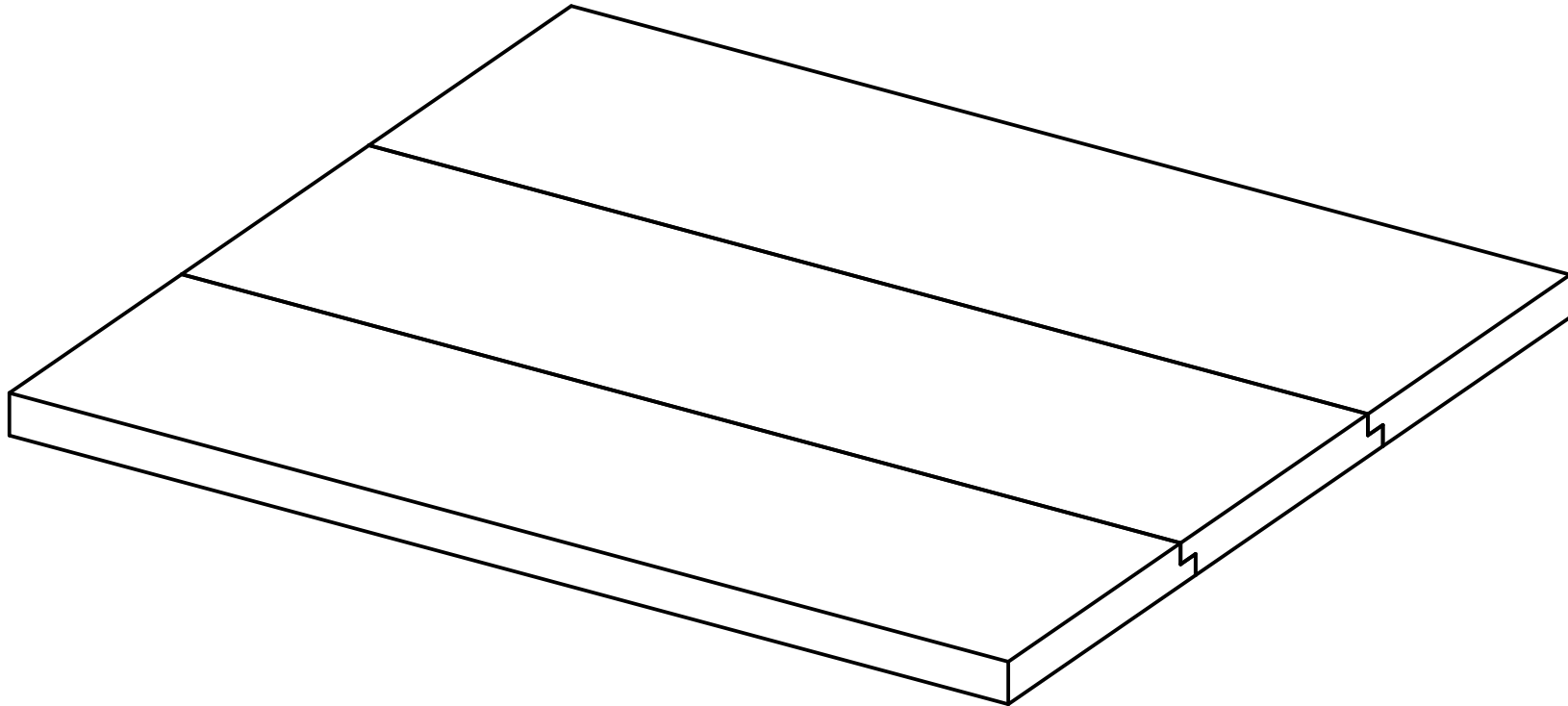


Shiplap panel



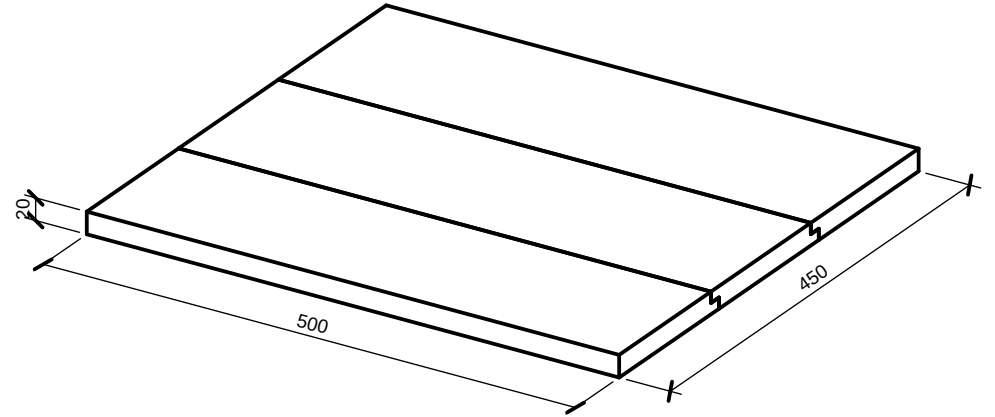
parts	3
overall	500 x 450 x 20 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

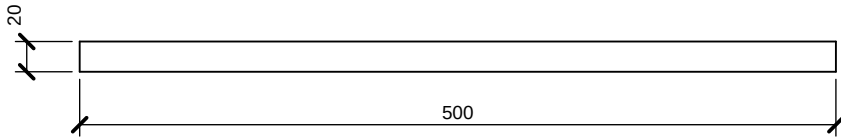
Drawings	3
Assembly	3
Parts	4
1 board_1	5
2 board_2	6
3 board_3	7
Cut list	8
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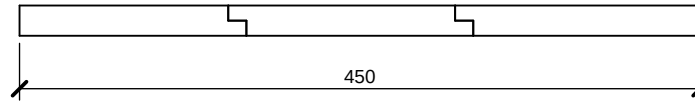
TOP



ISOMETRIC

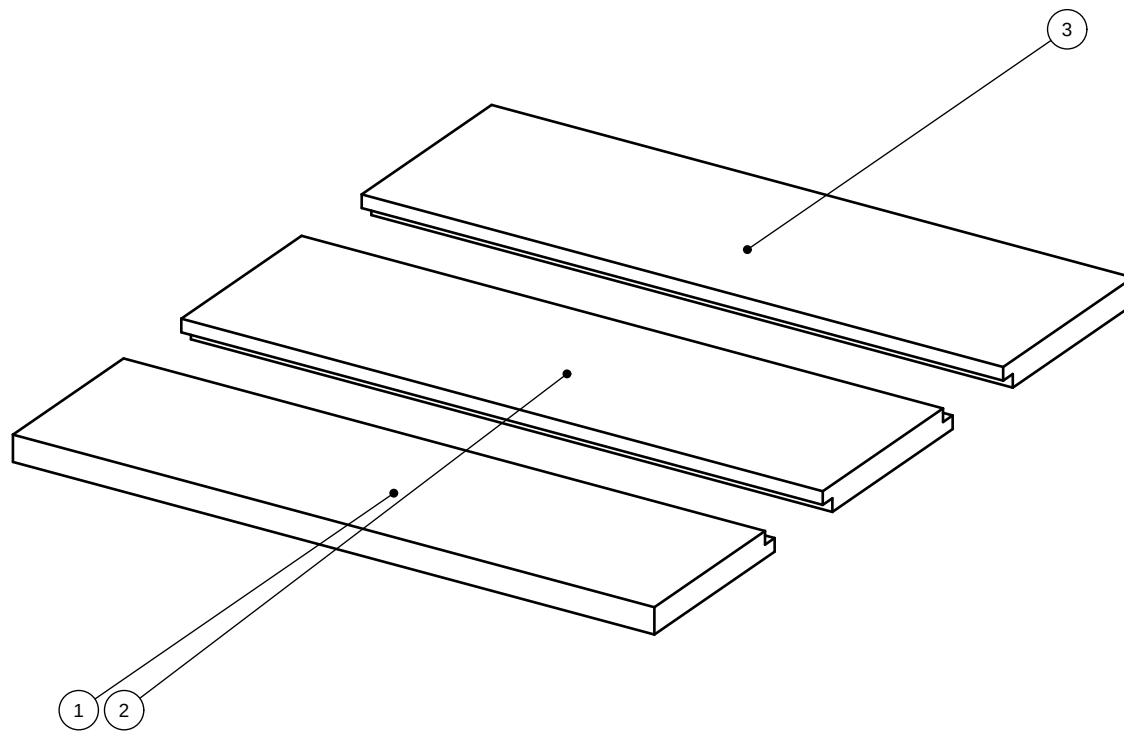


FRONT



RIGHT SIDE

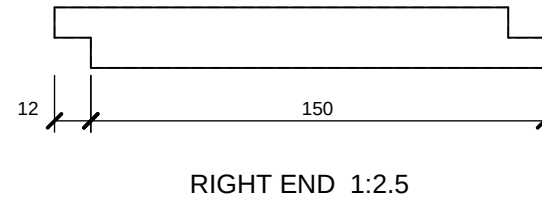
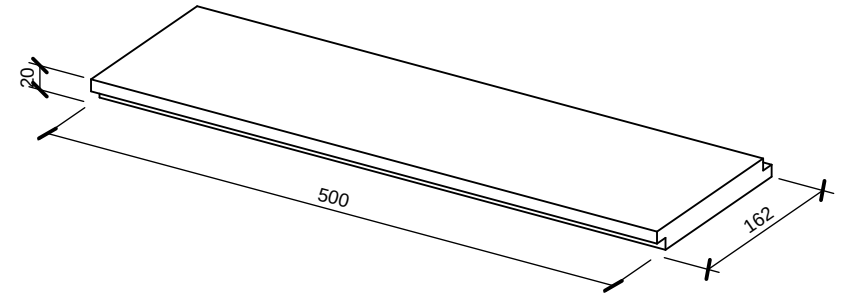
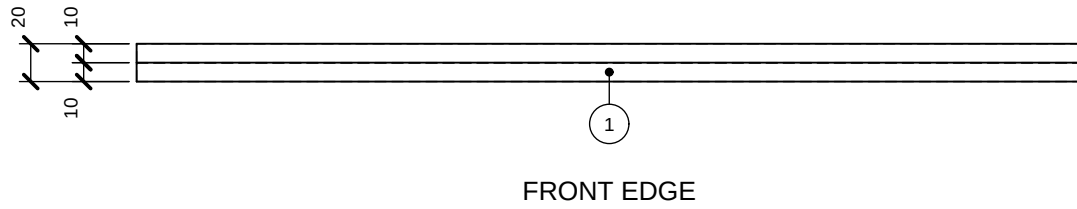
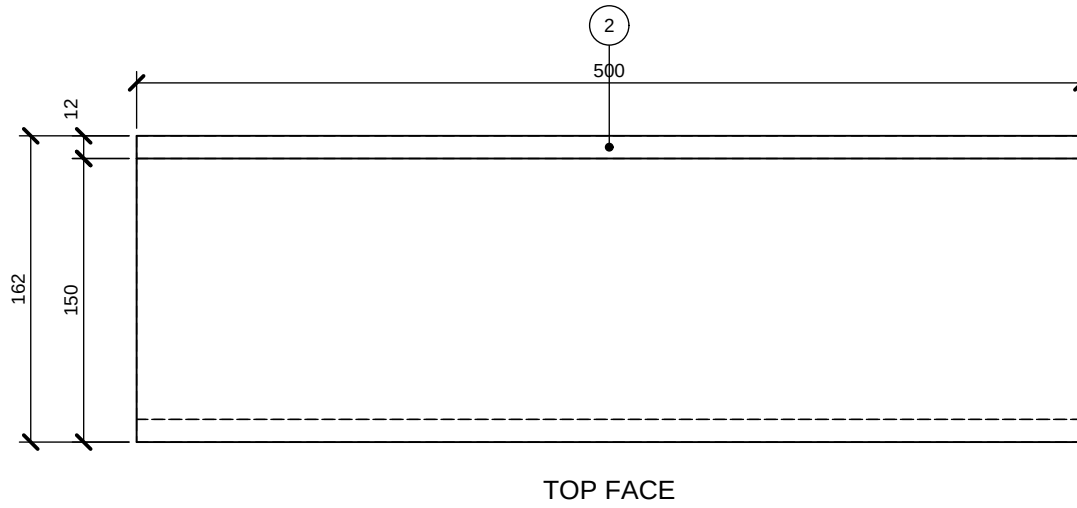
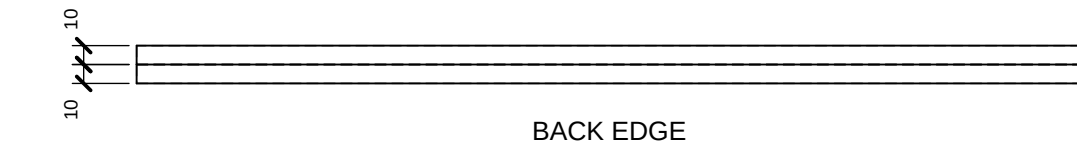
assembly	shiplap_panel
parts	3
overall	500 x 450 x 20 (W x D x H)
material	oak
scale	1:5, mm



EXPLODED

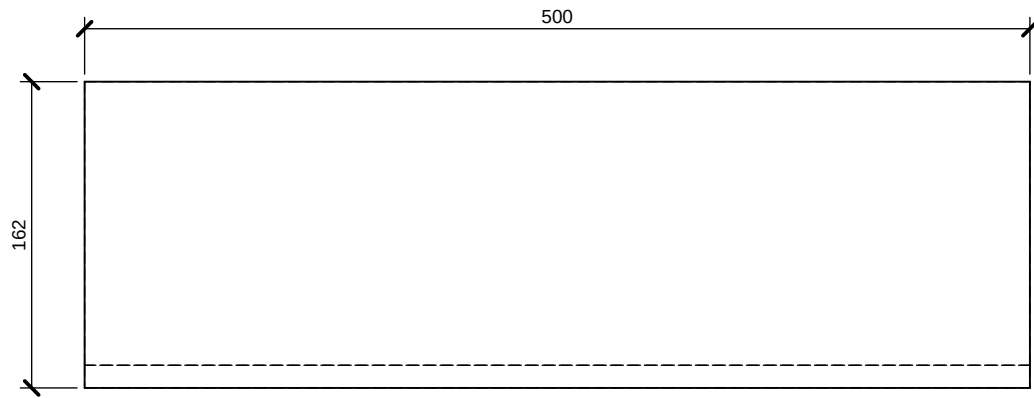
no.	part	qty	cut size (L x W x T)	material
1	board_1	1	500 x 150 x 20	oak
2	board_2	1	500 x 162 x 20	oak
3	board_3	1	500 x 162 x 20	oak

assembly	shiplap_panel
parts	3
overall	500 x 450 x 20 (W x D x H)
material	oak
scale	not to scale, mm

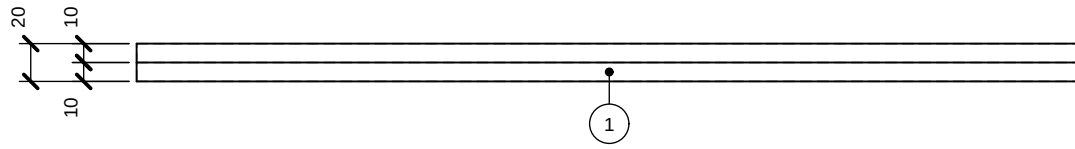


- 1 rabbet 12 mm, 10 deep, in bottom_face at front_edge
- 2 rabbet 10 mm, 12 deep, in back_edge at top_face

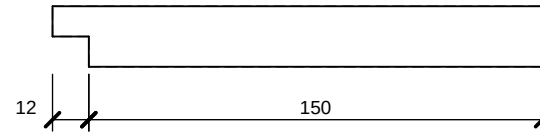
part	board_2
of	shiplap_panel
make	1
cut size	500 x 162 x 20
material	oak
scale	1:4, mm



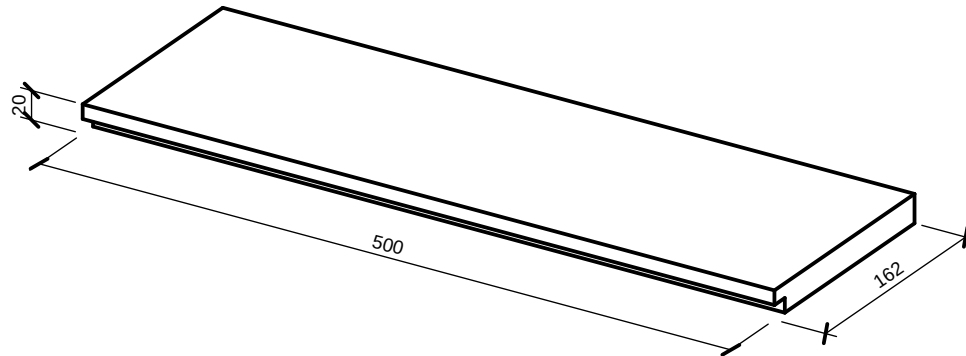
TOP FACE



FRONT EDGE



RIGHT END 1:2.5



ISOMETRIC

1 rabbet 12 mm, 10 deep, in bottom_face at front_edge

part	board_3
of	shiplap_panel
make	1
cut size	500 x 162 x 20
material	oak
scale	1:4, mm

Cut list

board_1 500 x 150 x 20 mm oak
- rabbet 10 mm, 12 deep, in back_edge at top_face
board_2 500 x 162 x 20 mm oak
- rabbet 12 mm, 10 deep, in bottom_face at front_edge
- rabbet 10 mm, 12 deep, in back_edge at top_face
board_3 500 x 162 x 20 mm oak
- rabbet 12 mm, 10 deep, in bottom_face at front_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.shiplap_panel
```

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

```
def shiplap_panel(
    length: float = 500, width: float = 150, lap: float = 12, count: int = 3, stock: Stock = OAK
) -> Assembly:
    """Boards edge to edge, lapped over each other in rabbets half their thickness.

    Along each joint the next board's rabbet, cut from below, lies over the
    previous one's, cut from above, `lap` wide: a "tongue" as thick as
    half the board, flush with its top face. Not glued, the boards can move
    and the lap covers the gap; the top shows a plain line at each joint.
    """
    asm = Assembly("shiplap_panel")
    boards = [
        asm.add(Board(f"board_{i + 1}", stock, length=length, width=width)) for i in range(count)
    ]
    for a, b in itertools.pairwise(boards):
        asm.join(
            TongueAndGroove(
                tongue=b.front_edge,
                groove=a.back_edge,
                tongue_thickness=rules.lap_thickness(stock.thickness),
                tongue_length=lap,
                tongue_offset=0,
            )
        )
    return asm
```