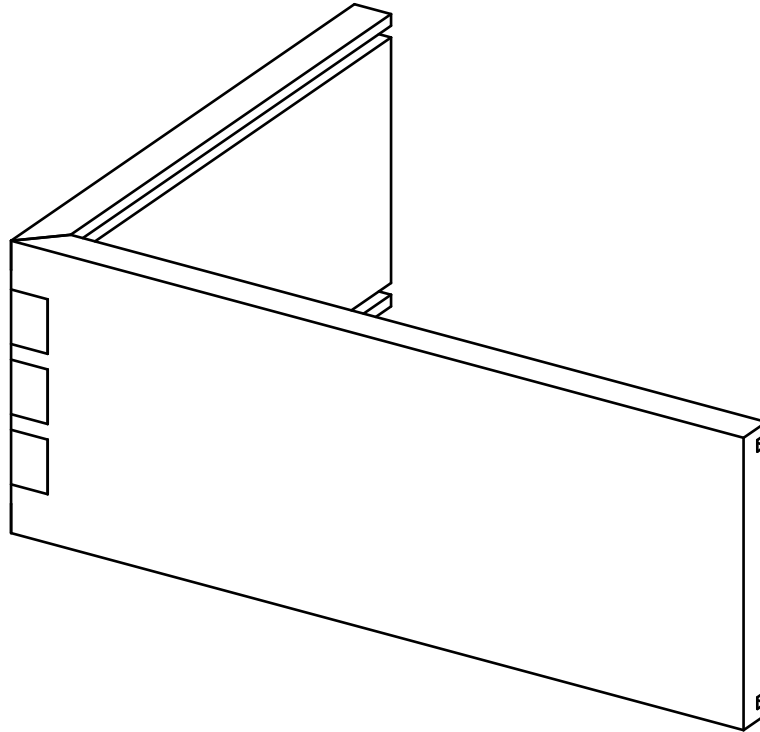


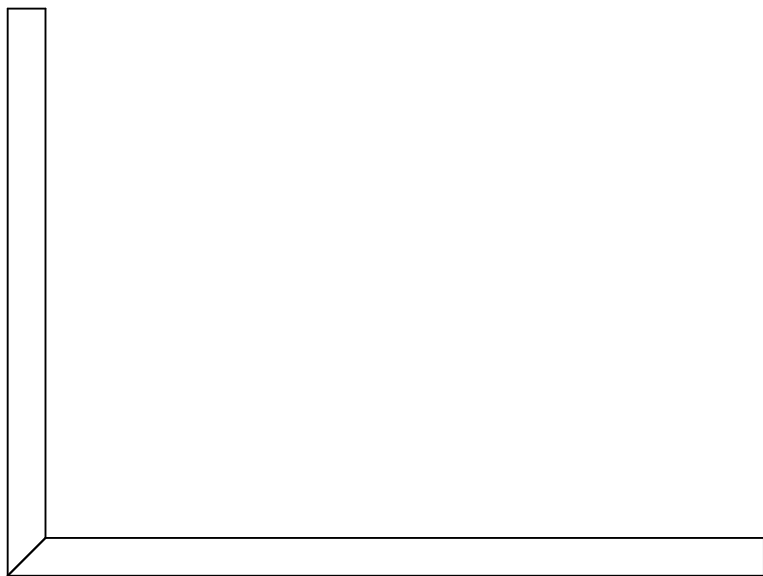
Mitred dovetail corner



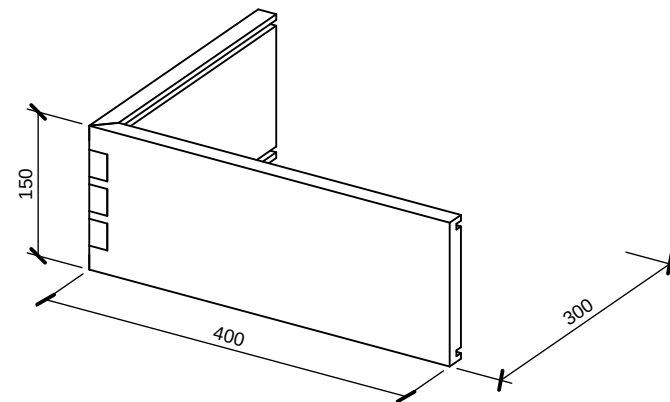
parts	2
overall	400 x 300 x 150 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

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TOP



ISOMETRIC

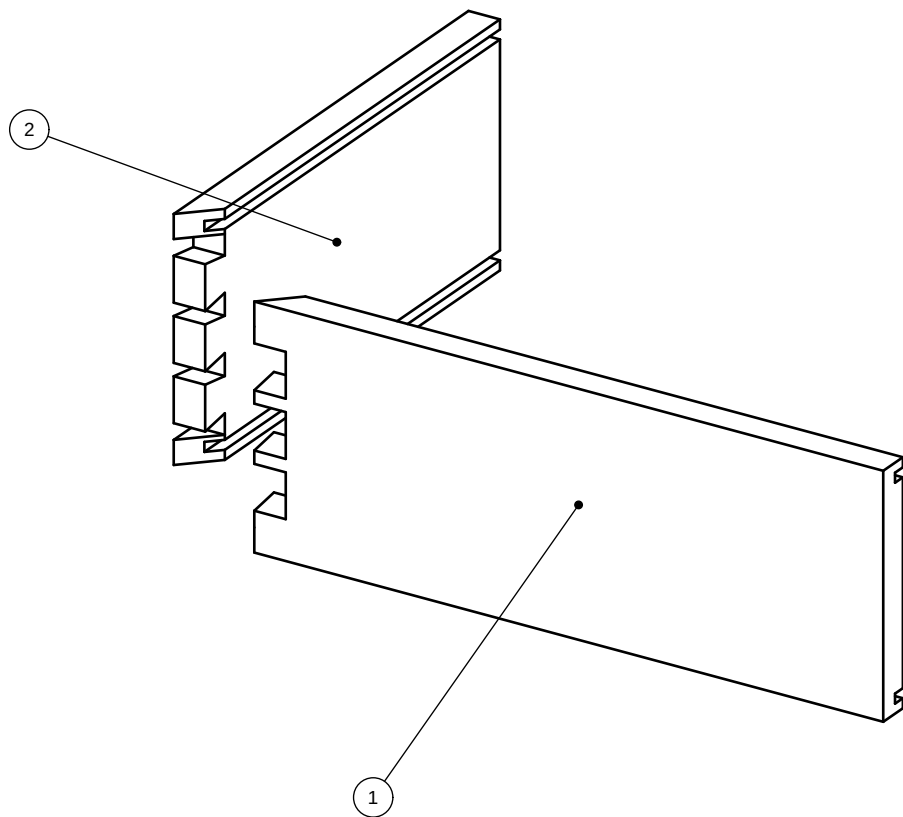


FRONT



RIGHT SIDE

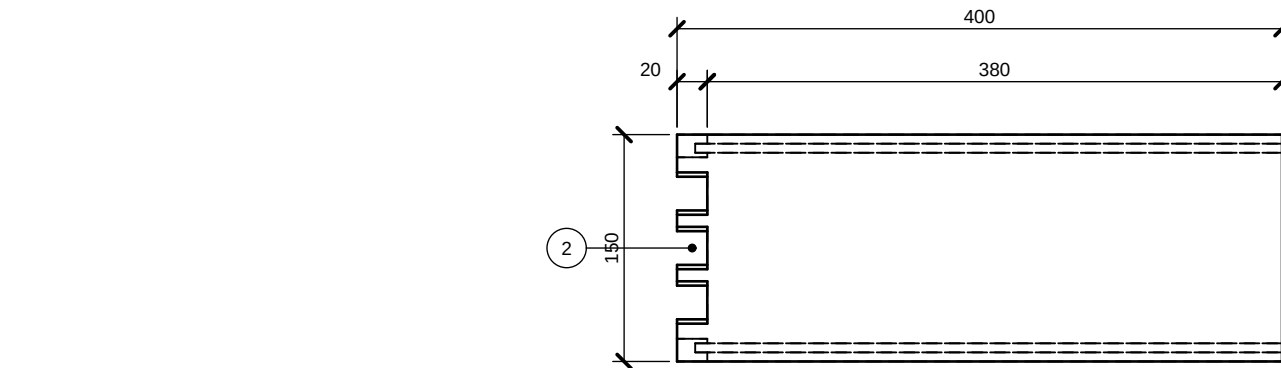
assembly	mitred_dovetail_corner
parts	2
overall	400 x 300 x 150 (W x D x H)
material	oak
scale	1:4, mm



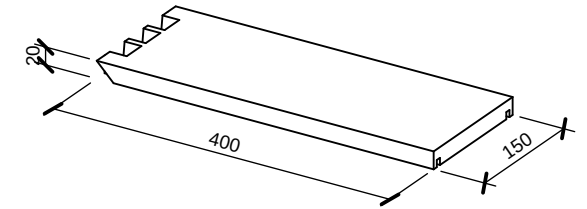
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	front	1	400 x 150 x 20	oak
2	side	1	300 x 150 x 20	oak

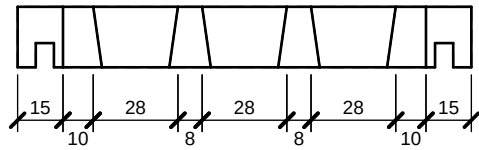
assembly	mitred_dovetail_corner
parts	2
overall	400 x 300 x 150 (W x D x H)
material	oak
scale	not to scale, mm



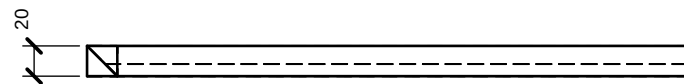
TOP FACE



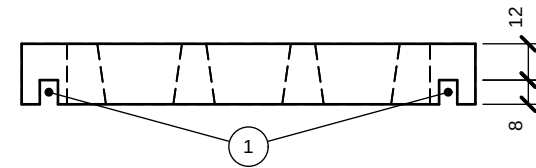
ISOMETRIC



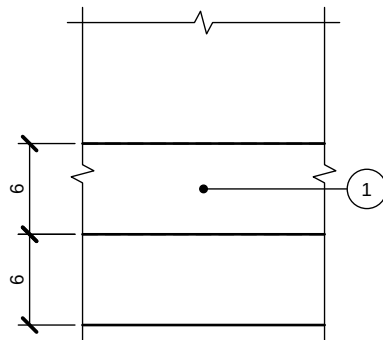
LEFT END 1:2.5



FRONT EDGE



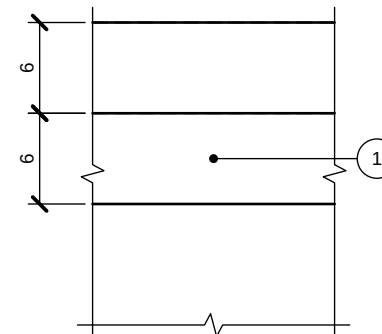
RIGHT END 1:2.5



BOTTOM FACE: 1 2:1



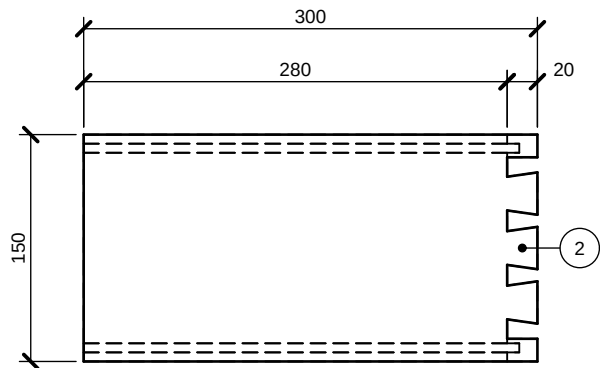
BOTTOM FACE



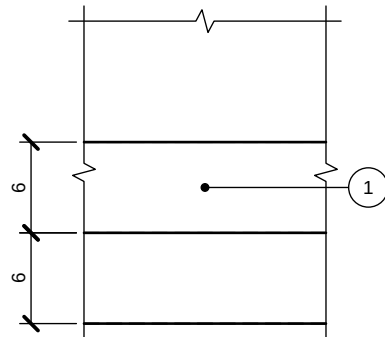
BOTTOM FACE: 1 2:1

- 1 2 x groove 6 mm, 8 deep, in bottom_face
2 sockets for 3 dovetails, mitred 15 mm at front_edge, back_edge

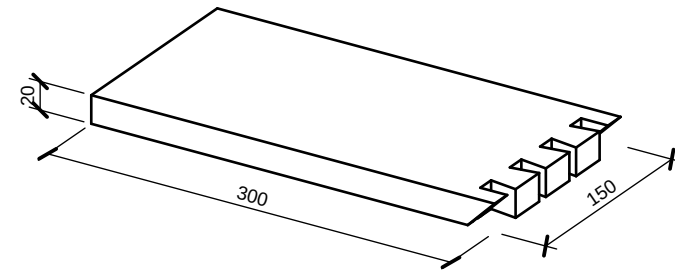
part	front
of	mitred_dovetail_corner
make	1
cut size	400 x 150 x 20
material	oak
scale	1:5, mm



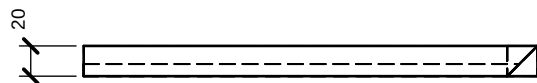
TOP FACE



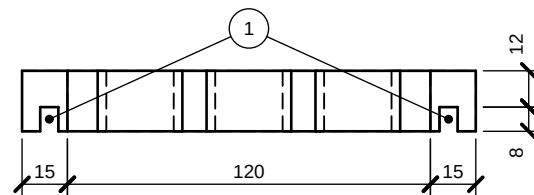
BOTTOM FACE: 1 2:1



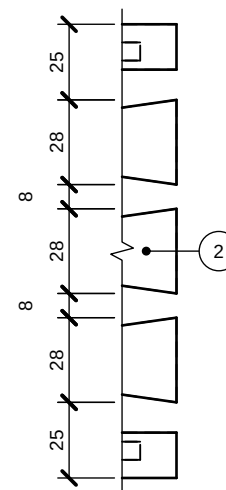
ISOMETRIC



FRONT EDGE



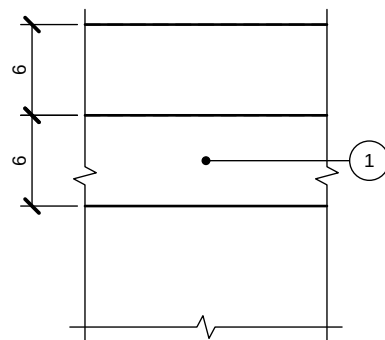
RIGHT END 1:2.5



TOP FACE: 2 1:2.5



BOTTOM FACE



BOTTOM FACE: 1 2:1

- 1 2 x groove 6 mm, 8 deep, in bottom_face
2 3 dovetails, slope 1:7, mitred 15 mm at front_edge, back_edge

part	side
of	mitred_dovetail_corner
make	1
cut size	300 x 150 x 20
material	oak
scale	1:5, mm

Cut list

front 400 x 150 x 20 mm oak
- 2 x groove 6 mm, 8 deep, in bottom_face
- sockets for 3 dovetails, mitred 15 mm at front_edge, back_edge
side 300 x 150 x 20 mm oak
- 2 x groove 6 mm, 8 deep, in bottom_face
- 3 dovetails, slope 1:7, mitred 15 mm at front_edge, back_edge

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.mitred_dovetail_corner
```

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

```
def mitred_dovetail_corner(
    front_length: float = 400,
    side_length: float = 300,
    height: float = 150,
    groove_width: float = 6,
    groove_depth: float = 8,
    stock: Stock = OAK,
) -> Assembly:
    """The corner of a box made to be sawn open: through dovetails mitred at both edges.

    The top and the bottom panel go into grooves along the inside of the
    walls, `groove_width` from the edges; the mitres at the edges hide where
    the grooves run out of the ends. Outside lengths, as `dovetail_corner`.
    """
    asm = Assembly("mitred_dovetail_corner", root_location=BOX_FRONT)
    t = stock.thickness
    front = asm.add(Board("front", stock, length=front_length - t, width=height))
    side = asm.add(Board("side", stock, length=side_length - t, width=height))
    asm.join(
        MitredCornerDovetail(
            tails=side.right_end, pins=front.left_end, tail_count=3, mitre_width=2.5 * groove_width
        )
    )
    # Along the inside faces, through the ends, within the mitres.
    for board in (front, side):
        for edge in (board.front_edge, board.back_edge):
            board.cut(Groove(board.bottom_face, groove_width, groove_depth, groove_width, edge))
    return asm
```