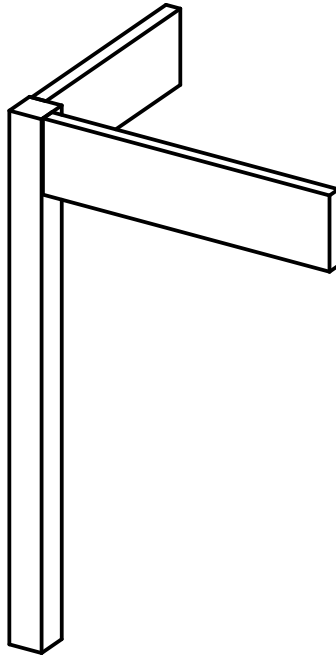


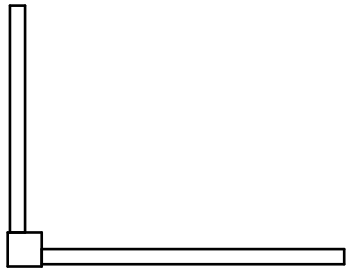
Leg and aprons mitred



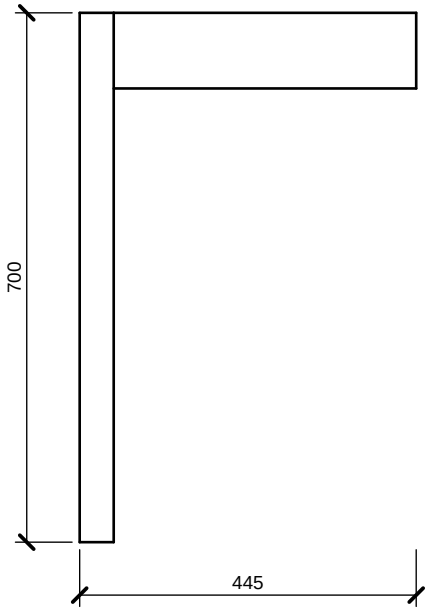
parts	3
overall	445 x 345 x 700 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

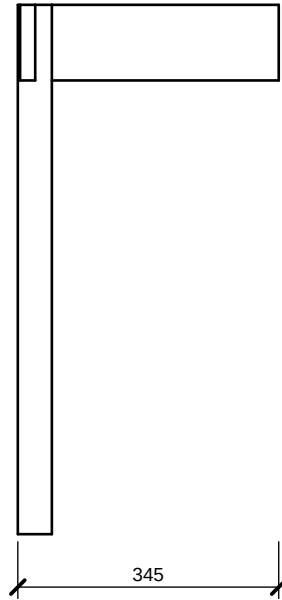
Drawings	3
Assembly	3
Parts	4
1 leg	5
2 front_apron	6
3 side_apron	7
 Cut list	 8
 Appendix: source	 9



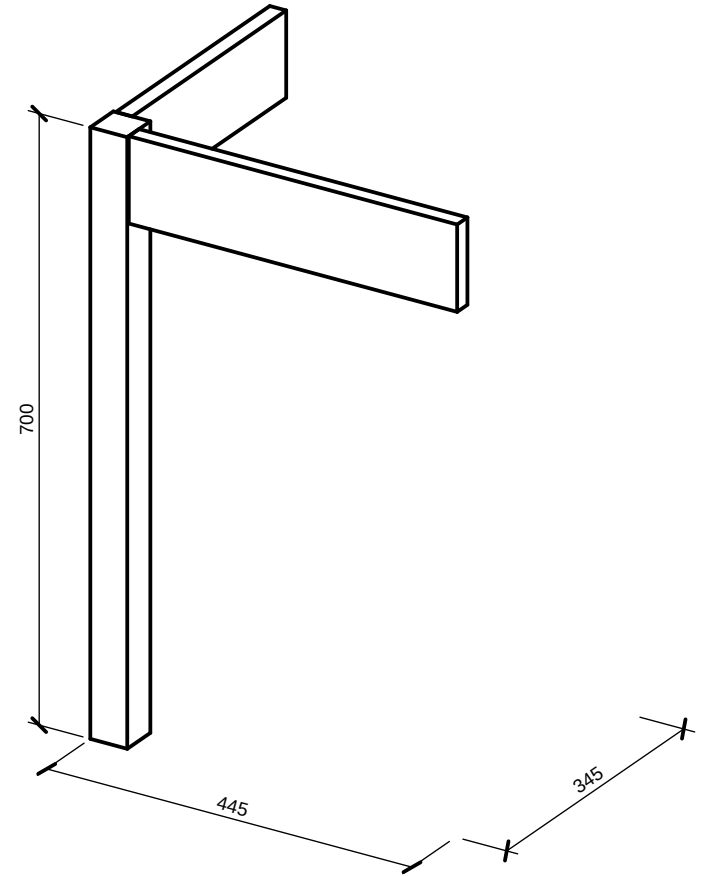
TOP



FRONT

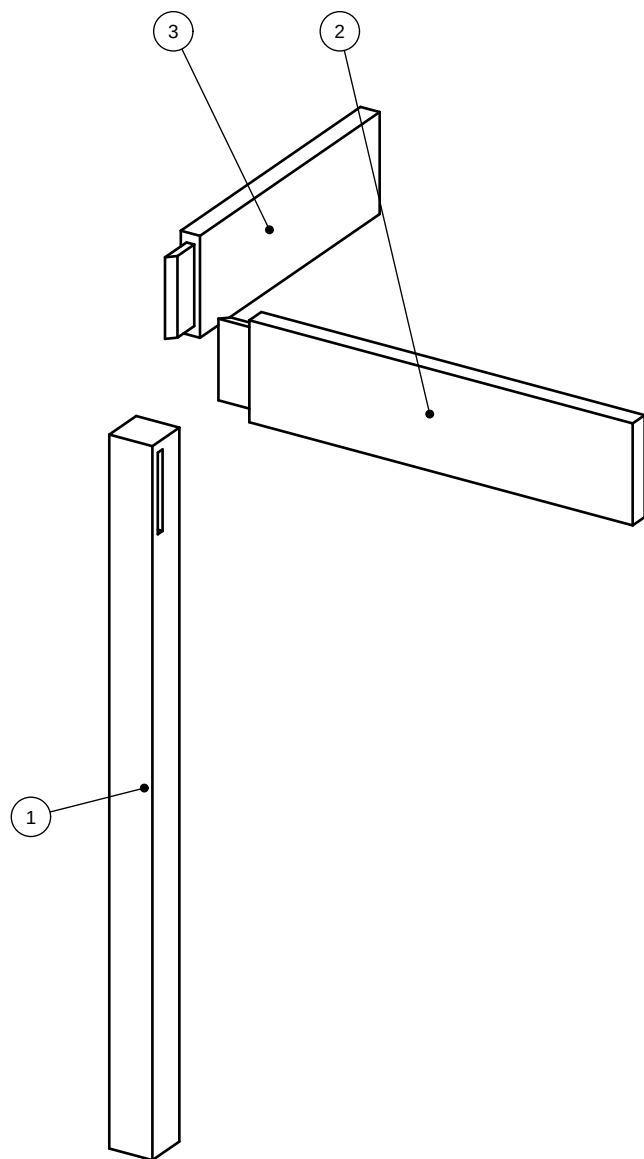


RIGHT SIDE



ISOMETRIC

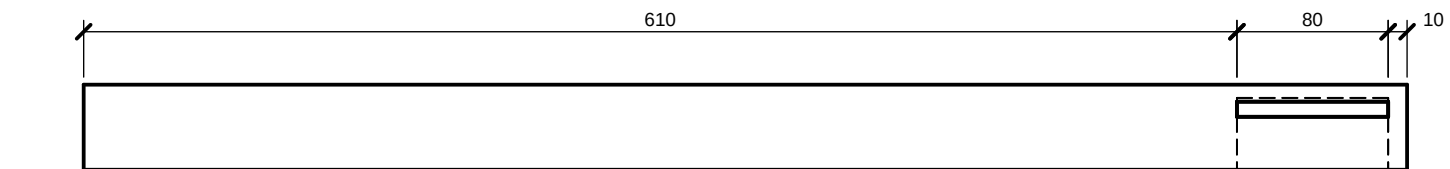
assembly	leg_and_aprons_mitred
parts	3
overall	445 x 345 x 700 (W x D x H)
material	oak
scale	1:10, mm



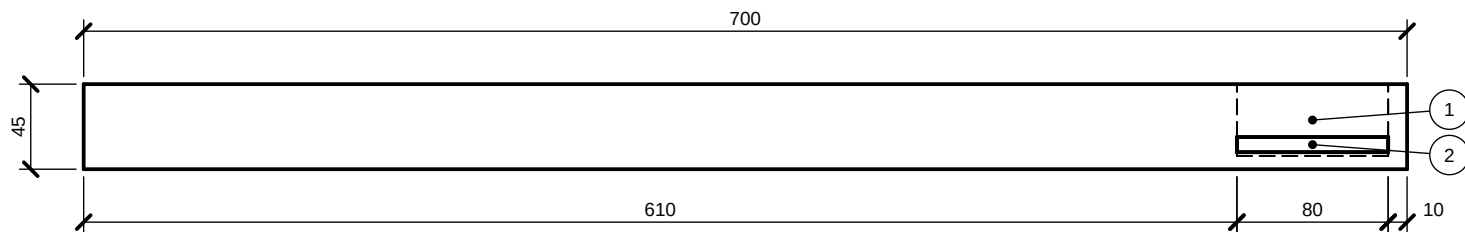
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	leg	1	700 x 45 x 45	oak
2	front_apron	1	436 x 100 x 20	oak
3	side_apron	1	336 x 100 x 20	oak

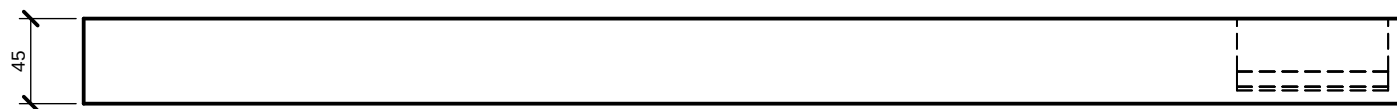
assembly	leg_and_aprons_mitred
parts	3
overall	445 x 345 x 700 (W x D x H)
material	oak
scale	not to scale, mm



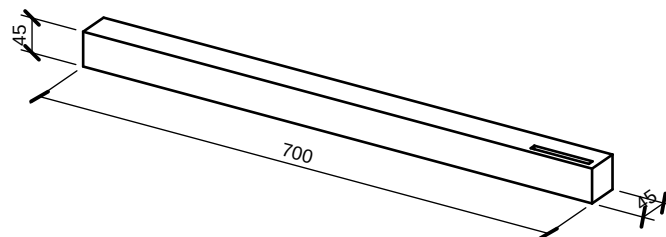
BACK EDGE



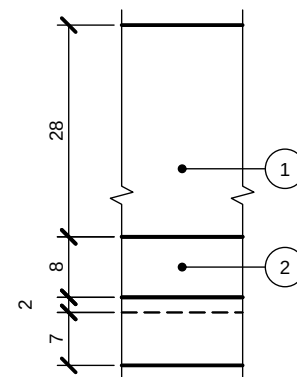
TOP FACE



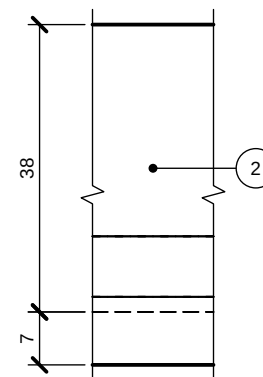
FRONT EDGE



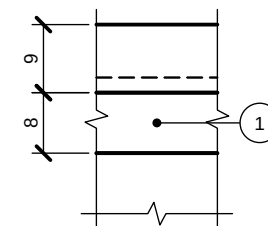
ISOMETRIC



TOP FACE: 1, 2 1:1



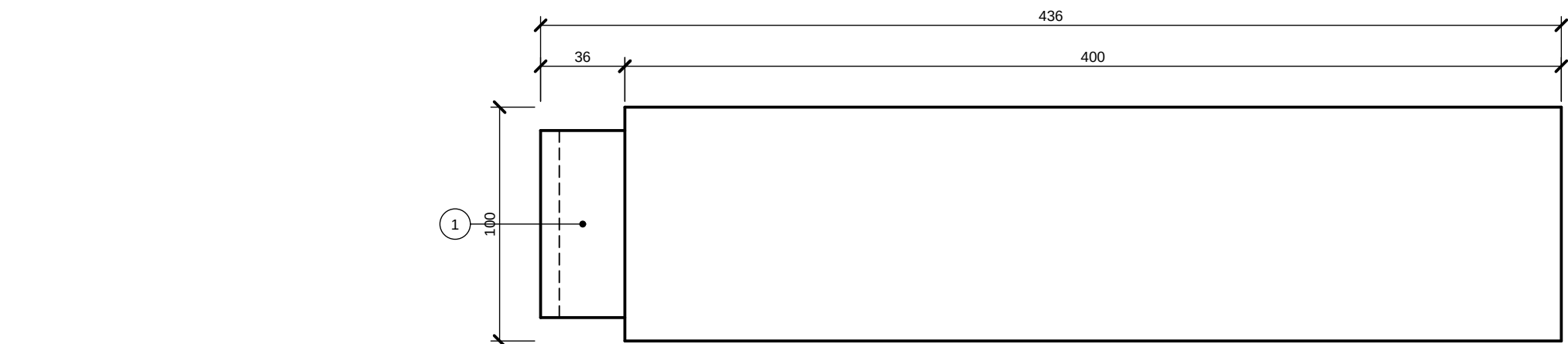
FRONT EDGE: 2 1:1



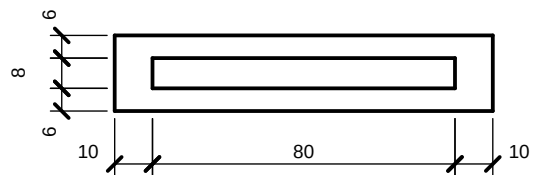
BACK EDGE: 1 1:1

- 1 mortise 80 x 8 mm, 38 deep, in back_edge
2 mortise 80 x 8 mm, 38 deep, in top_face

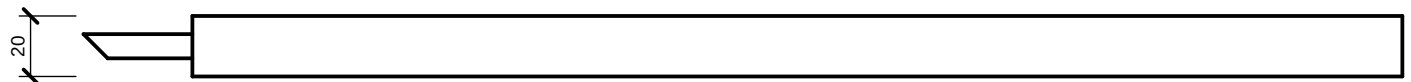
part	leg
of	leg_and_aprons_mitred
make	1
cut size	700 x 45 x 45
material	oak
scale	1:4, mm



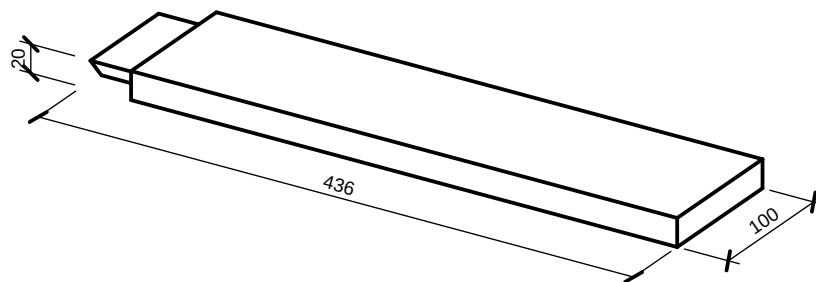
TOP FACE



LEFT END 1:2



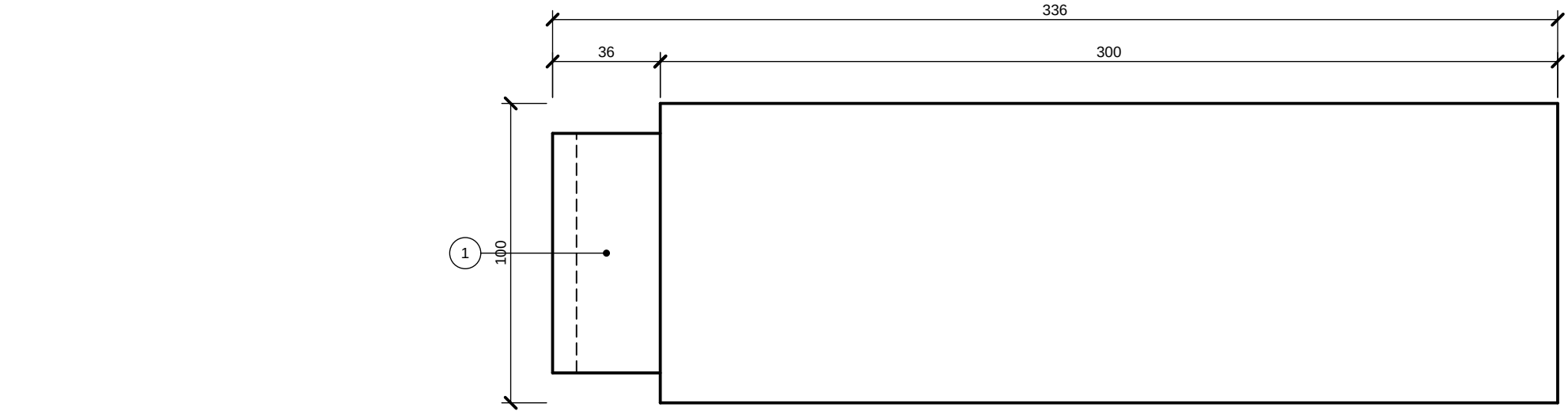
FRONT EDGE



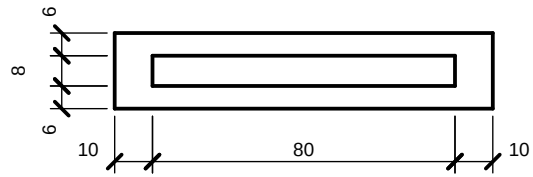
ISOMETRIC

1 tenon 80 x 8 mm, 36 long, end mitred 45 deg towards bottom_face, on left_end

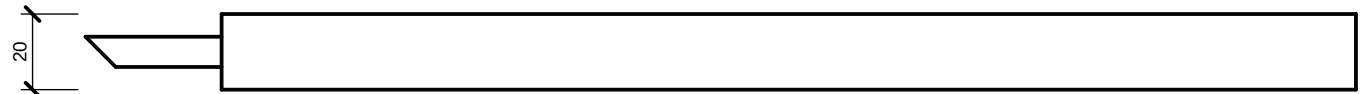
part	front_apron
of	leg_and_aprons_mitred
make	1
cut size	436 x 100 x 20
material	oak
scale	1:2.5, mm



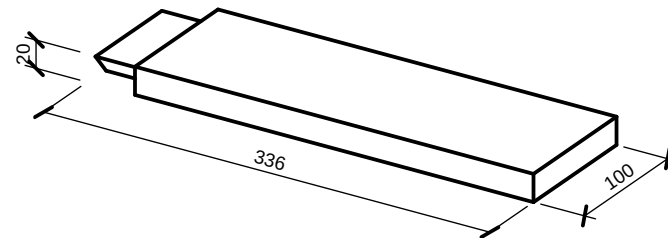
TOP FACE



LEFT END



FRONT EDGE



ISOMETRIC

1 tenon 80 x 8 mm, 36 long, end mitred 45 deg towards bottom_face, on left_end

part	side_apron
of	leg_and_aprons_mitred
make	1
cut size	336 x 100 x 20
material	oak
scale	1:2, mm

Cut list

leg	700 x 45 x 45 mm	oak	
	- mortise 80 x 8 mm, 38 deep,	in back_edge	
	- mortise 80 x 8 mm, 38 deep,	in top_face	
front_apron	436 x 100 x 20 mm	oak	
	- tenon 80 x 8 mm, 36 long,	end mitred 45 deg towards bottom_face,	on left_end
side_apron	336 x 100 x 20 mm	oak	
	- tenon 80 x 8 mm, 36 long,	end mitred 45 deg towards bottom_face,	on left_end

Appendix: source

Made with woodwright 0.9.0, build123d 0.13.0, Python 3.14.4.

To make these plans again:

```
uvx --python 3.14 woodwright==0.9.0 export joints.leg_and_aprons_mitred
```

joints.leg_and_aprons_mitred, in woodwright/examples/joints.py

```
def leg_and_aprons_mitred(setback: float = 3) -> Assembly:
    """A table leg with two aprons, their long tenons mitred to meet inside the leg.

    The tenons are as long as they can be: their long points (on the outer
    cheeks) lie on the diagonal of the leg.
    """
    tenon = rules.tenon_thickness(OAK.thickness)
    outer_cheek = setback + (OAK.thickness - tenon) / 2 # from the outside of the leg
    return _leg_and_aprons(
        "leg_and_aprons_mitred", LEG_STOCK.thickness - outer_cheek, mitred=True, setback=setback
    )
```