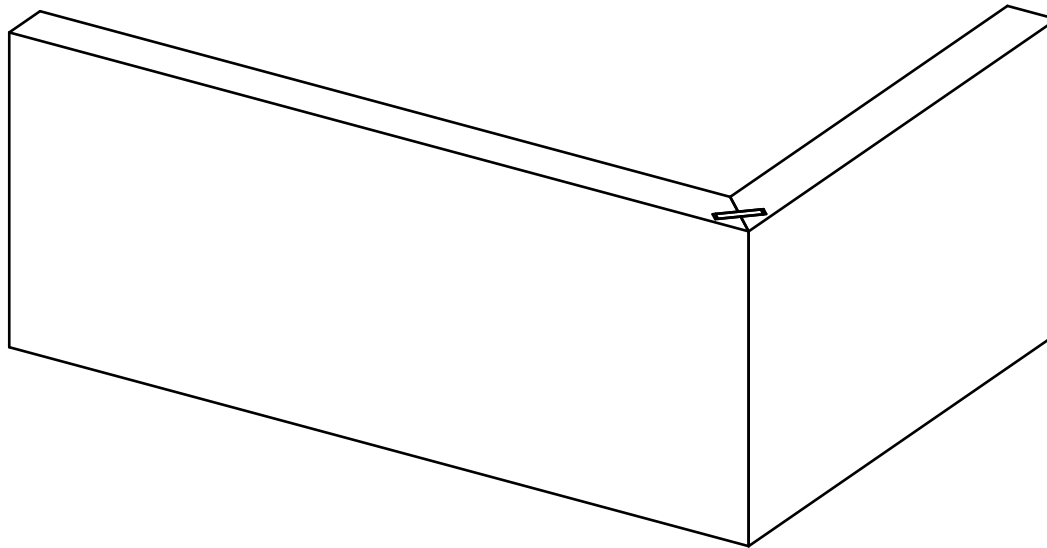


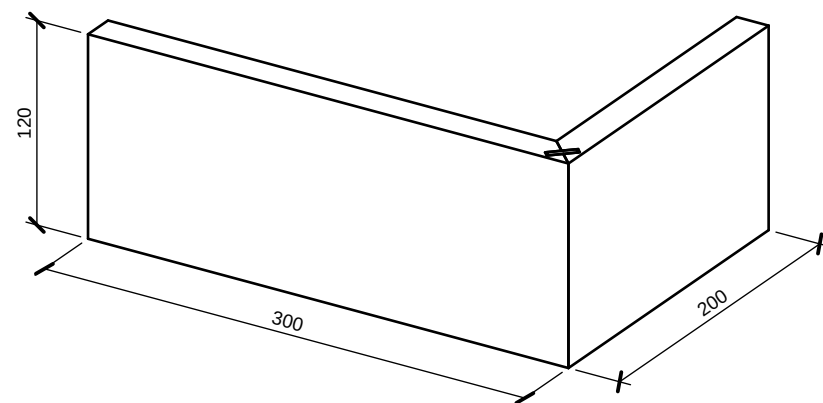
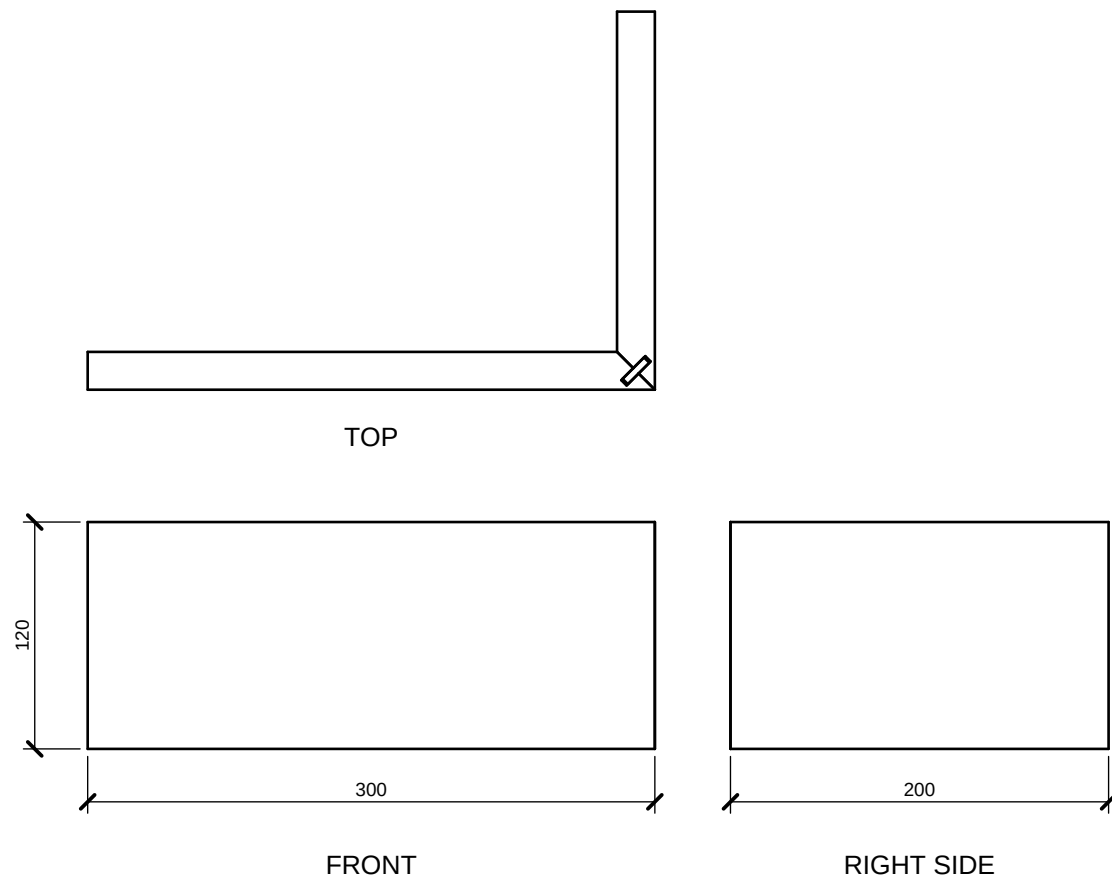
Splined box corner



parts	3
overall	300 x 200 x 120 (W x D x H)
material	oak, plywood
date	2026-10-25
made with	woodwright 0.9.0

Contents

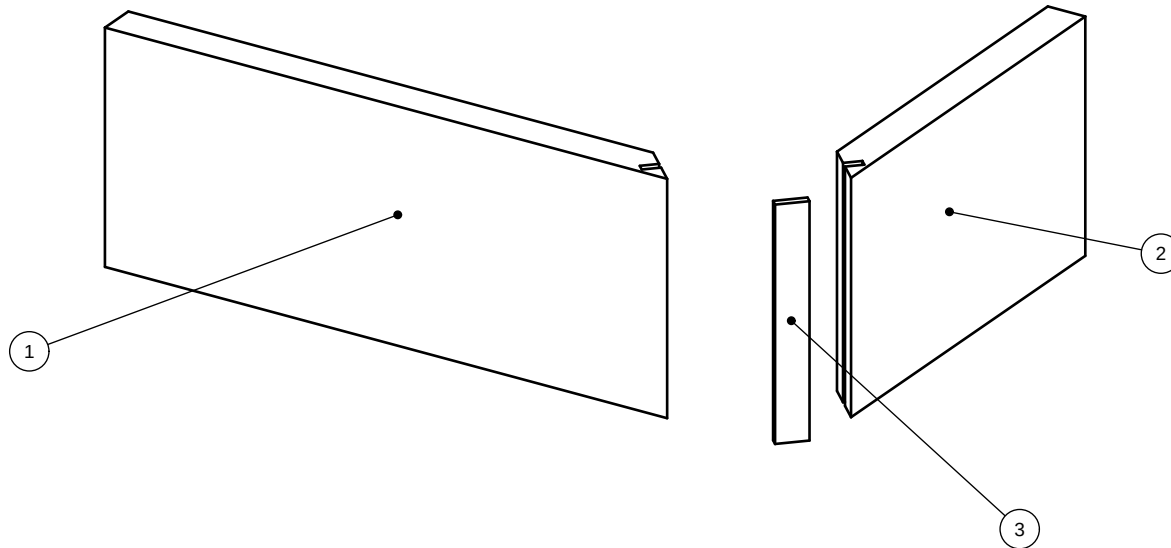
Drawings	3
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1 front	5
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ISOMETRIC

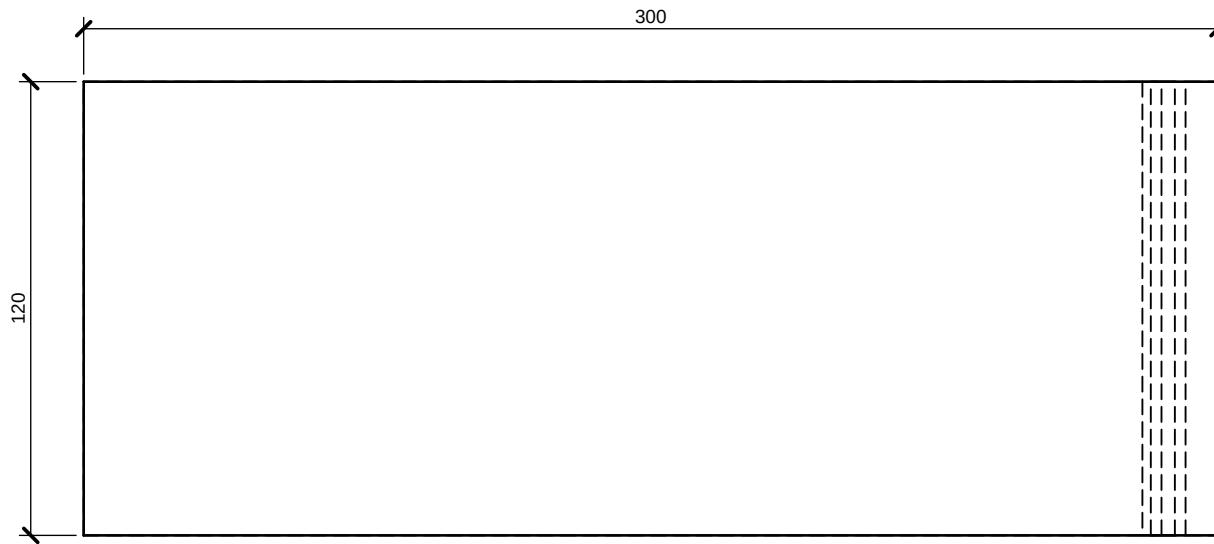
assembly	splined_box_corner
parts	3
overall	300 x 200 x 120 (W x D x H)
material	oak, plywood
scale	1:4, mm

no.	part	qty	cut size (L x W x T)	material	
1	front	1	300 x 120 x 20	oak	
2	side	1	200 x 120 x 20	oak	mirror image
3	spline	1	120 x 16 x 4	plywood	

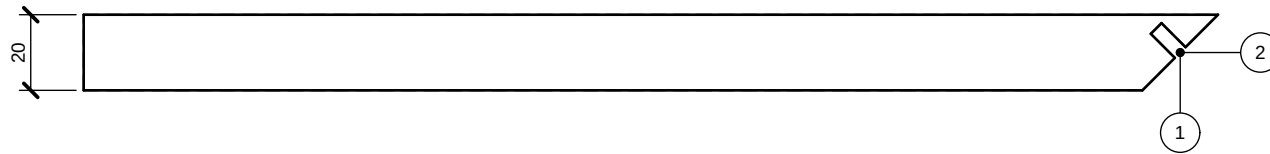


EXPLODED

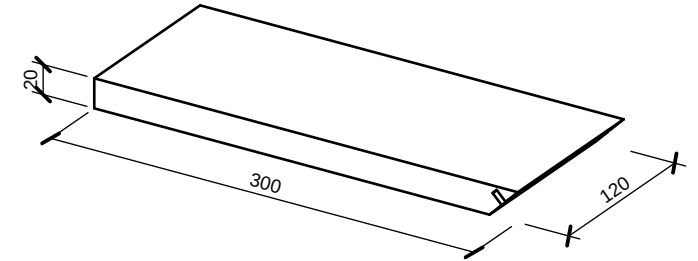
assembly	splined_box_corner
parts	3
overall	300 x 200 x 120 (W x D x H)
material	oak, plywood
scale	not to scale, mm



TOP FACE



FRONT EDGE

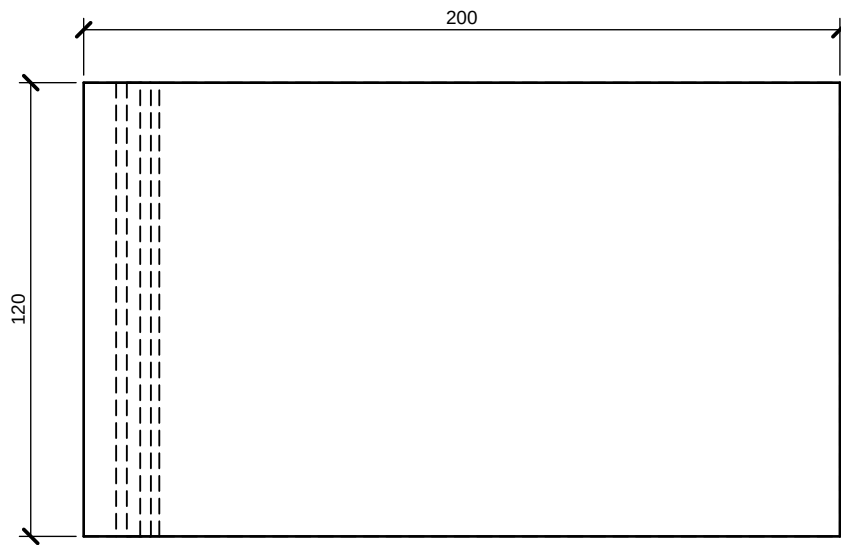


ISOMETRIC

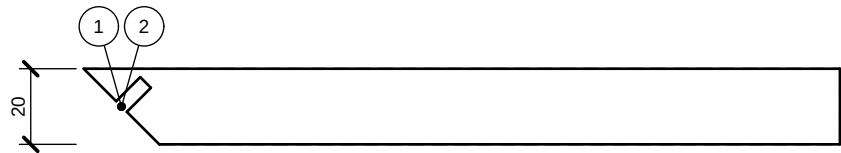
1 mitre 45 deg on right_end, bottom_face inside

2 spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, through

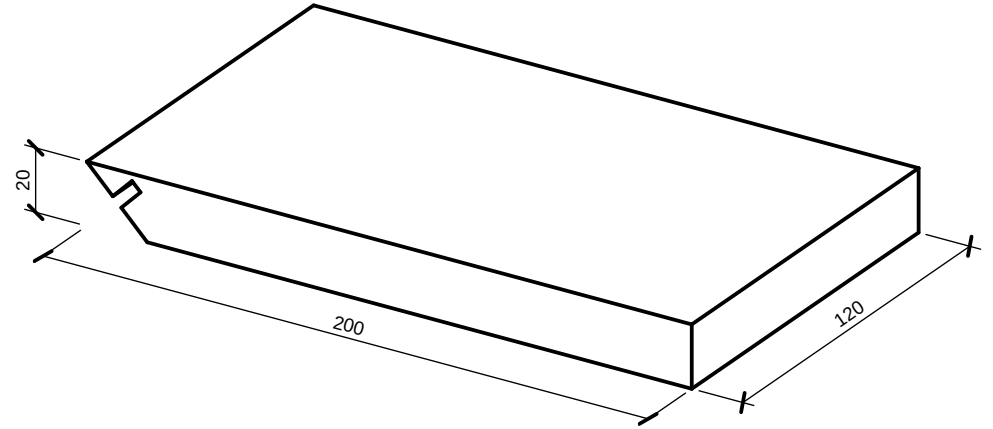
part	front
of	splined_box_corner
make	1
cut size	300 x 120 x 20
material	oak
scale	1:2, mm



TOP FACE



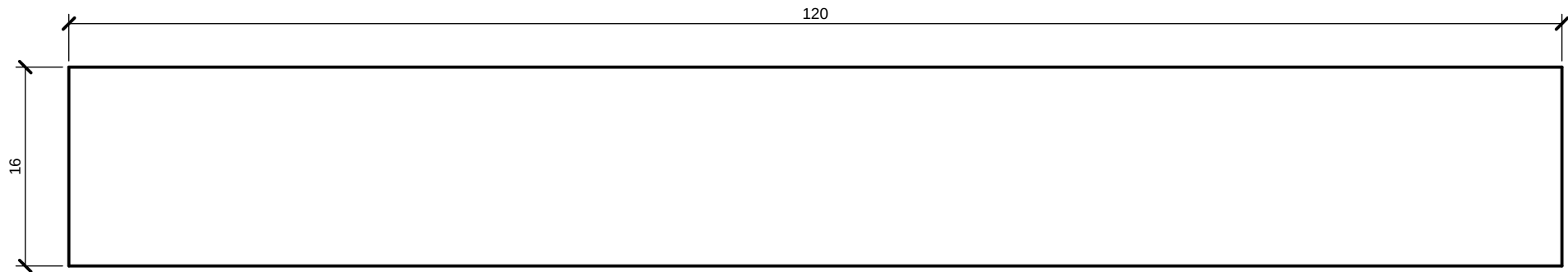
FRONT EDGE



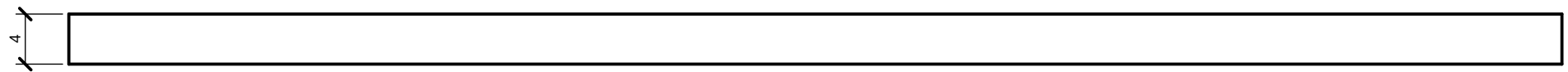
ISOMETRIC

- 1 mitre 45 deg on right_end, bottom_face inside
- 2 spline groove 4 mm, 9 deep, square to the mitre with front, along the corner, through

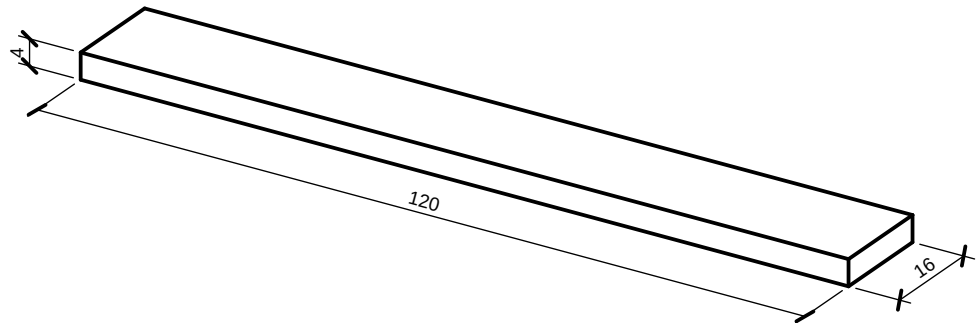
part	side
of	splined_box_corner
make	1
cut size	200 x 120 x 20
material	oak, mirror image
scale	1:2, mm



TOP FACE



FRONT EDGE



ISOMETRIC

part	spline
of	splined_box_corner
make	1
cut size	120 x 16 x 4
material	plywood
scale	2:1, mm

Cut list

front 300 x 120 x 20 mm oak
- mitre 45 deg on right_end, bottom_face inside
- spline groove 4 mm, 9 deep, square to the mitre with side, along the corner, through
side 200 x 120 x 20 mm oak, mirror image
- mitre 45 deg on right_end, bottom_face inside
- spline groove 4 mm, 9 deep, square to the mitre with front, along the corner, through
spline 120 x 16 x 4 mm plywood

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_box_corner
```

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

```
def splined_box_corner(
    front_length: float = 300, side_length: float = 200, height: float = 120, stock: Stock = OAK
) -> Assembly:
    """A box corner mitred across the edges, with a plywood spline through
    the whole height of the corner, in grooves sawn square to the mitre
    faces (the blade tilted 45 degrees); lengths to the outside.

    Plywood, as a spline with its grain along the corner would split easily.
    """
    asm = Assembly("splined_box_corner", root_location=BOX_FRONT)
    front = asm.add(Board("front", stock, length=front_length, width=height))
    side = asm.add(Board("side", stock, length=side_length, width=height, mirror=True))
    spline = asm.add(Board("spline", SPLINE_PLYWOOD, length=height, width=16))
    asm.join(
        SplinedMitre(
            front.right_end, side.right_end, front.bottom_face, side.bottom_face, splines=(spline,)
        )
    )
    return asm
```