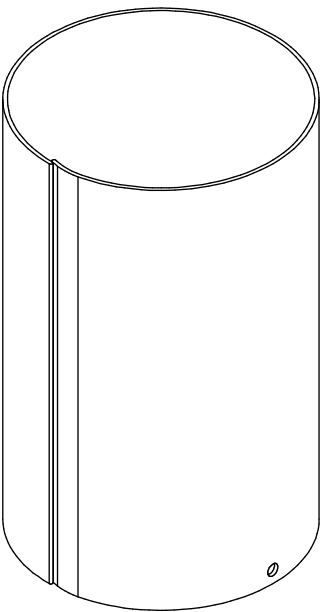
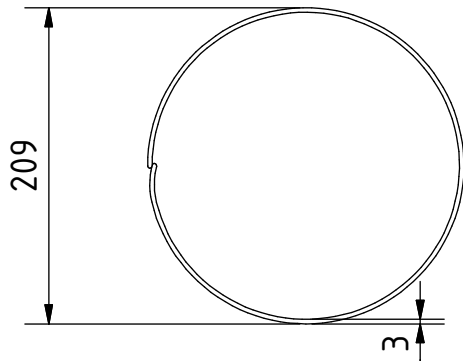
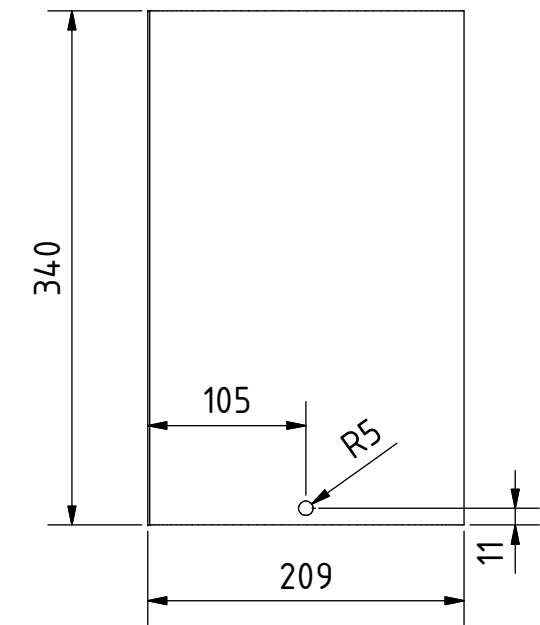


Note: All units in mm.

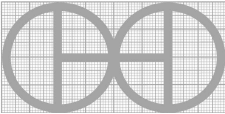
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Refractory lining	Refractory lining.ipt	1.2		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
Popular Mechanics No. 297	OHO e.V.	Part	Fire brick and refractory cement	1
		LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:8	8 /16



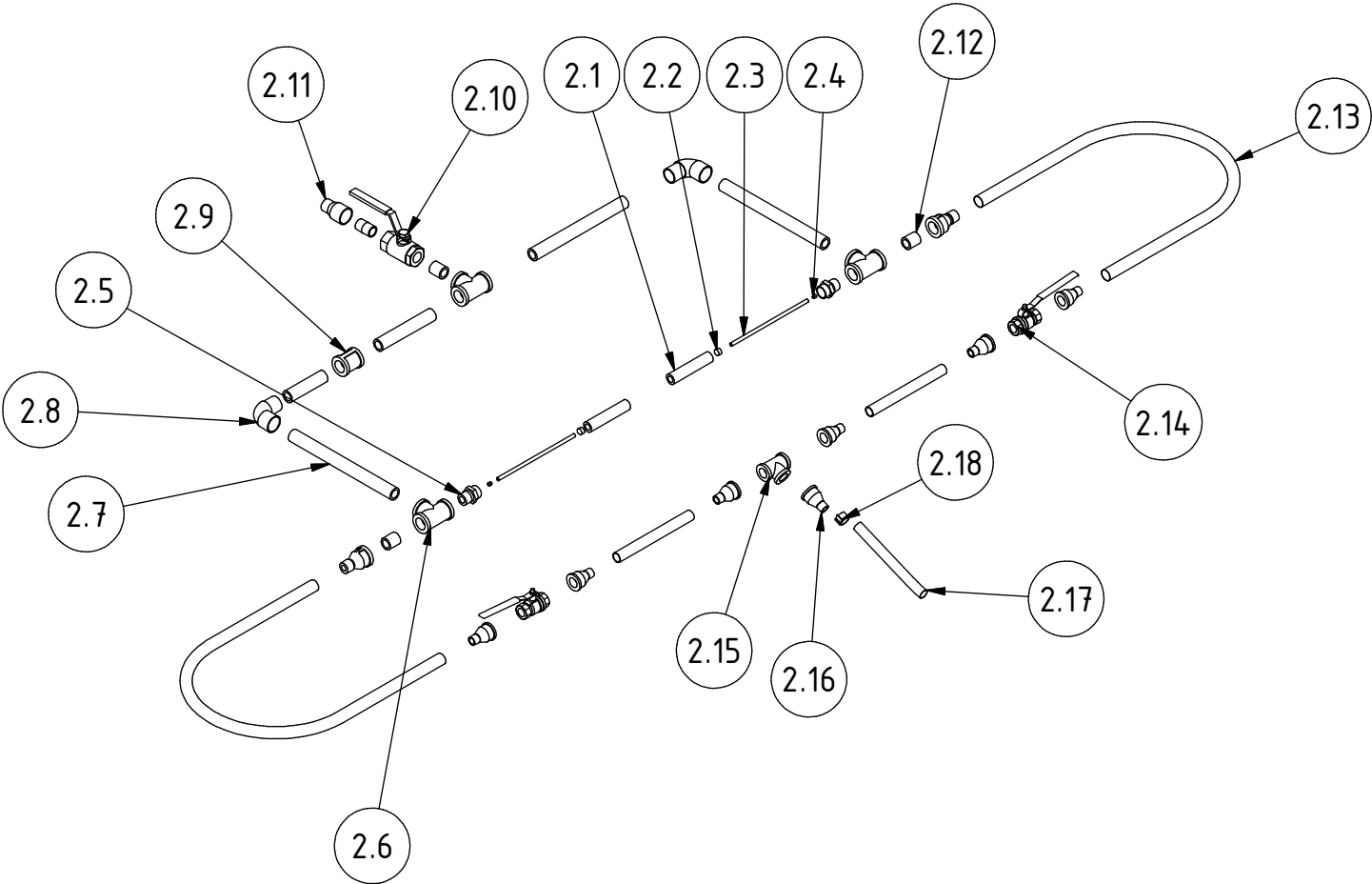
ELEVATION ( 1 : 5 )

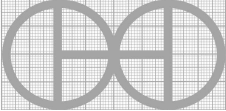


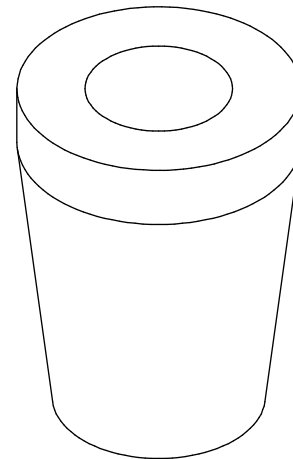
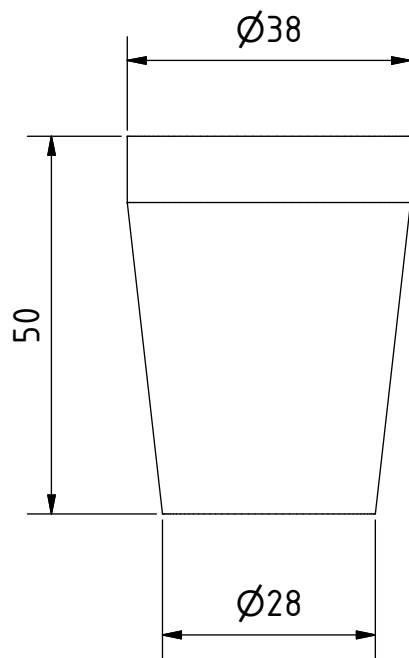
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Internald mold	Internal mold.ipt	1.3		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Steel C45	1
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:5	9 /16

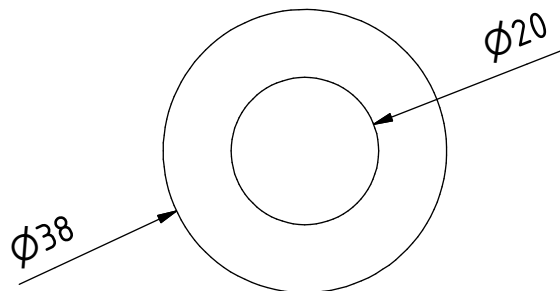
EXPLOSION ( 1 : 10 )



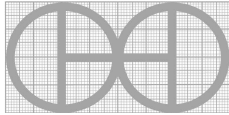
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Pipes and accessories	Pipes and accessories.ipn	2.0		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Assembly		1
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:10	10 /16



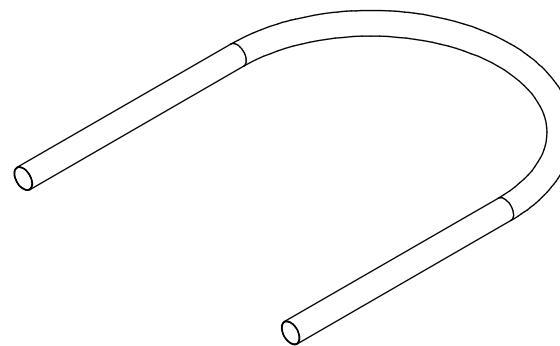
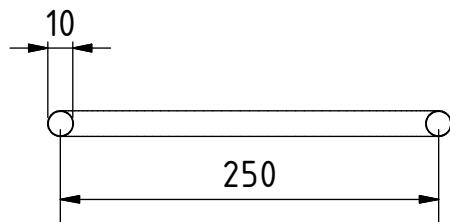
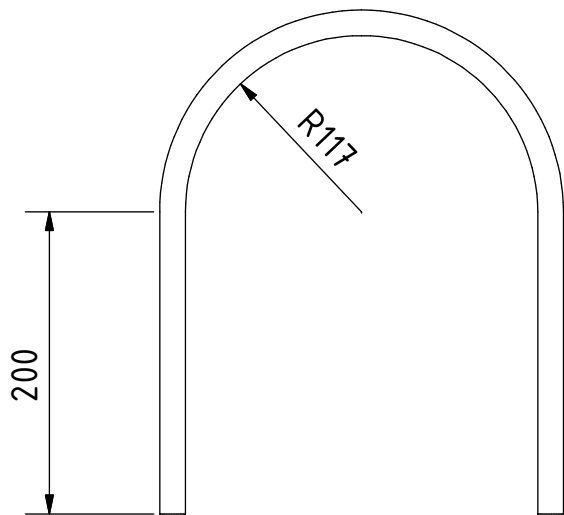
PLAN ( 1 : 1 )



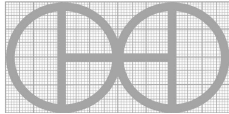
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Maple	Maple.ipt	2.11		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
Popular Mechanics No. 297		Part	Hardwood	1
		LICENCE	SCALE	SHEET
	OHO e.V.	CC-BY-SA 4.0	1:1	11 /16

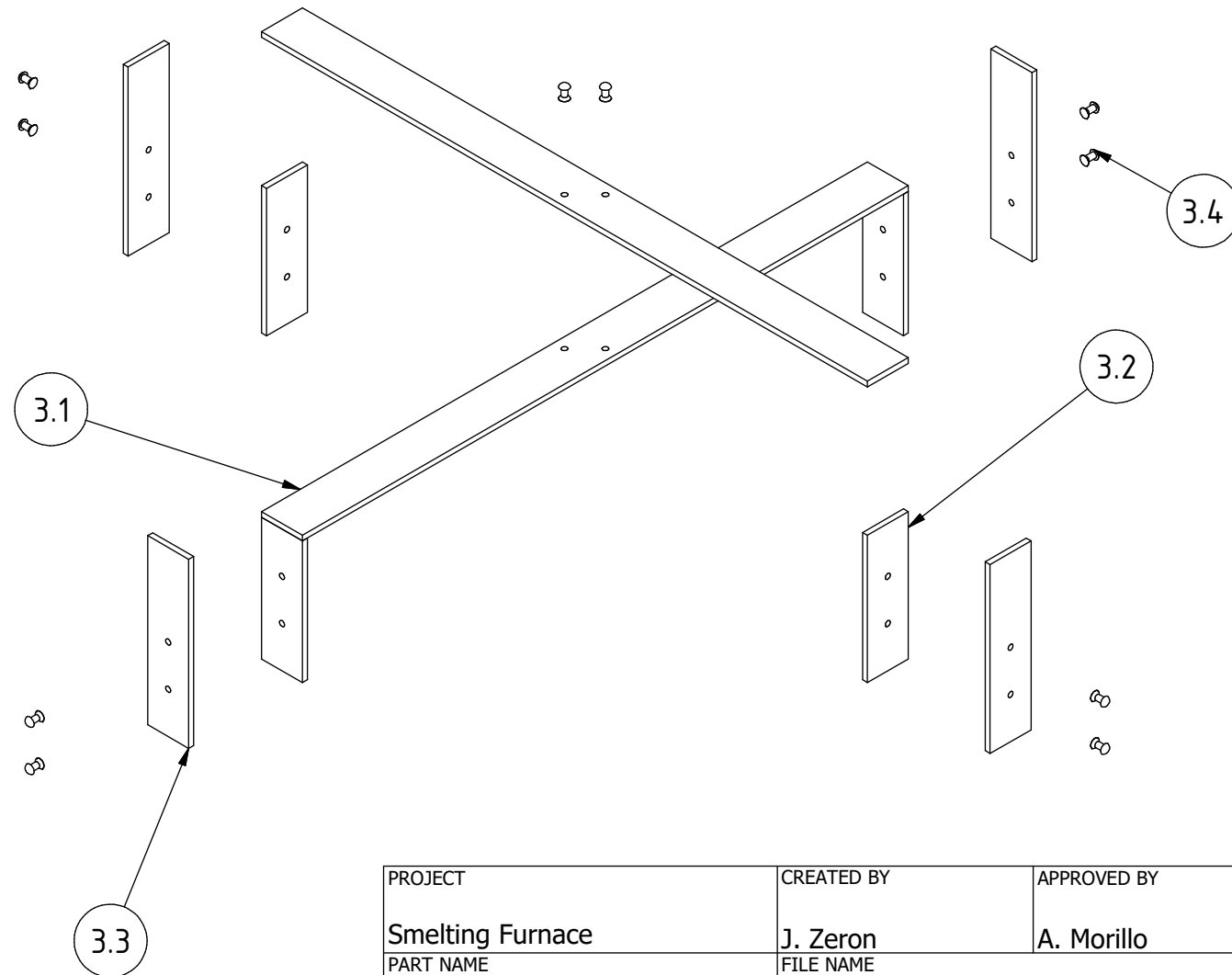
PLAN ( 1 : 5 )

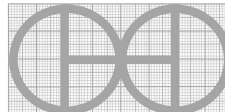


Note: All units in mm.

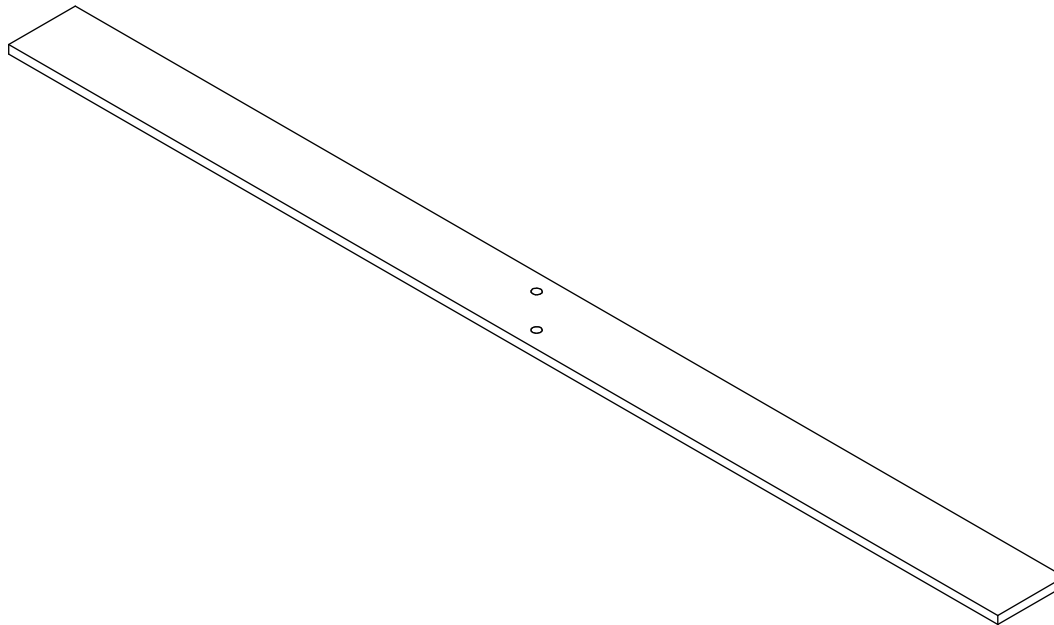
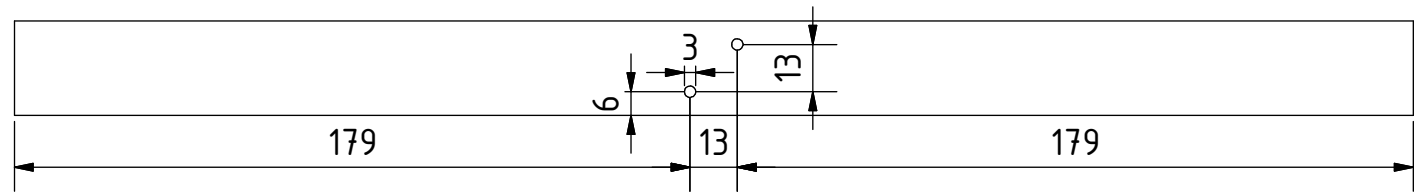
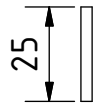
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME			POS
Tubing	Tubing.ipt			2.13
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Cooper tubing	2
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:5	12 /16

# EXPLOSION ( 1 : 3 )

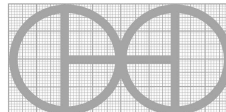


PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Furnace stand	Furnace stand.ipn	3.0		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Assembly		1
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:3	13 /16

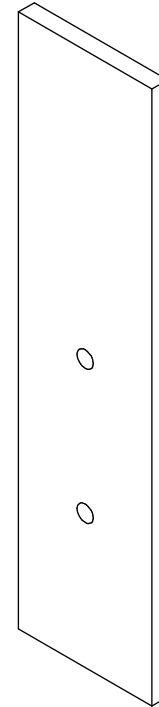
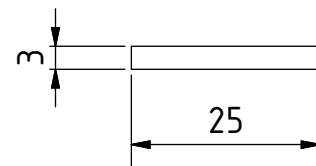
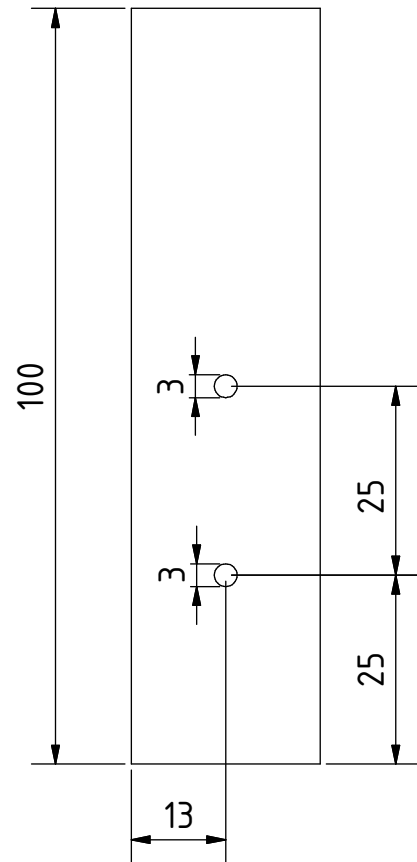
# PLAN ( 1 : 2 )



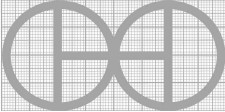
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Flat A	Flat A.ipt	3.1		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Steel A36	2
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:2	14 /16

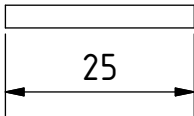
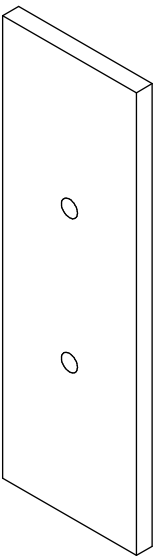
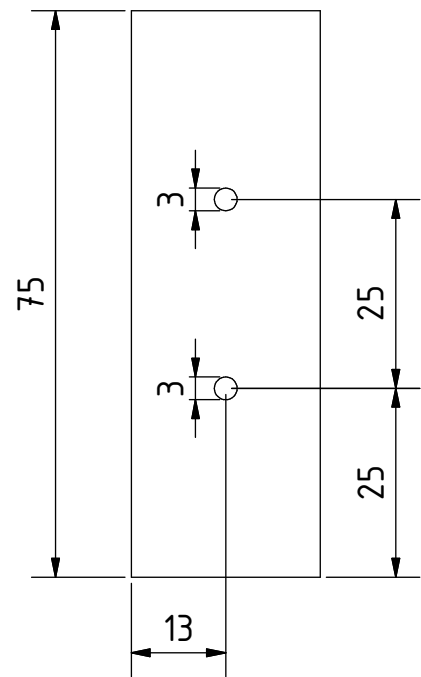
# ELEVATION ( 1 : 1 )



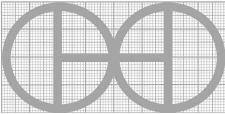
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Flat B	Flat B.ipt	3.2		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Steel A36	4
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:1	15 /16

ELEVATION ( 1 : 1 )



Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Smelting Furnace	J. Zeron	A. Morillo	01/08/2021	1.0
PART NAME	FILE NAME	POS		
Flat C	Flat C.ipt	3.3		
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Steel A36	4
Popular Mechanics No. 297	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:1	16 /16