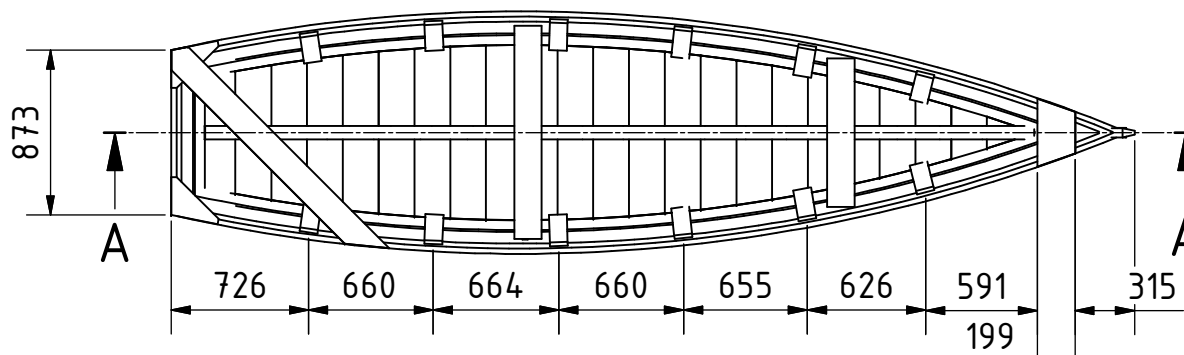
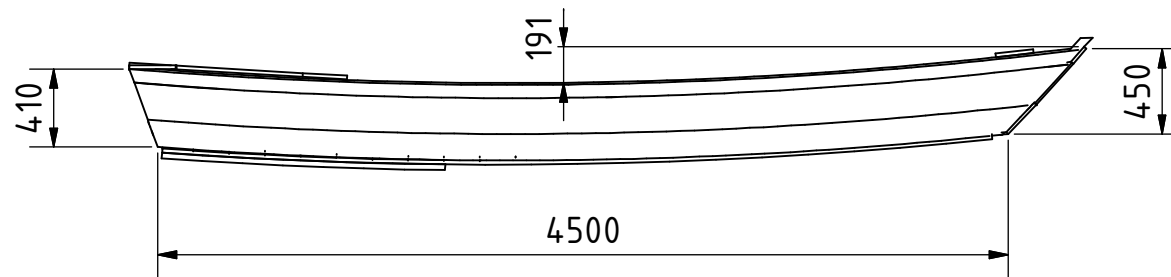
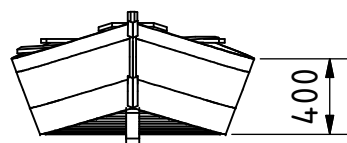
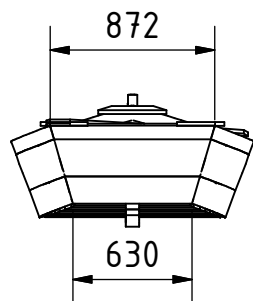
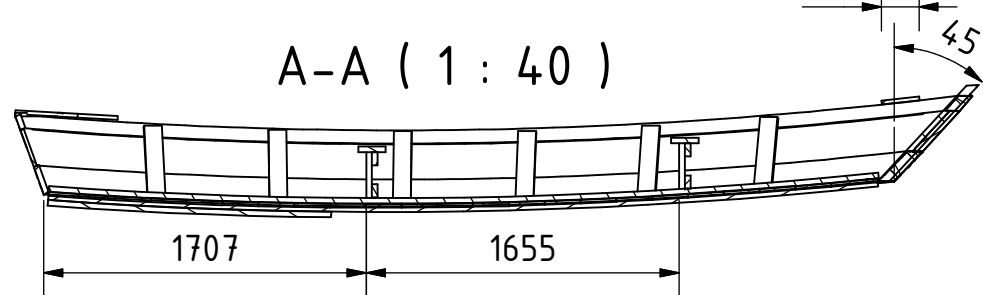


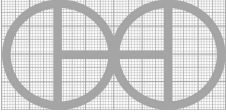
ELEVATION (1 : 40)

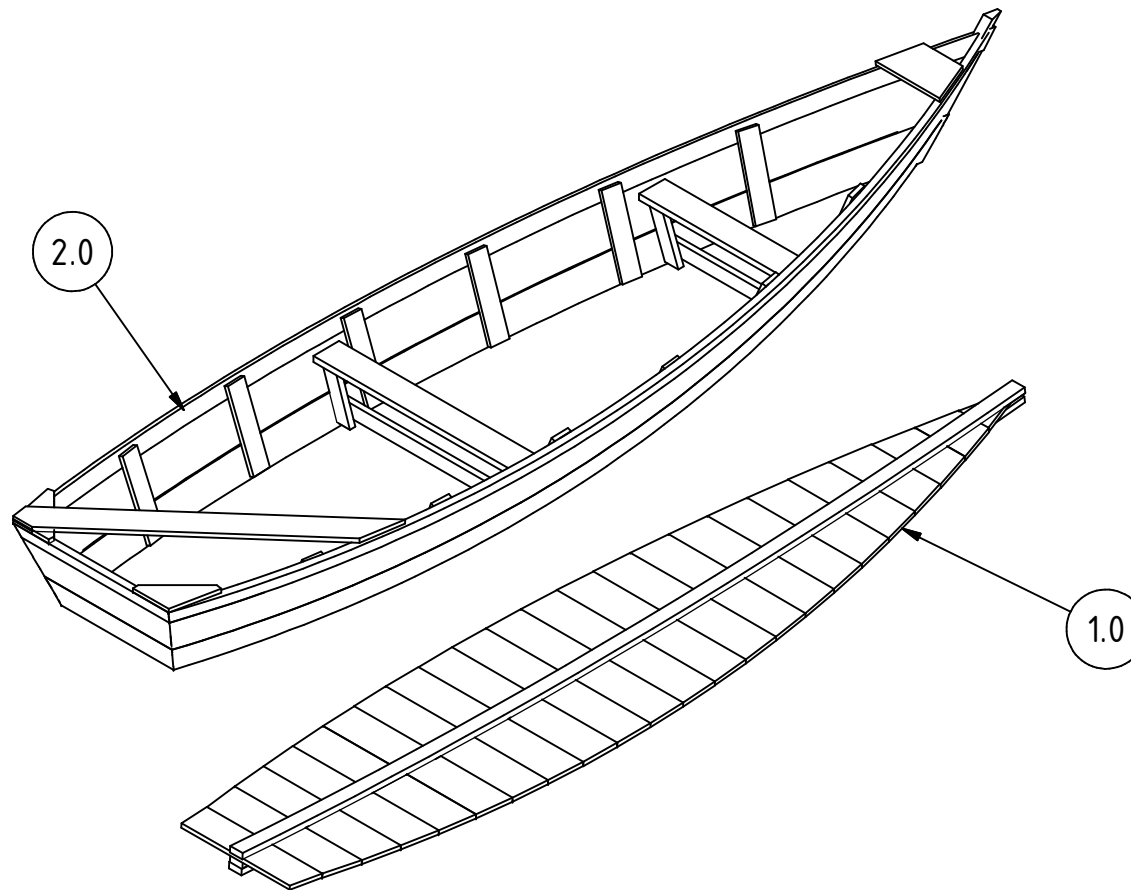


A-A (1 : 40)



Note: All units in mm.

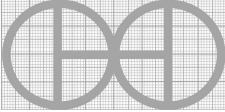
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
3d views	fao_fbb_4.90m-flat-bottom-boat.iam			A1
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Assembly		1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:40	1 /25



PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Exploded 3d view	fao_fbb_4.90m-flat-bottom-boat.ipn			A2
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
FAO	OHO e.V.	Assembly		1
		LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:30	2 /25

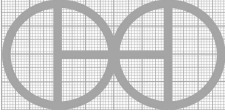
Parts list

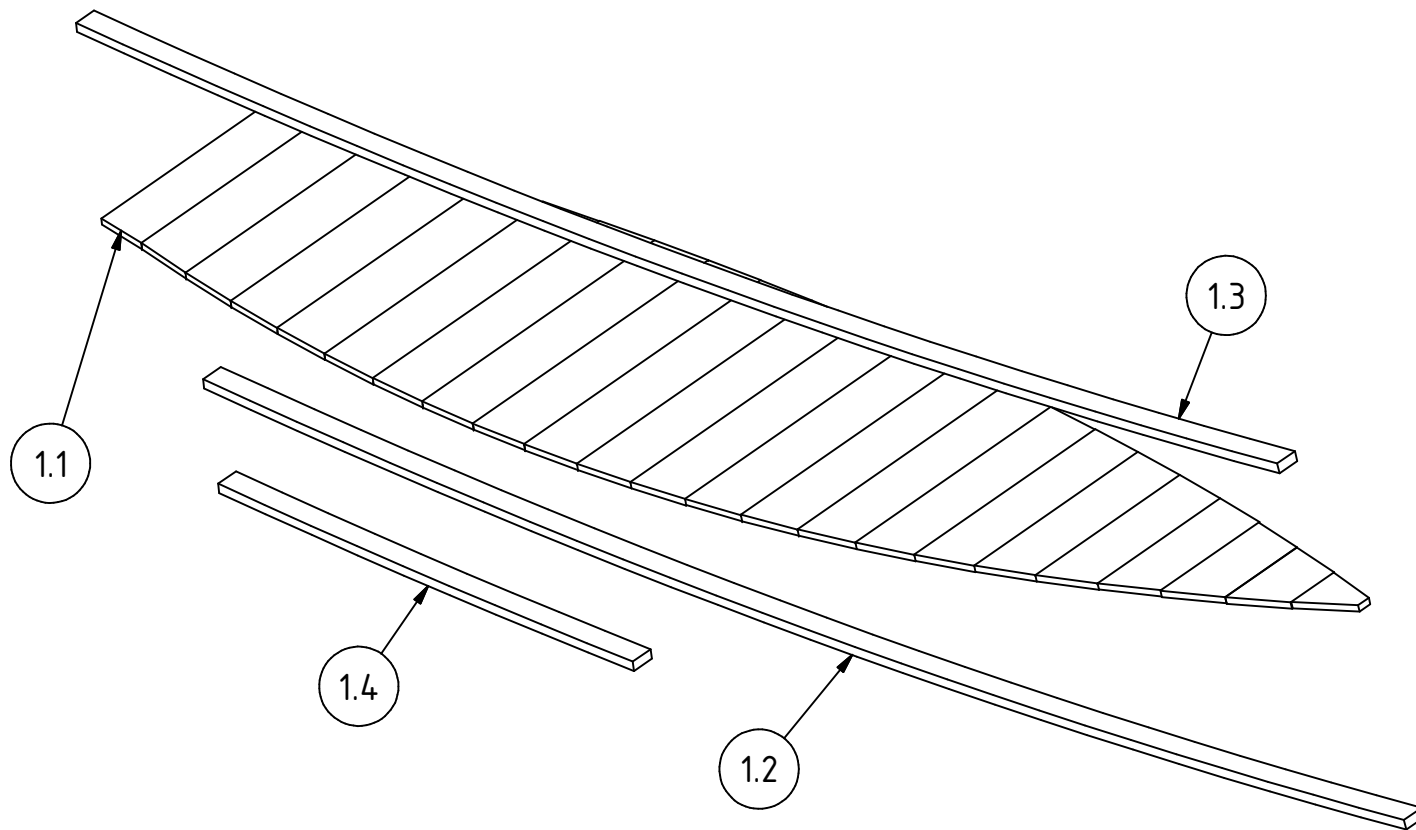
POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	-	3d views	fao_fbb_4.90m-flat-bottom-boat.iam	-	-	1
A2	-	Exploded 3d view	fao_fbb_4.90m-flat-bottom-boat.ipn	-	-	2
B1	-	Parts list	fao_fbb_4.90m-flat-bottom-boat.csv	-	-	3
C1	-	Technical notes	-	-	-	4
1.0	-	Bottom planking	Bottom planking.ipn	-	-	5
1.1	23	Bottom planking 1-23	Bottom planking 1-23.ipt	Production	Hardwood 20mm, variable length	6
1.2	1	Keel	Keel.ipt	Production	Hardwood 30mm	7
1.3	1	Keelson	Keelson.ipt	Production	Hardwood 20mm	8
1.4	1	Skeg	Skeg.ipt	Production	Hardwood 30mm	9
1.5	100	Nail A	-	Buy	Galvanized nails 3x60mm	-
2.0	-	Structuration	Structuration.ipn	-	-	10
2.1	2	Side planking A	Side planking A	Production	Hardwood 30mm	11
2.2	2	Side planking B	Side planking B	Production	Hardwood 20mm	12
2.3	2	Side planking C	Side planking C	Production	Hardwood 30mm	13
2.4	1	Back planking A	Back planking A	Production	Hardwood 30mm	14
2.5	1	Back planking B	Back planking B	Production	Hardwood 20mm	15
2.6	1	Back planking C	Back planking C	Production	Hardwood 30mm	16
2.7	12	Side stiffeners	Side stiffeners	Production	Hardwood 95x20x400mm	-
2.8	1	Stem	Stem	Production	Hardwood 45mm	17
2.9	4	Thwart frame A	Thwart frame A	Production	Hardwood 30mm	18
2.10	1	Thwart frame B	Thwart frame B	Production	Hardwood 30mm	19
2.11	1	Thwart frame C	Thwart frame C	Production	Hardwood 30mm	20
2.12	1	Thwart frame B-1	Thwart frame B-1	Production	Hardwood 30mm	21
2.13	1	Thwart frame C-1	Thwart frame C-1	Production	Hardwood 30mm	22
2.14	1	Knes A	Knes A	Production	Hardwood 30x95x1130mm	-
2.15	1	Knes B	Knes B	Production	Hardwood 30x95x790mm	-
2.16	1	Seat	Seat	Production	Hardwood 20mm	23
2.17	2	Knes C	Kanes C	Production	Hardwood 20mm	24
2.18	1	Steering position	Steering position	Production	Hardwood 20mm	25
2.19	100	Nail B	Nail	Buy	Galvanized nails 3x60mm	-

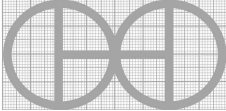
PROJECT		CREATED BY		APPROVED BY		DATE		VERSION	
Flat Bottom Boat		J. Zeron		A. Morillo		02/08/2021		1.0	
PART NAME		FILE NAME						POS	
Parts list		fao_fbb_4.90m-flat-bottom-boat.csv						B1	
DEVELOPED BY		REDESIGNED BY		DOC. TYPE		MATERIAL		QUANTITY	
FAO		 OHO e.V.		Parts list					
				LICENCE		SCALE		SHEET	
				CC-BY-SA 4.0				3 /25	

TECHNICAL NOTES

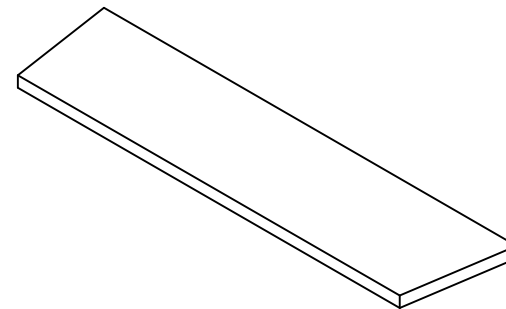
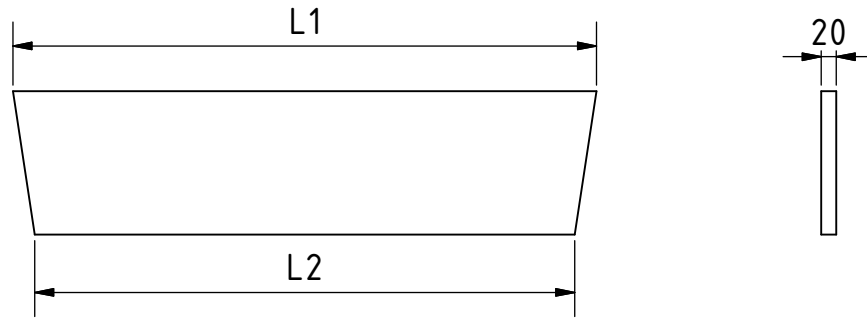
NOTES	CONTENT
GENERAL NOTES	
Wood treatment	<ul style="list-style-type: none"> - The wood must be treated with pesticides and kiln-dried to ensure adequate humidity. - Wood sealer should be applied for later use. - Apply wood preservative on all surfaces. - Painting the outside of the bottom with bitumastic paint is the best and cheapest way. - All joints should be treated with an asphalt-based or bitumastic compound during the construction. It may be necessary to caulk eventual bad leaks with caulking compound afterwards.

PROJECT Flat Bottom Boat	CREATED BY J. Zeron	APPROVED BY A. Morillo	DATE 02/08/2021	VERSION 1.0
PART NAME Technical notes	FILE NAME			POS C1
DEVELOPED BY FAO	REDESIGNED BY  OHO e.V.	DOC. TYPE Technical notes	MATERIAL	QUANTITY
		LICENCE CC-BY-SA 4.0	SCALE	SHEET 4 /25

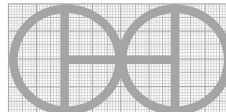


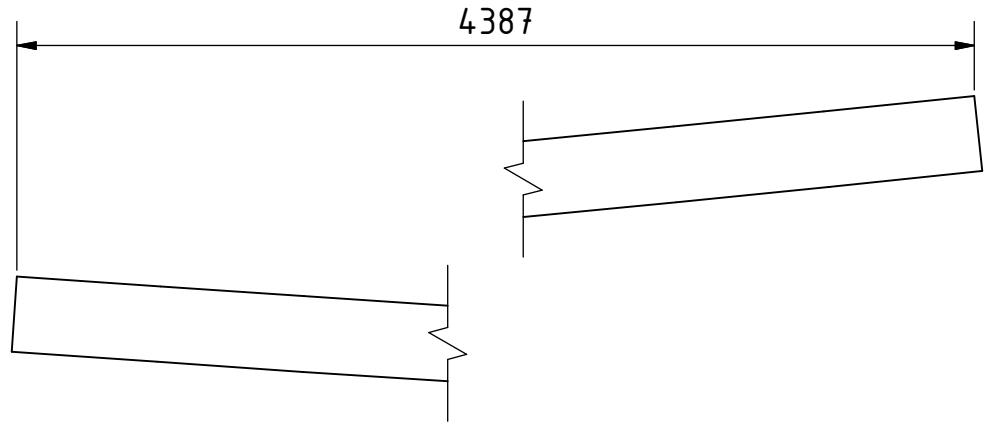
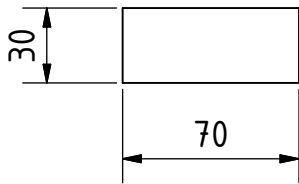
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Bottom planking	Bottom planking.ipn			1.0
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Assembly		
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:20	5 /25

Plank sizes			
Item	Amount	L1	L2
1	1	608	648
2	1	648	714
3	1	714	771
4	1	771	820
5	1	820	859
6	1	859	889
7	1	889	911
8	1	911	924
9	1	924	928
10	1	928	923
11	1	923	909
12	1	909	887
13	1	887	856
14	1	856	816
15	1	816	767
16	1	767	709
17	1	709	642
18	1	642	566
19	1	566	481
20	1	481	386
21	1	386	281
22	1	281	166
23	1	166	42

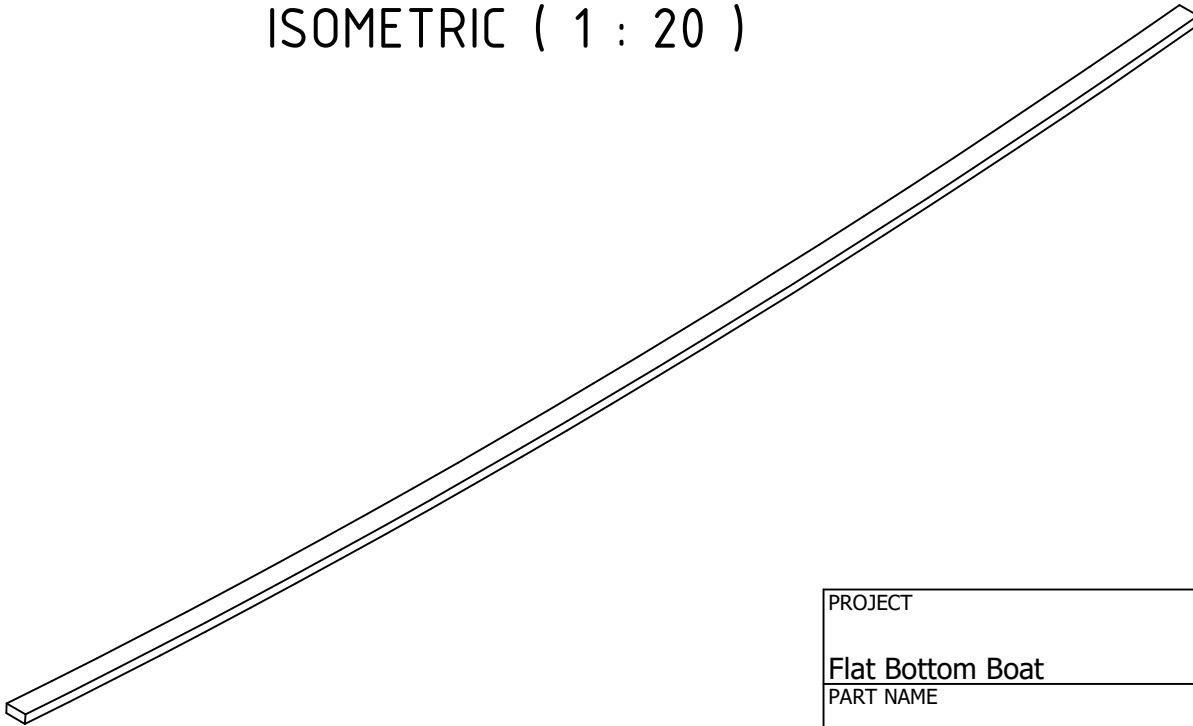


Note: All units in mm.

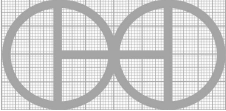
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Bottom planking 1-20	Bottom planking.ipt			1.1
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	40
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:6	6 /25

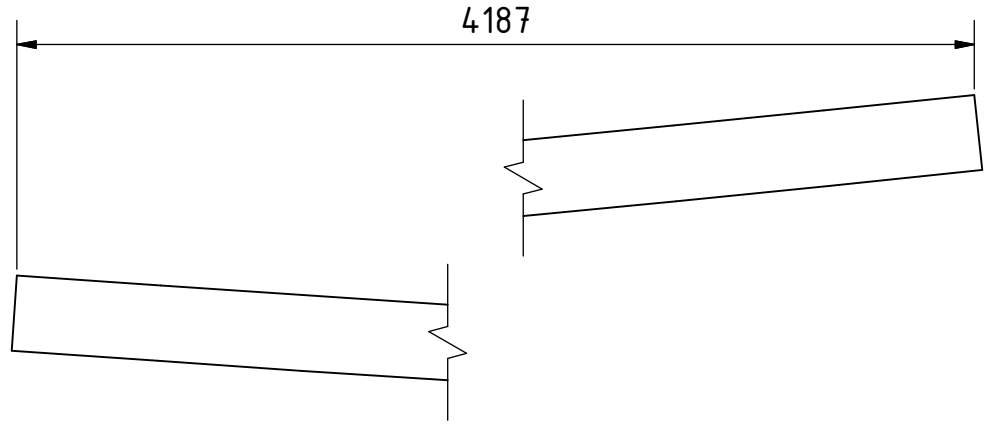
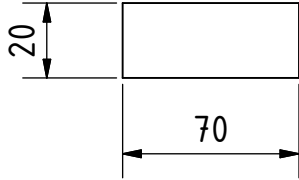


ISOMETRIC (1 : 20)

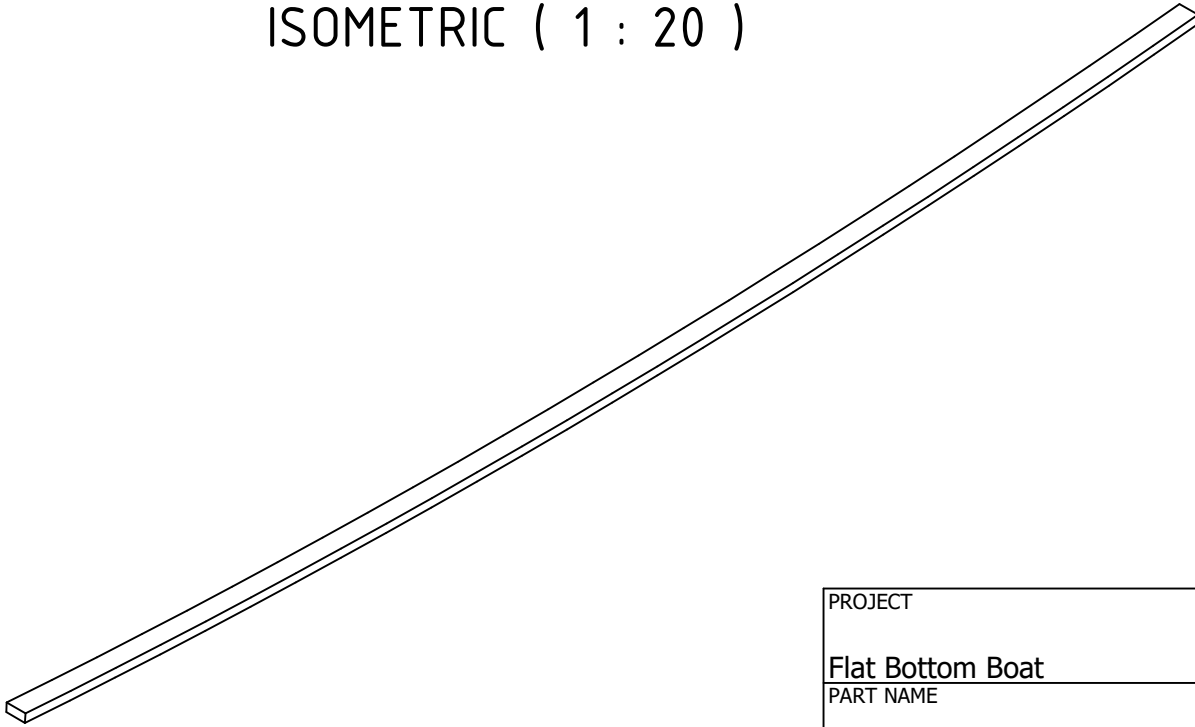


Note: All units in mm.

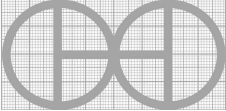
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Keel	Keel.ipt			1.2
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:3	7 /25

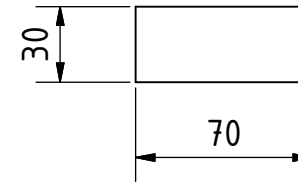
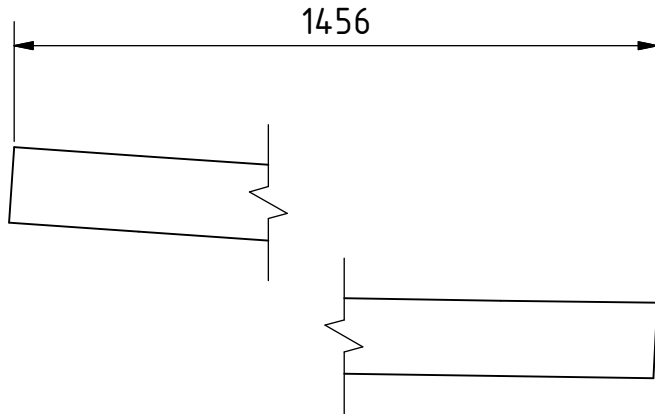


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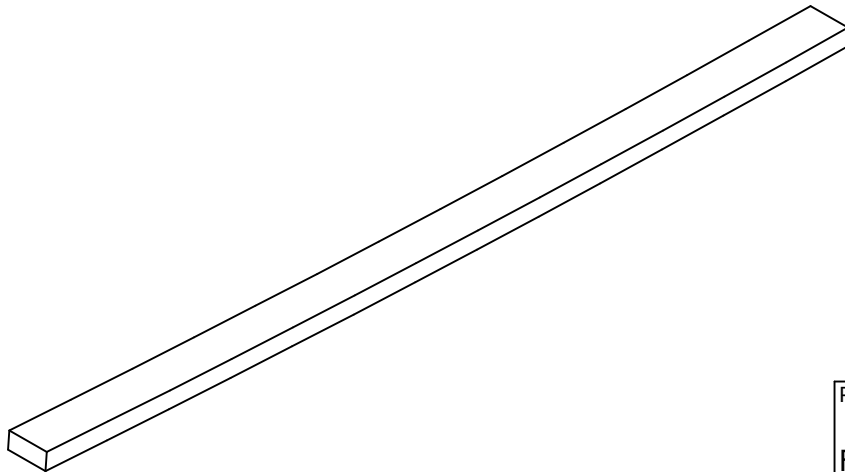


Note: All units in mm.

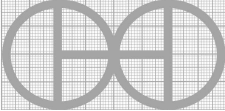
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Keelson	Keelson.ipt			1.3
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:3	8 /25

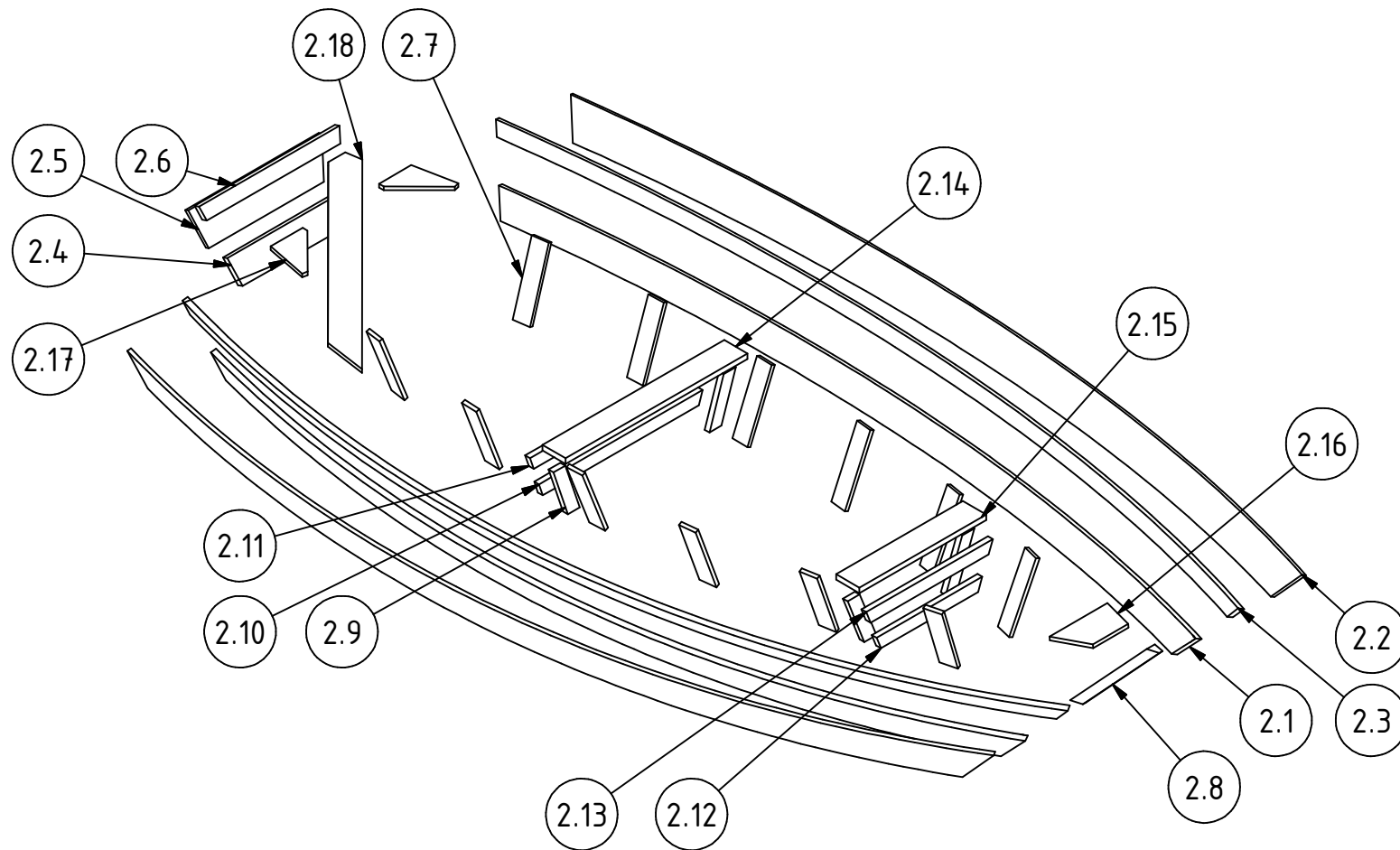


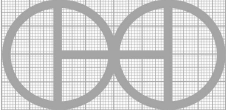
ISOMETRIC (1 : 10)



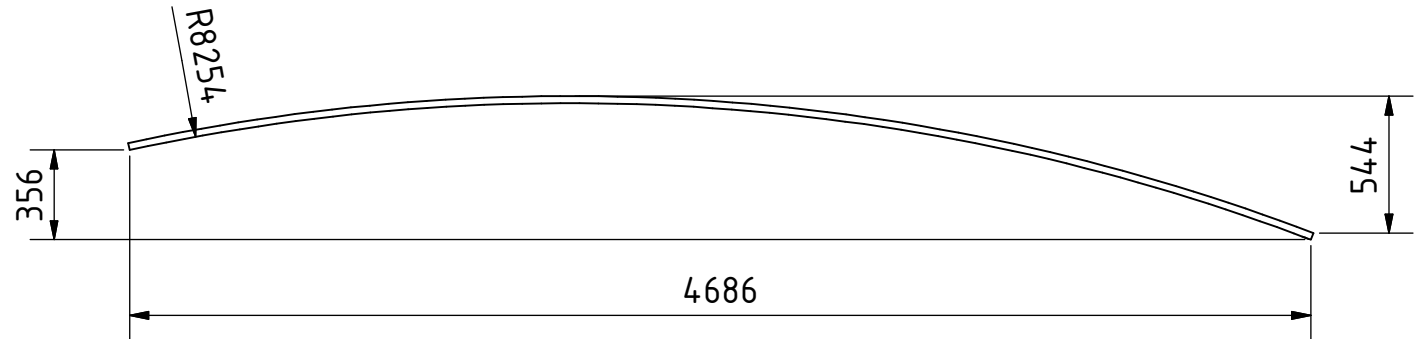
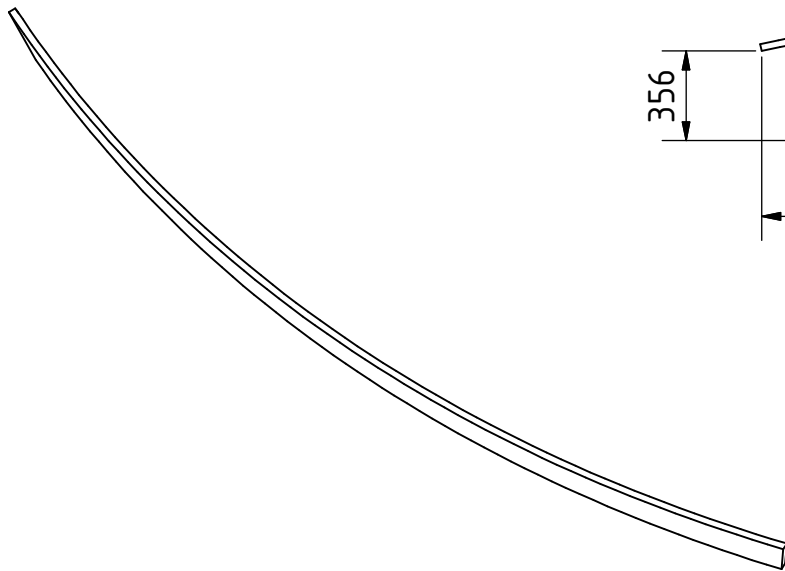
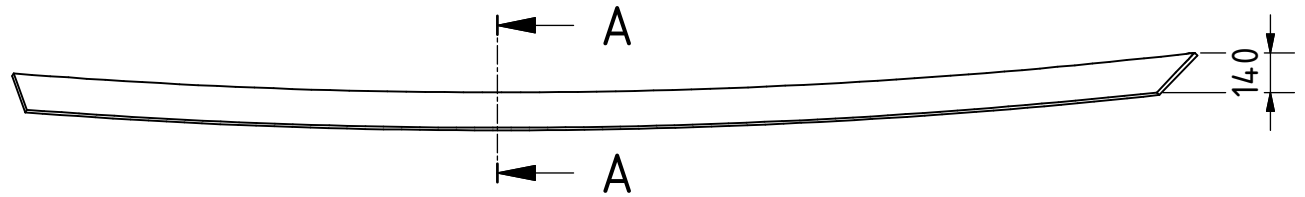
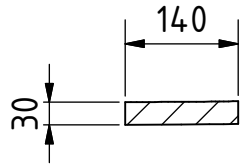
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Skeg	Skeg.ipt			1.4
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:3	9 /25

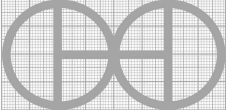


PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Structuration	Structuration.ipn			2.0
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Assembly		
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:30	10 /25

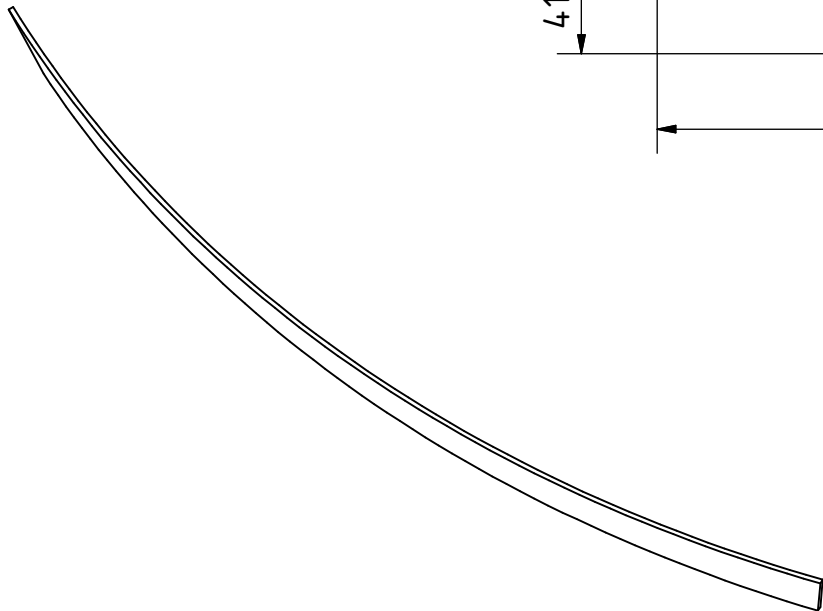
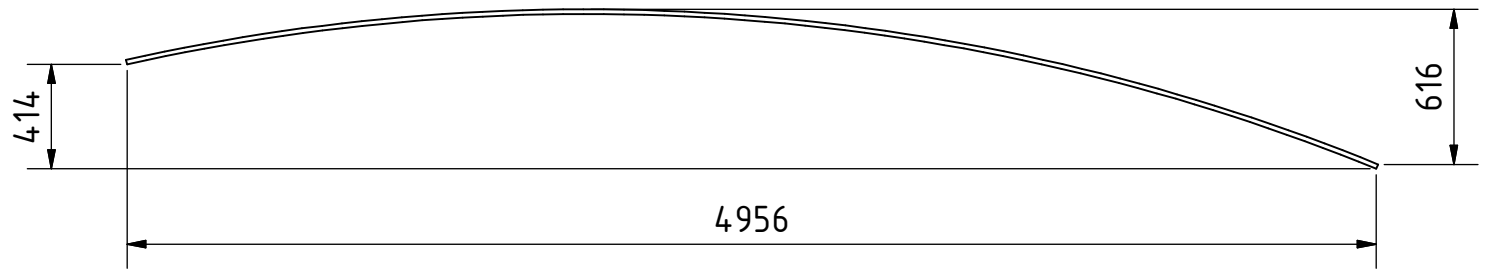
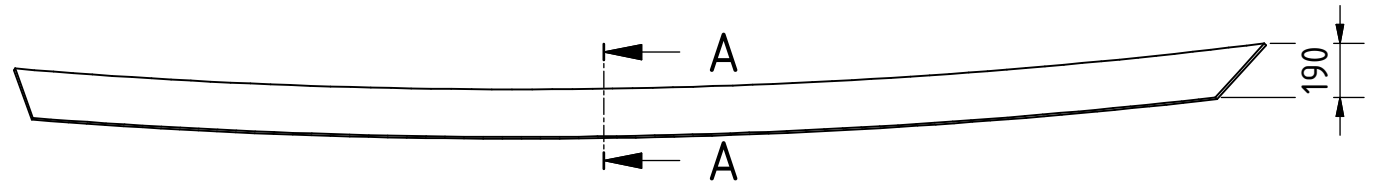
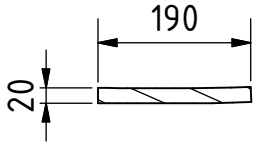
A-A (1 : 10)



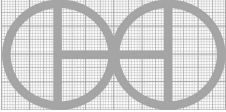
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Side planking A	Side planking A.ipt			2.1
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	2
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:30	11 /25

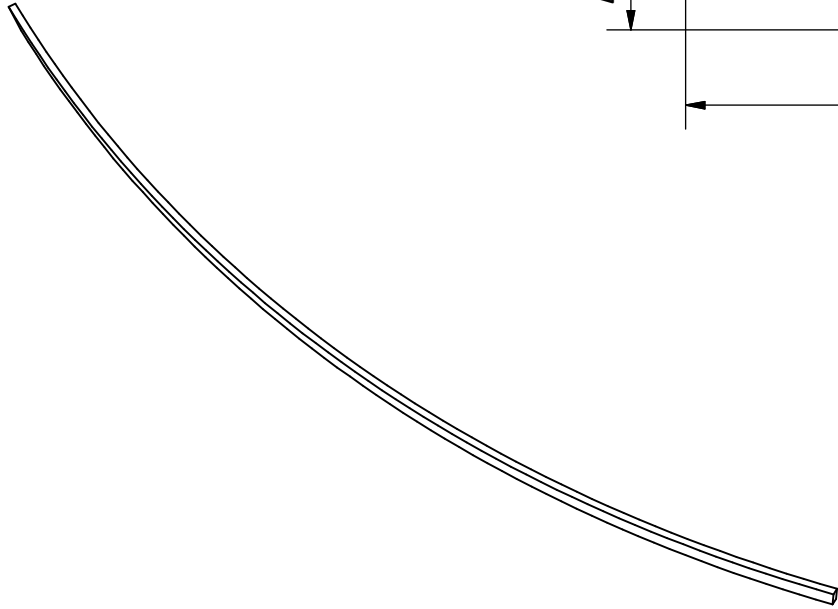
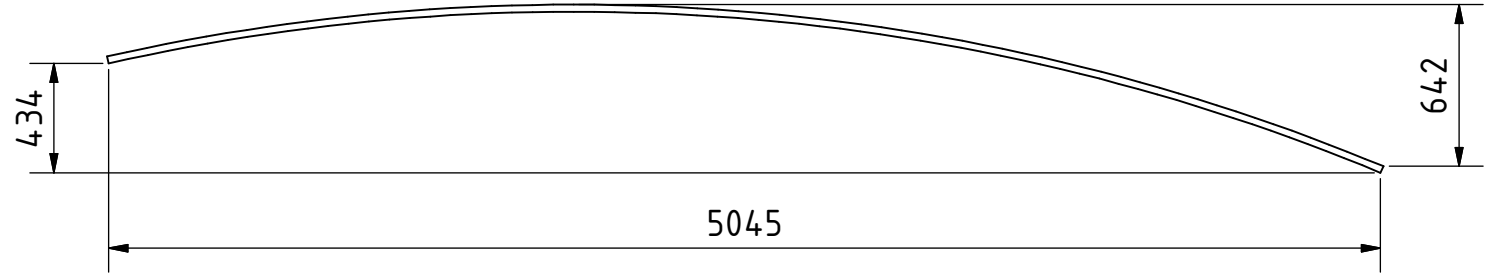
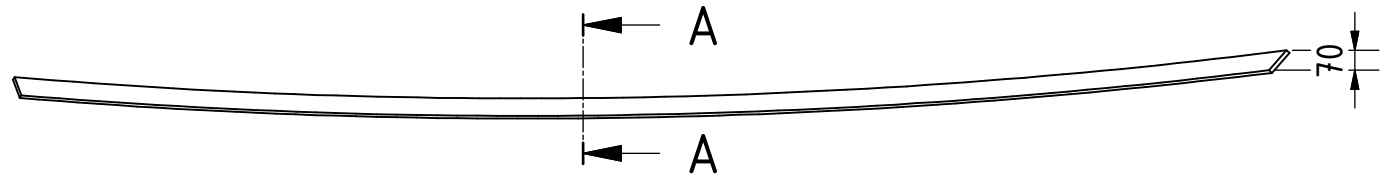
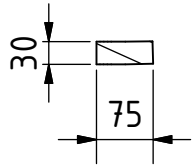
A-A (1 : 10)



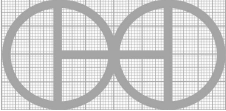
Note: All units in mm.

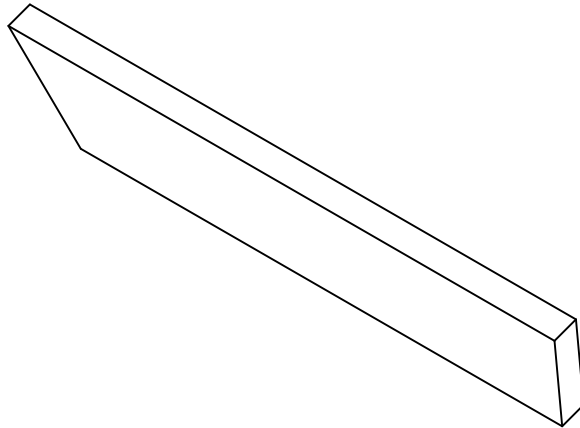
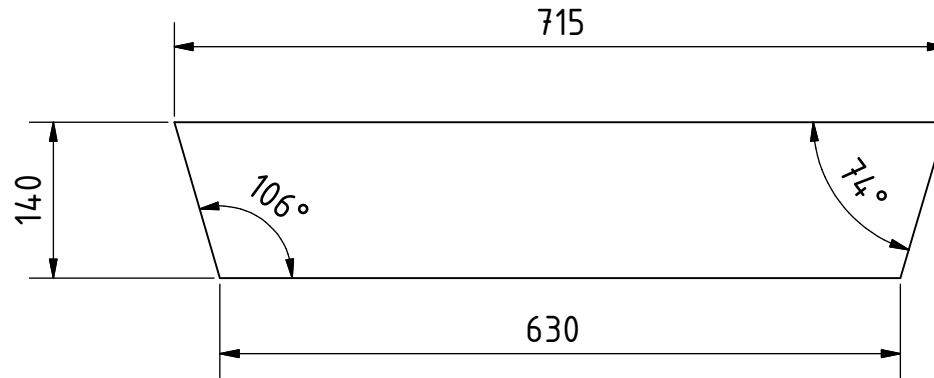
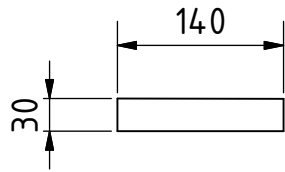
PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Side planking B	Side planking B.ipt			2.2
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	2
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:30	12 /25

A-A (1 : 10)

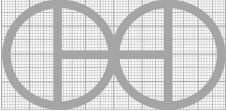


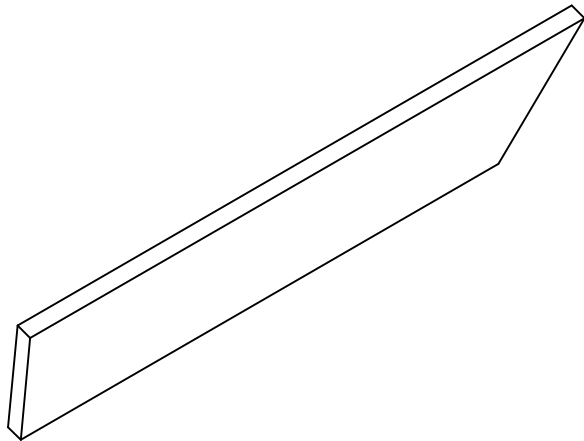
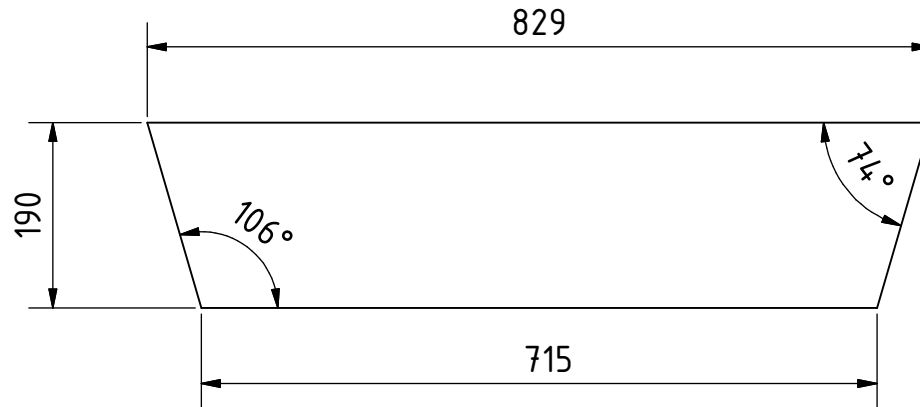
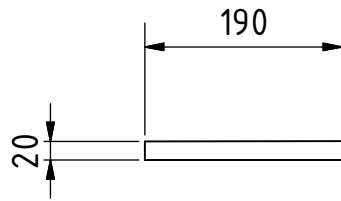
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Side planking C	Side planking C.ipt			2.3
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	2
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:30	13 /25

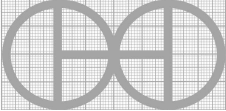


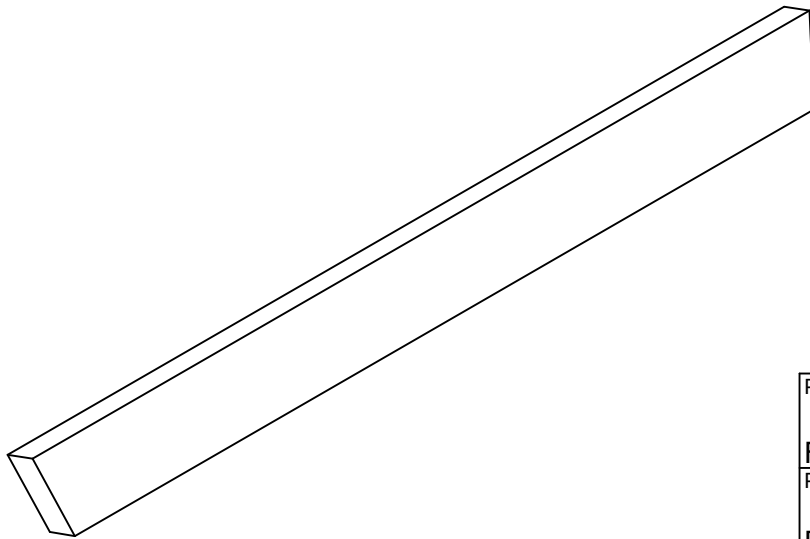
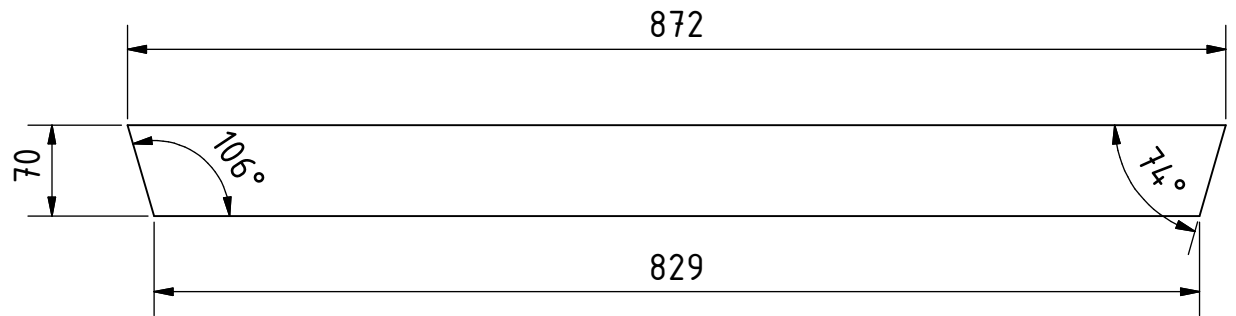
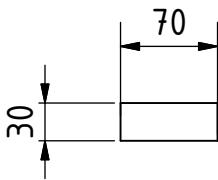
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Back planking A	Back planking A.ipt			2.4
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:7	14 /25

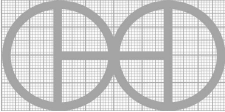


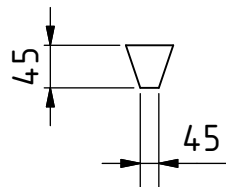
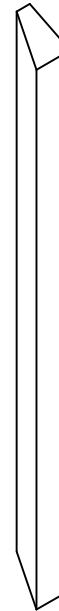
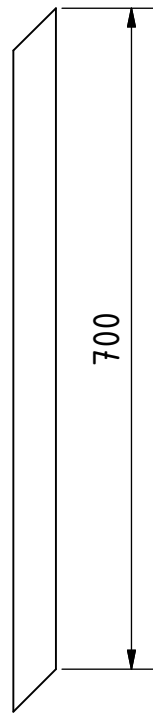
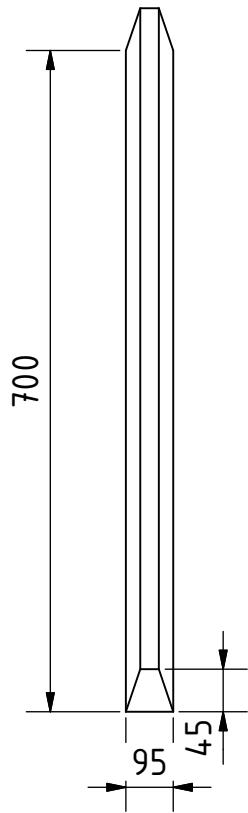
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Back planking B	Back planking B.ipt			2.5
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:10	15 /25

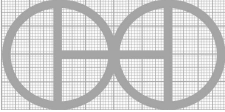


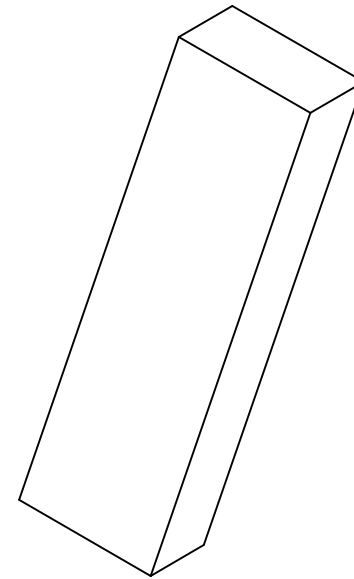
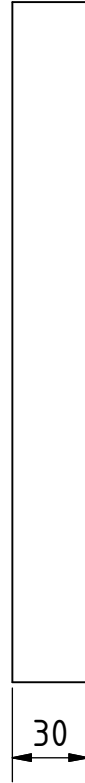
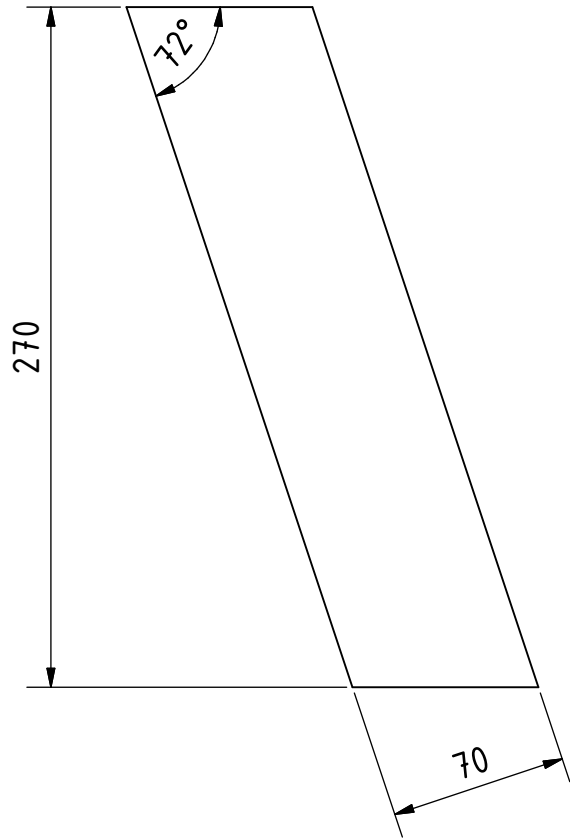
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Back planking C	Back planking C.ipt			2.6
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:6	16 /25

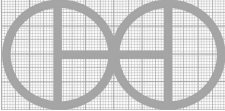


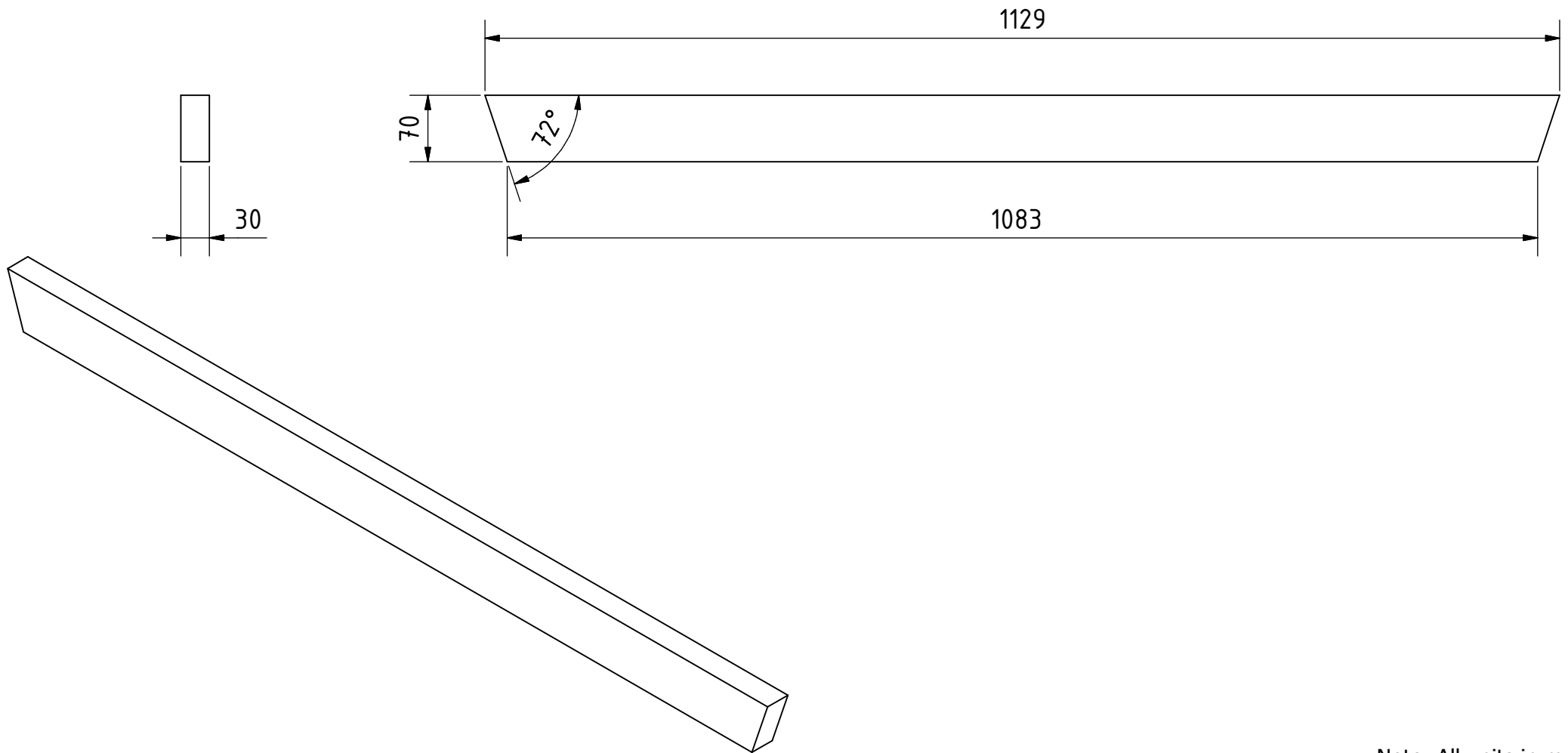
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Stem	Stem.ipt			2.8
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:8	17 /25

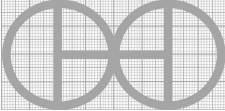


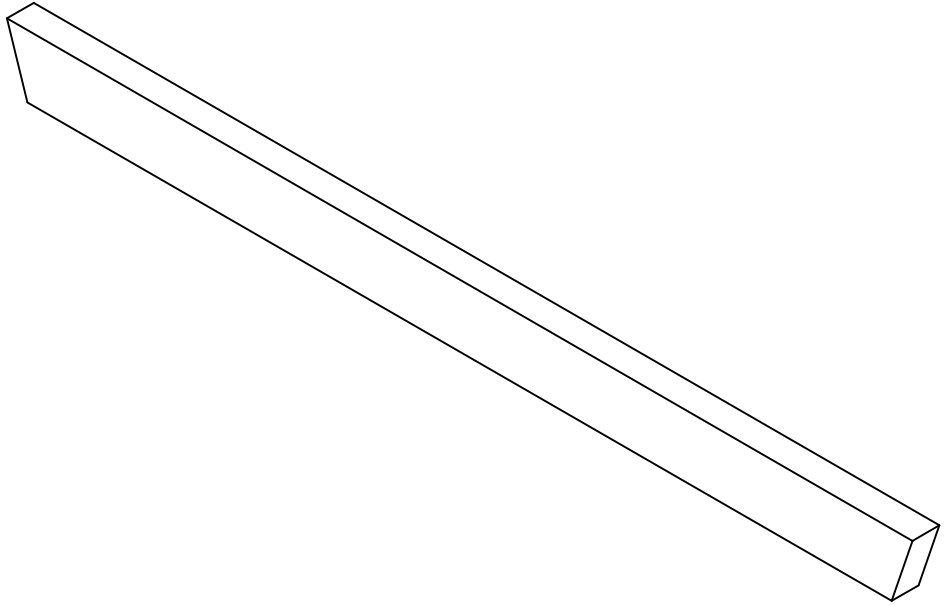
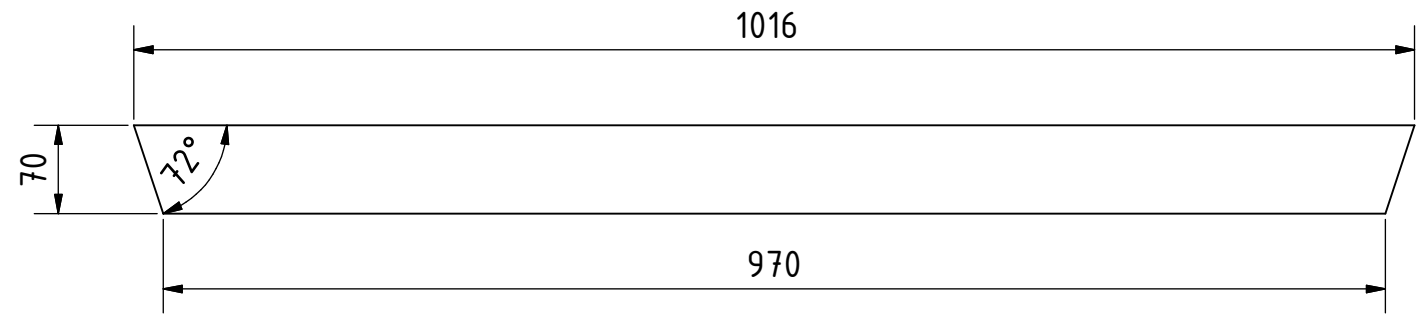
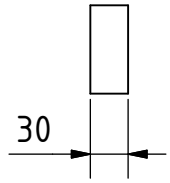
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Thwart frame A	Thwart frame A.ipt			2.9
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	4
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:3	18 /25

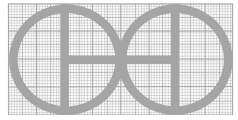


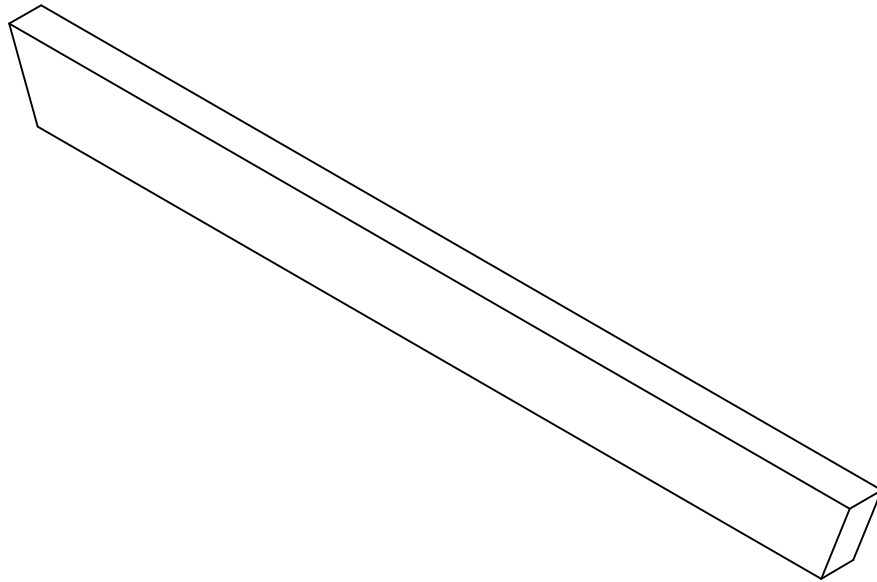
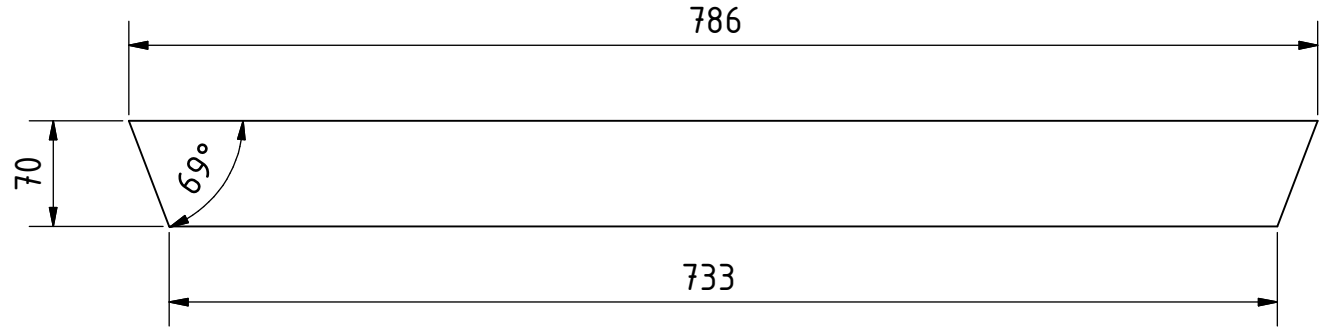
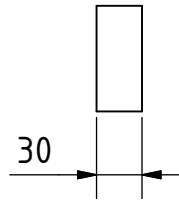
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Thwart frame B	Thwart frame B.ipt			2.10
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:6	19 /25

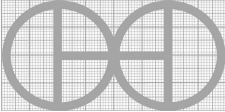


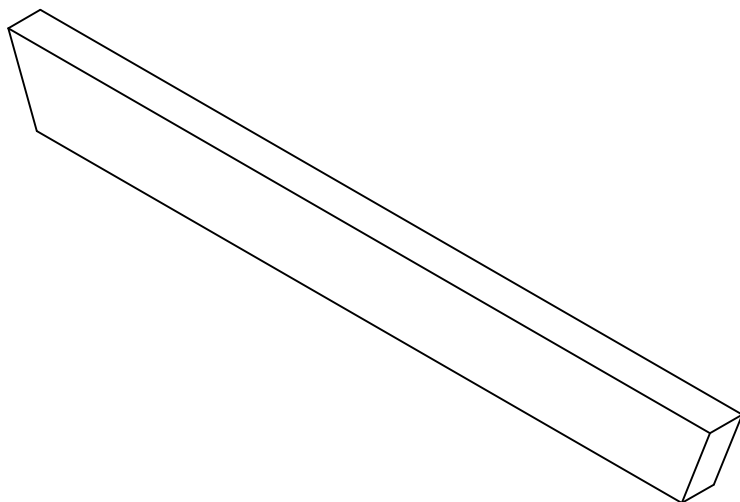
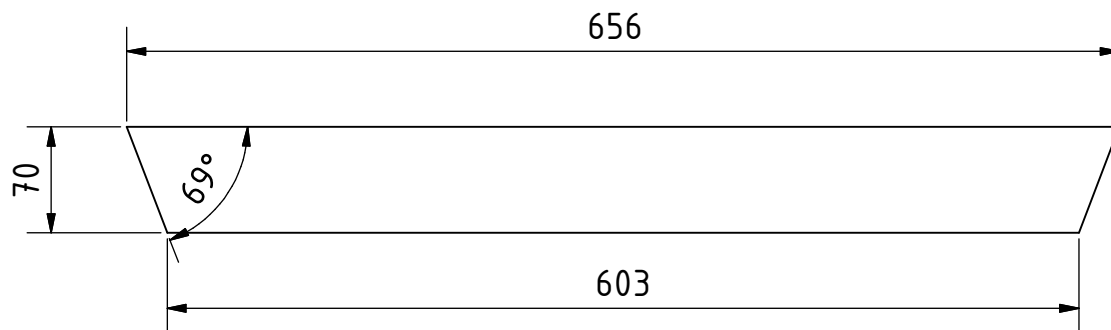
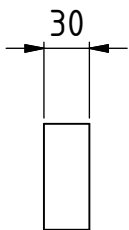
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Thwart frame C	Thwart frame C.ipt			2.11
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:6	20 /25

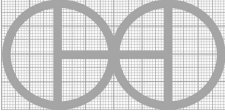


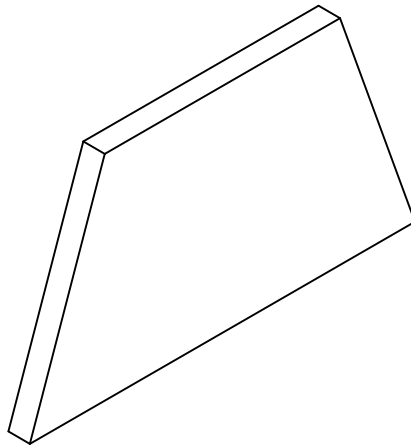
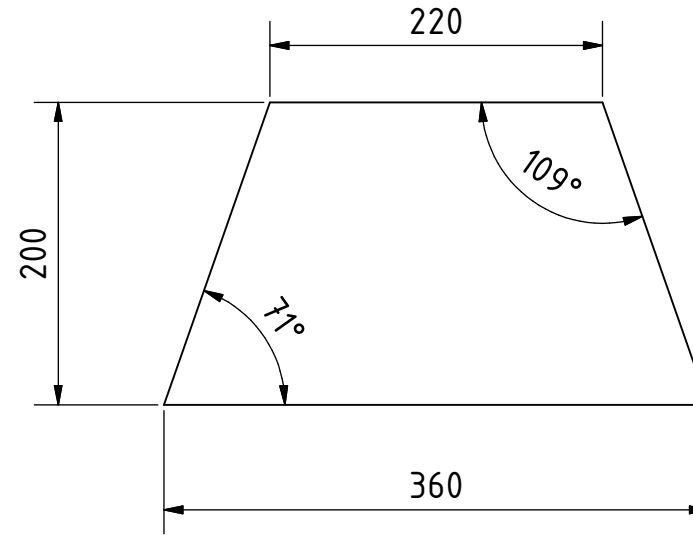
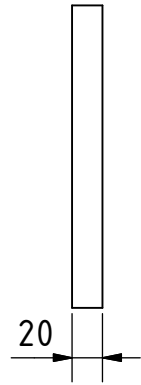
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Thwart frame B-1	Thwart frame B-1.ipt			2.12
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:5	21 /25

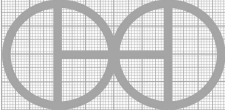


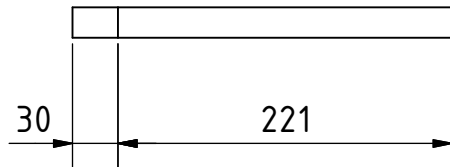
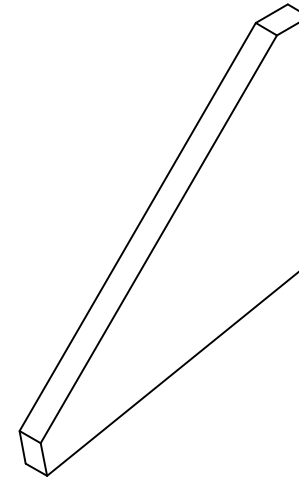
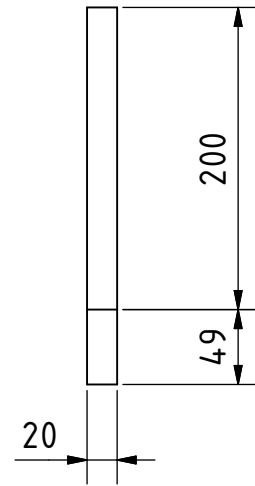
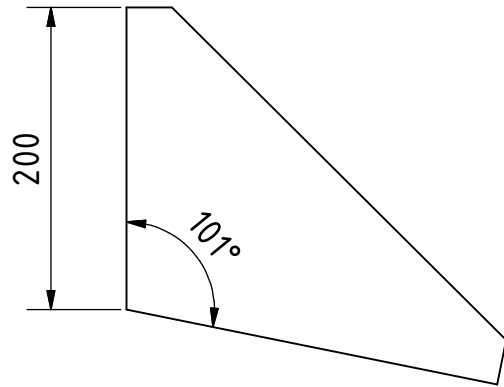
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Thwart frame C-1	Thwart frame C-1.ipt			2.13
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:5	22 /25

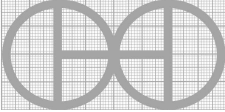


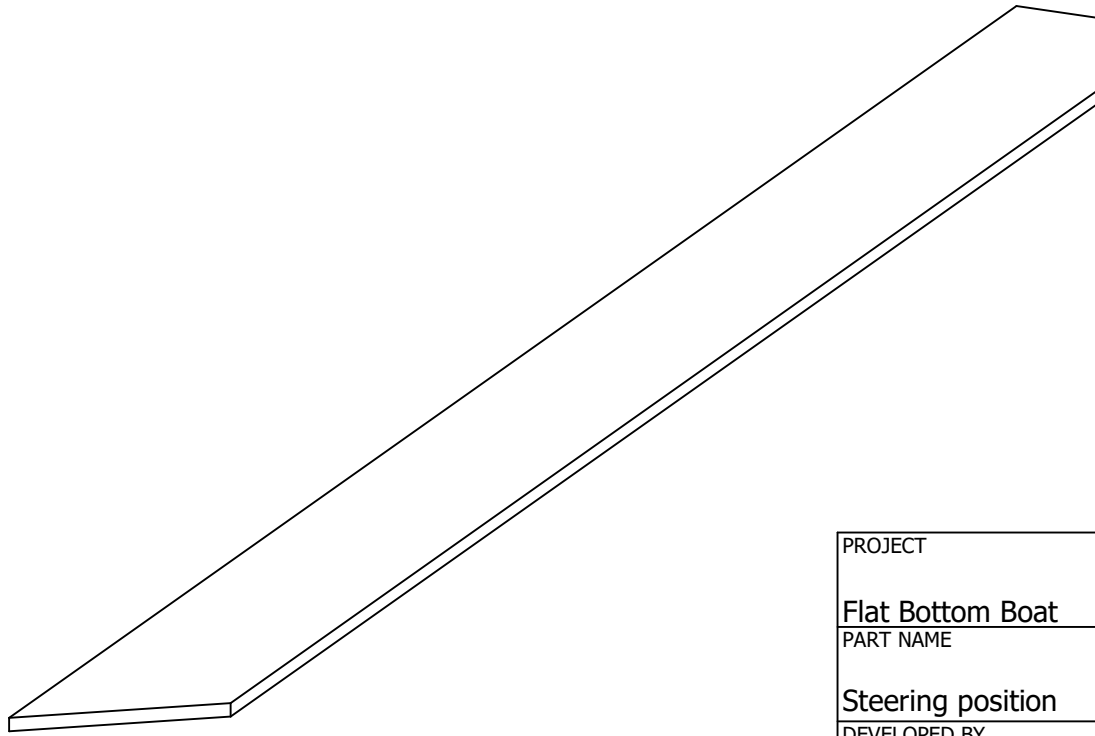
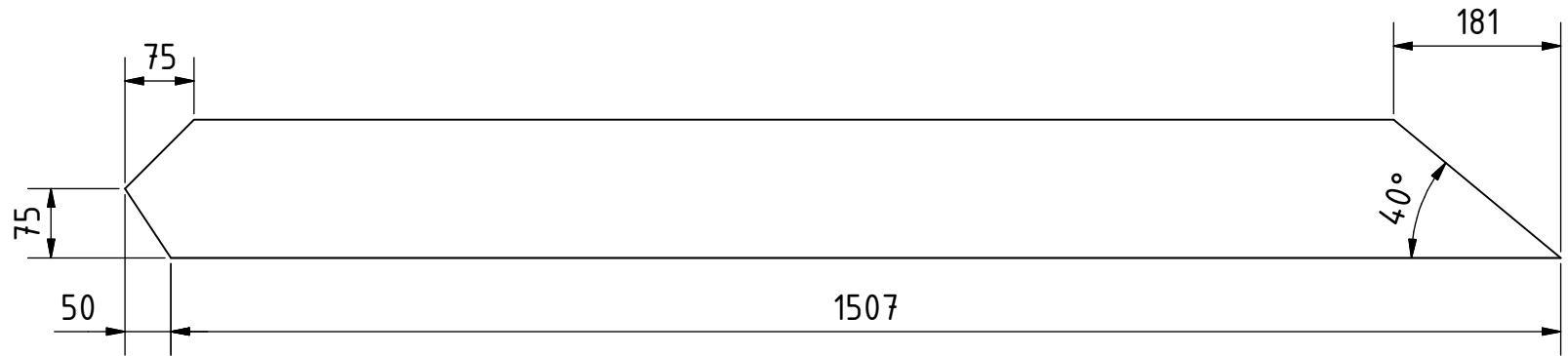
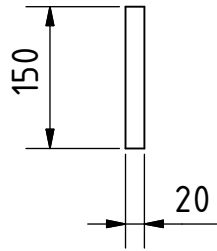
Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Seat	Seat.ipt			2.16
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
		LICENCE	SCALE	SHEET
FAO	OHO e.V.	CC-BY-SA 4.0	1:5	23 /25

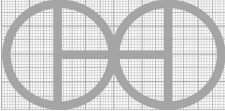


Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Knes C	Knes C.ipt			2.17
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	2
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:5	24 /25



Note: All units in mm.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
Flat Bottom Boat	J. Zeron	A. Morillo	02/08/2021	1.0
PART NAME	FILE NAME			POS
Steering position	Steering position.ipt			2.18
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL	QUANTITY
		Part	Hardwood	1
FAO	OHO e.V.	LICENCE	SCALE	SHEET
		CC-BY-SA 4.0	1:8	25 /25