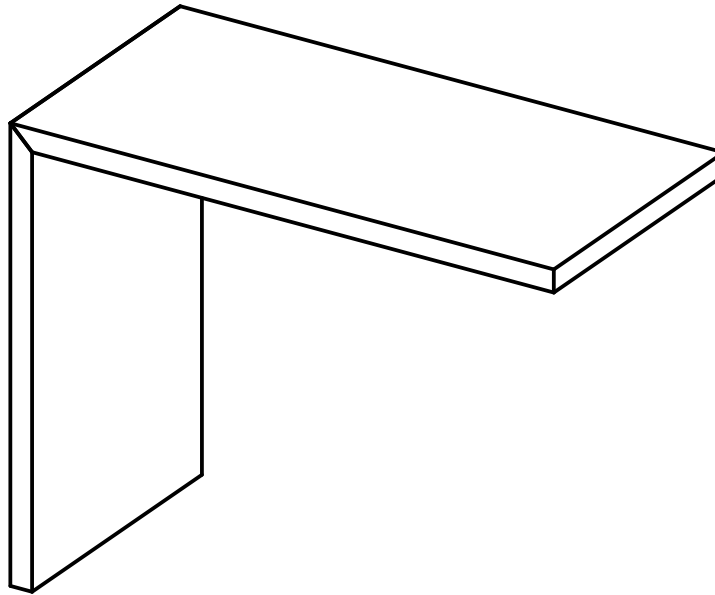


Splined shelf corner



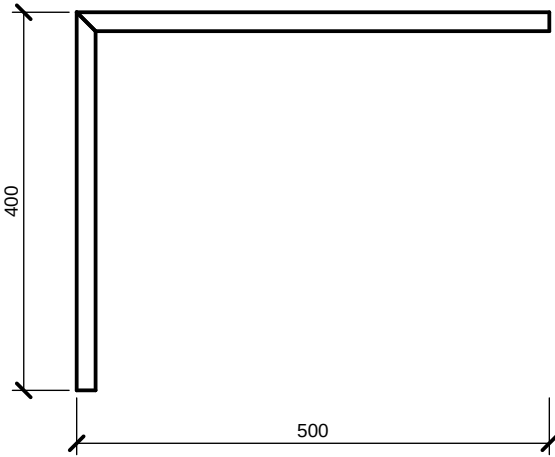
parts	5 (3 different)
overall	500 x 250 x 400 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

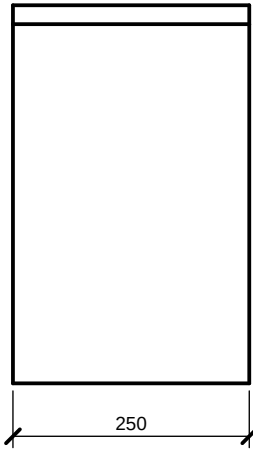
Drawings	3
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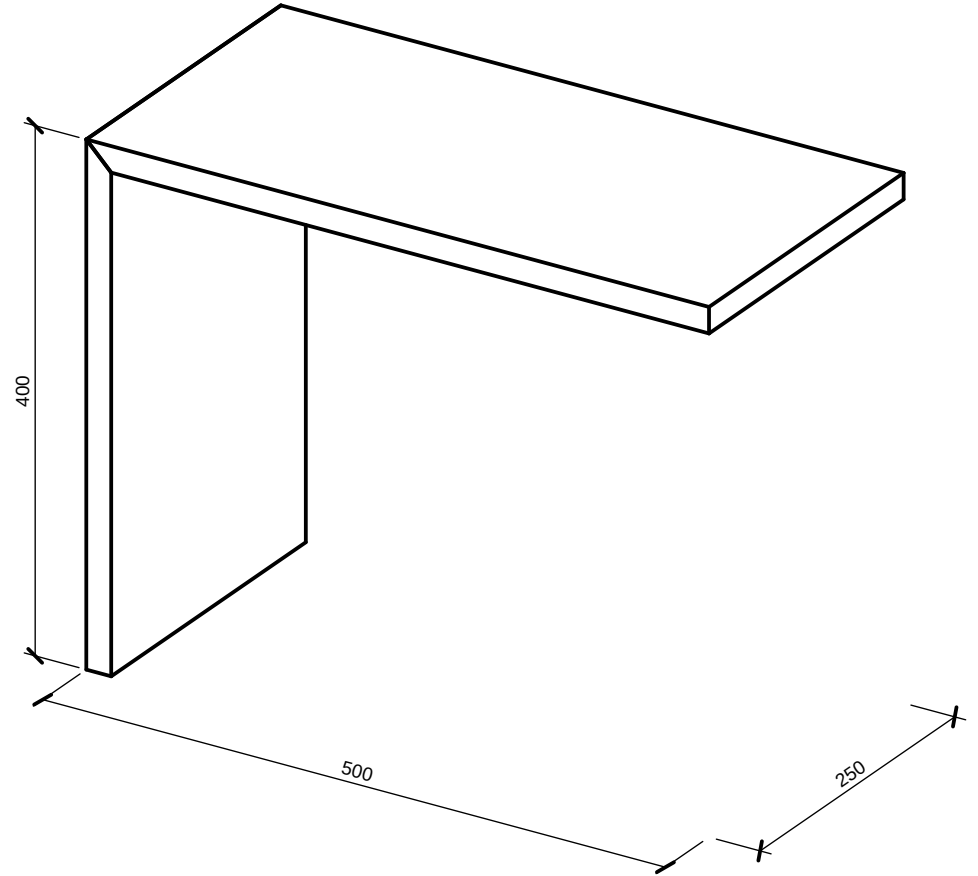
TOP



FRONT

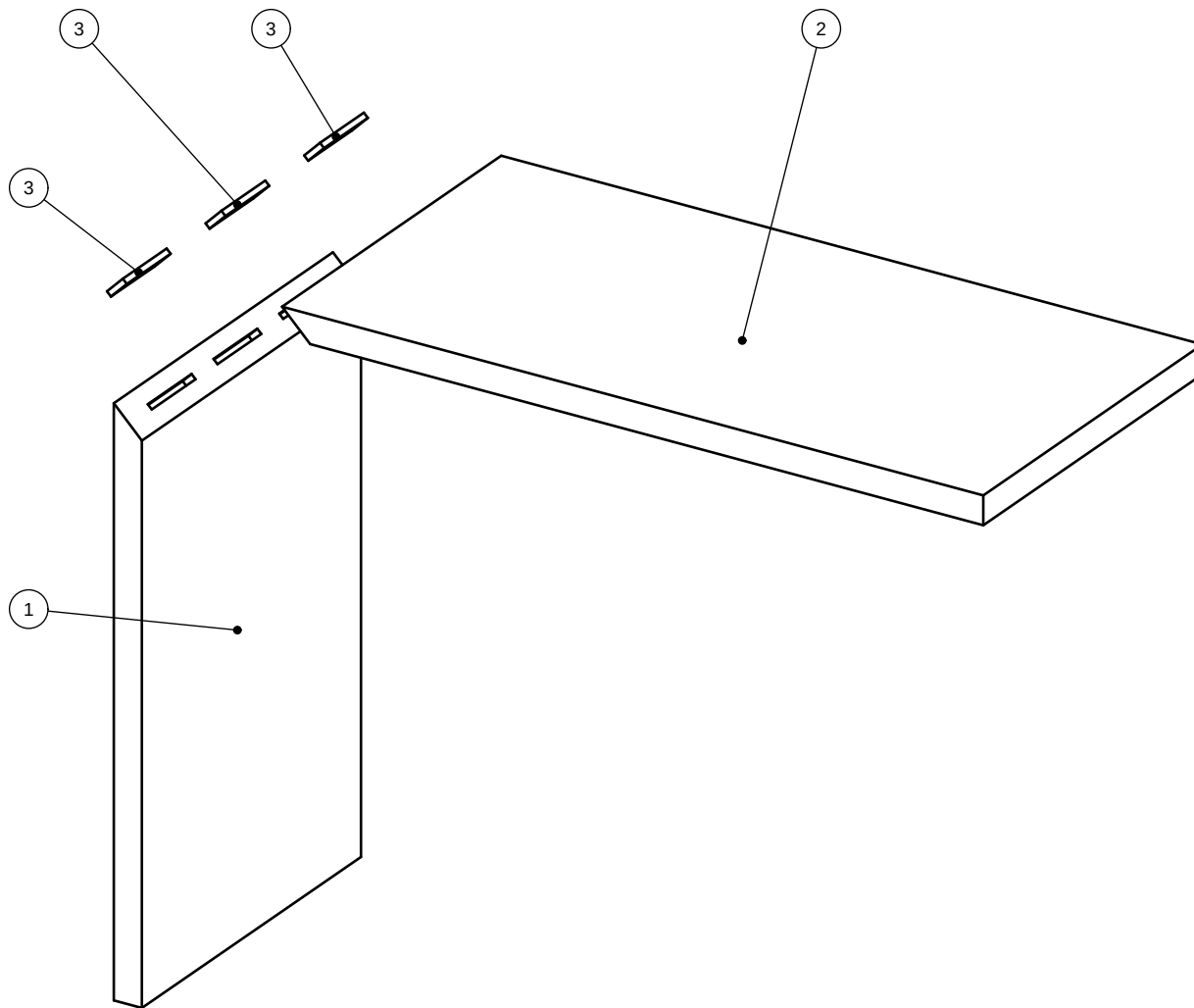


RIGHT SIDE



ISOMETRIC

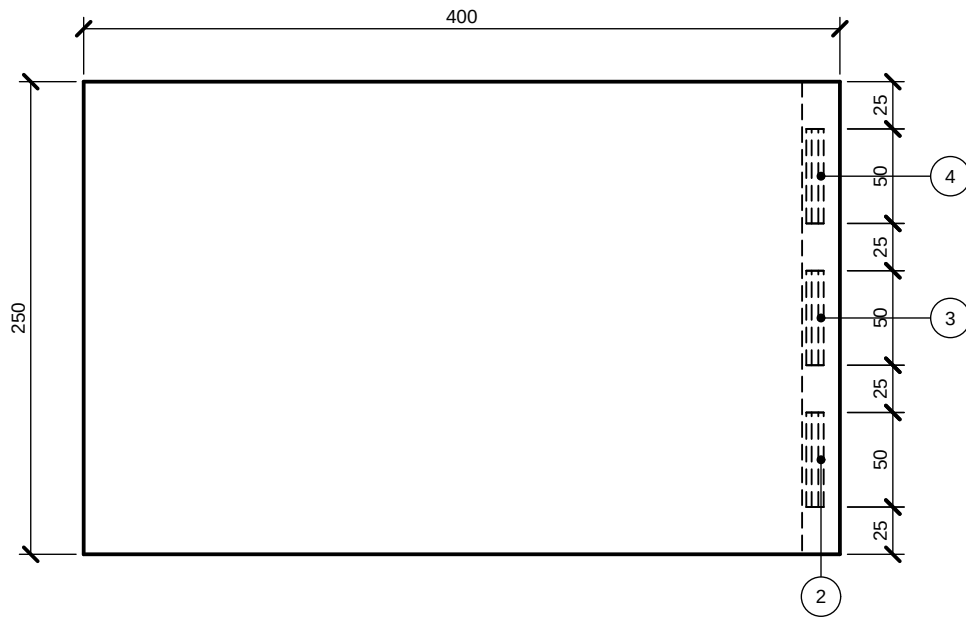
assembly	splined_shelf_corner
parts	5 (3 different)
overall	500 x 250 x 400 (W x D x H)
material	oak
scale	1:8, mm



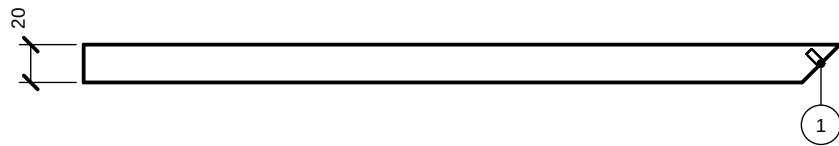
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	side	1	400 x 250 x 20	oak
2	top	1	500 x 250 x 20	oak
3	spline	3	50 x 16 x 4	oak

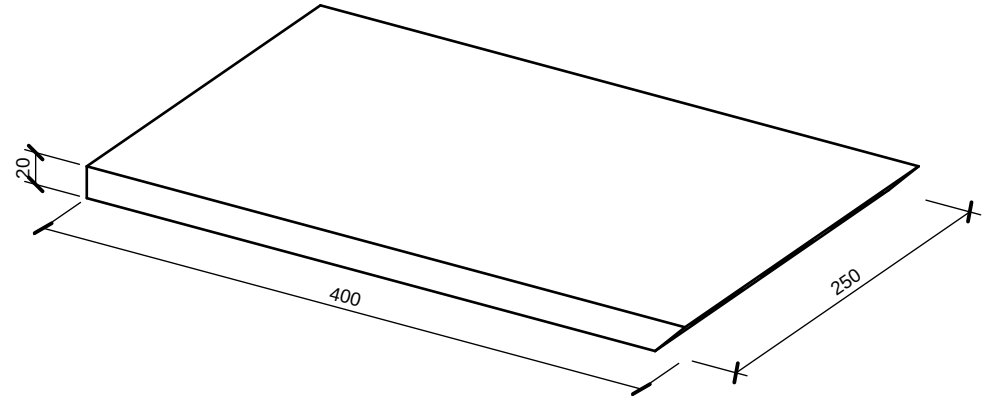
assembly	splined_shelf_corner
parts	5 (3 different)
overall	500 x 250 x 400 (W x D x H)
material	oak
scale	not to scale, mm



TOP FACE



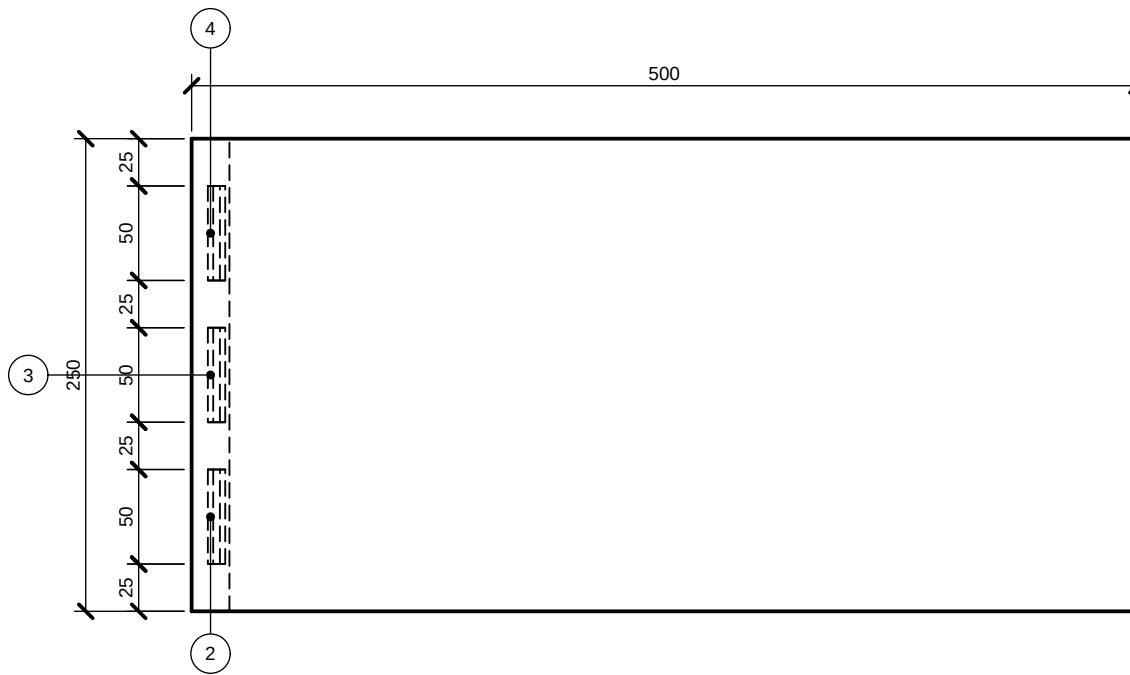
FRONT EDGE



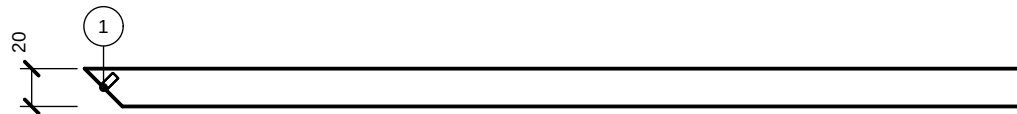
ISOMETRIC

- 1 mitre 45 deg on right_end, bottom_face inside
- 2 spline groove 4 mm, 9 deep, square to the mitre with top, along the corner, stopped, 25 to 75 from front_edge
- 3 spline groove 4 mm, 9 deep, square to the mitre with top, along the corner, stopped, 100 to 150 from front_edge
- 4 spline groove 4 mm, 9 deep, square to the mitre with top, along the corner, stopped, 175 to 225 from front_edge

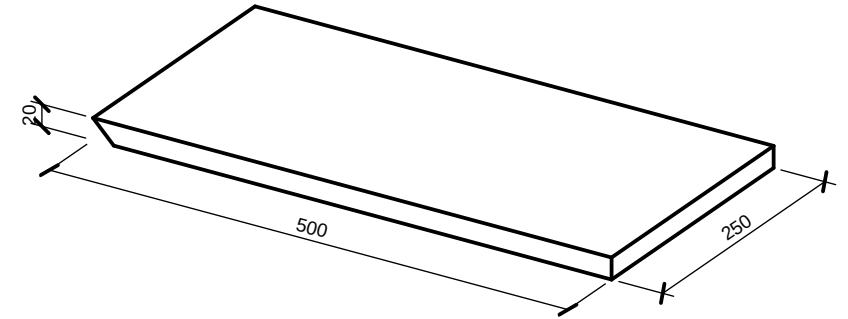
part	side
of	splined_shelf_corner
make	1
cut size	400 x 250 x 20
material	oak
scale	1:4, mm



TOP FACE



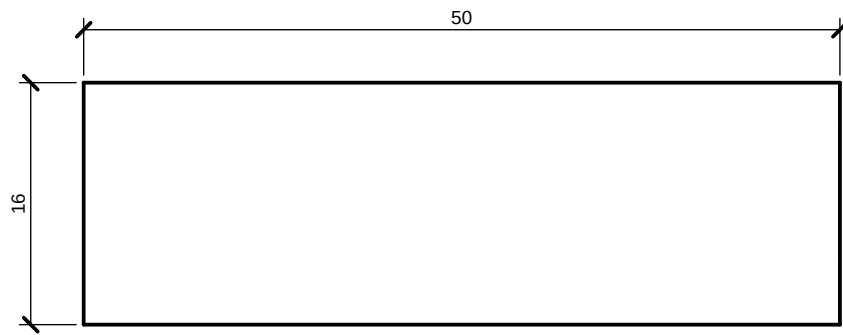
FRONT EDGE



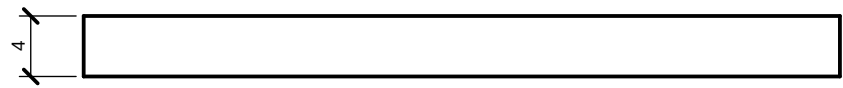
ISOMETRIC

- 1 mitre 45 deg on left_end, bottom_face inside
- 2 spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, stopped, 25 to 75 from front_edge
- 3 spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, stopped, 100 to 150 from front_edge
- 4 spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, stopped, 175 to 225 from front_edge

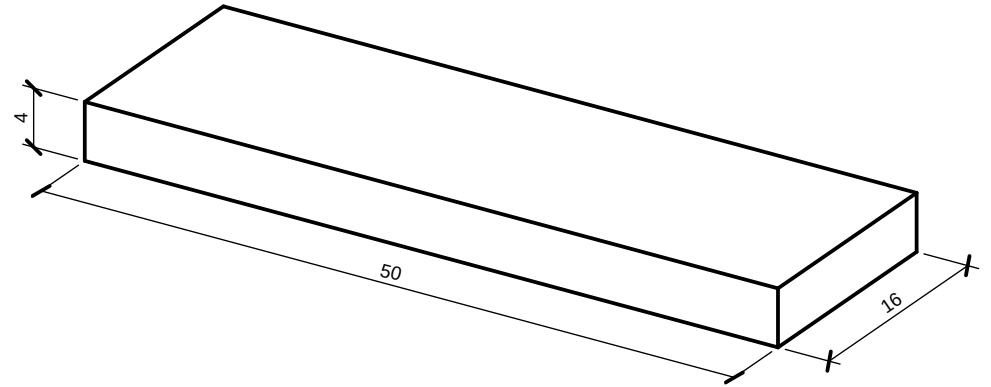
part	top
of	splined_shelf_corner
make	1
cut size	500 x 250 x 20
material	oak
scale	1:4, mm



TOP FACE



FRONT EDGE



ISOMETRIC

3 pieces: spline_1, spline_2, spline_3

part	spline
of	splined_shelf_corner
make	3
cut size	50 x 16 x 4
material	oak
scale	2:1, mm

Cut list

side 400 x 250 x 20 mm oak
- mitre 45 deg on right_end, bottom_face inside
- spline groove 4 mm, 9 deep, square to the mitre with top, along the corner, stopped, 25 to 75 from front_edge
- spline groove 4 mm, 9 deep, square to the mitre with top, along the corner, stopped, 100 to 150 from front_edge
- spline groove 4 mm, 9 deep, square to the mitre with top, along the corner, stopped, 175 to 225 from front_edge
top 500 x 250 x 20 mm oak
- mitre 45 deg on left_end, bottom_face inside
- spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, stopped, 25 to 75 from front_edge
- spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, stopped, 100 to 150 from front_edge
- spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, stopped, 175 to 225 from front_edge
spline 50 x 16 x 4 mm oak, 3 pieces: spline_1, spline_2, spline_3

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.splined_shelf_corner
```

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

```
def splined_shelf_corner(
    side_height: float = 400, top_length: float = 500, depth: float = 250, stock: Stock = OAK
) -> Assembly:
    """The top corner of a shelf, mitred across the edges, with three short
    oak splines in a row along the corner, in stopped grooves (routed) with
    equal gaps between them, so the joint doesn't show at the front or the
    back. Lengths to the outside."""
    asm = Assembly("splined_shelf_corner", root_location=CASE_SIDE)
    side = asm.add(Board("side", stock, length=side_height, width=depth))
    top = asm.add(Board("top", stock, length=top_length, width=depth))
    splines = tuple(
        asm.add(Board(f"spline_{i + 1}", THIN_SPLINE_OAK, length=50, width=16)) for i in range(3)
    )
    asm.join(
        SplinedMitre(
            side.right_end, top.left_end, side.bottom_face, top.bottom_face, splines=splines
        )
    )
    return asm
```