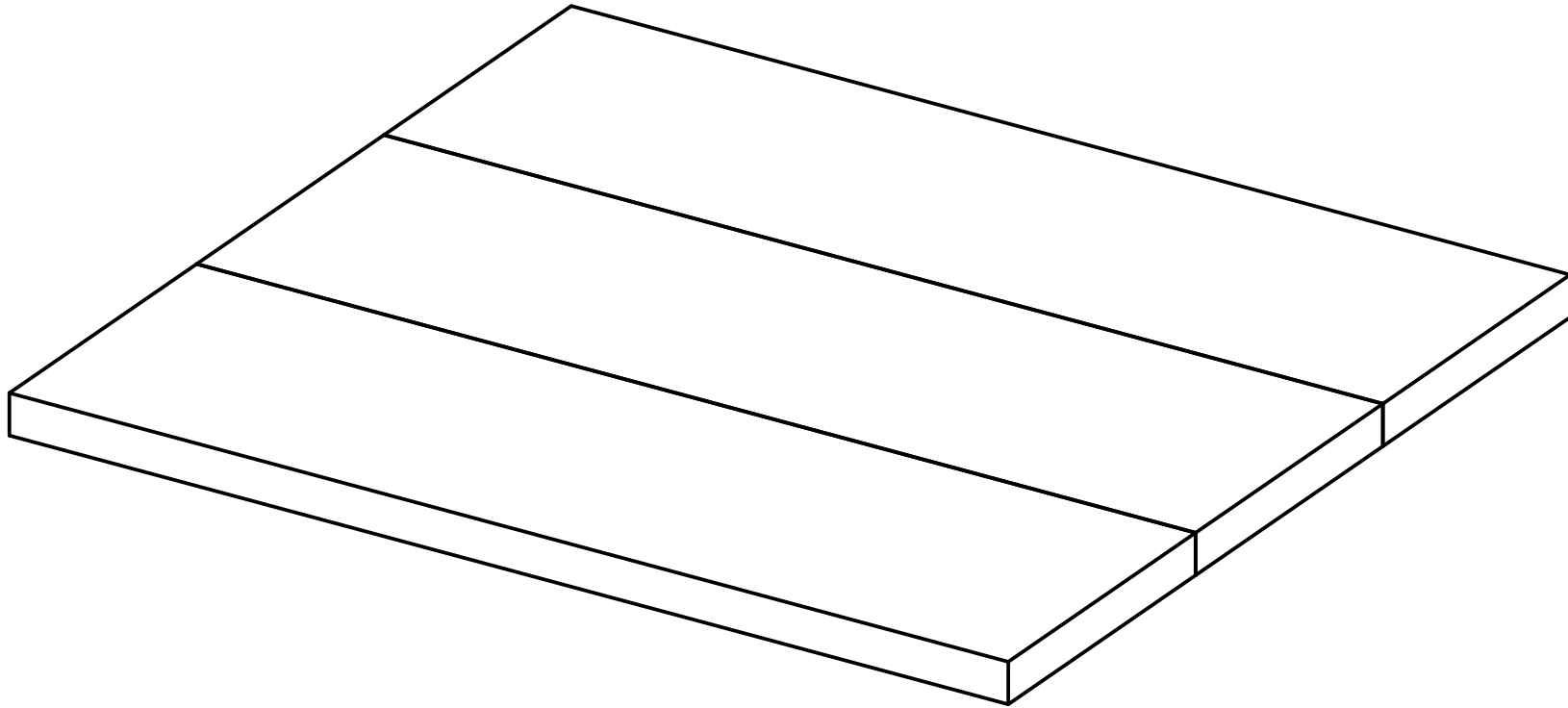


Loose tongue panel



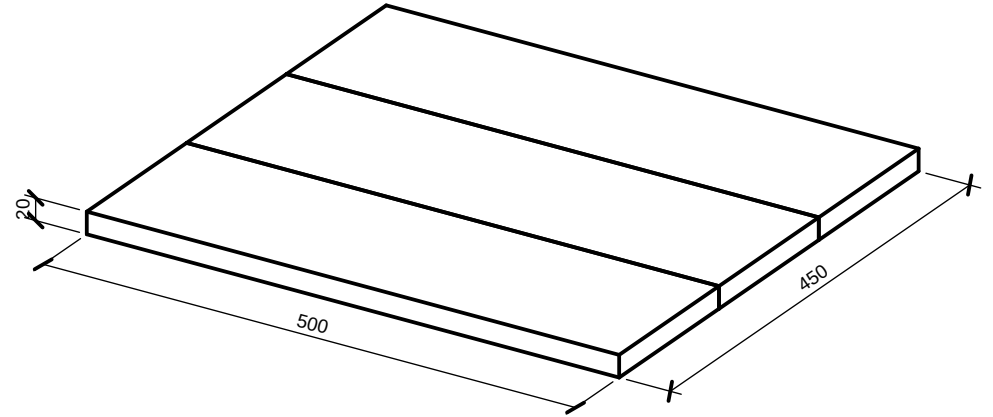
parts	5 (3 different)
overall	500 x 450 x 20 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

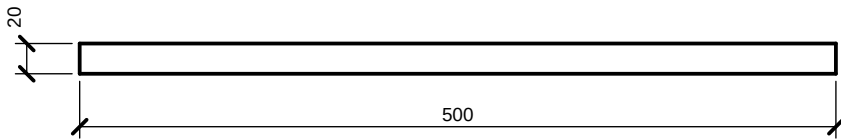
Drawings	3
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1 board	5
2 board_2	6
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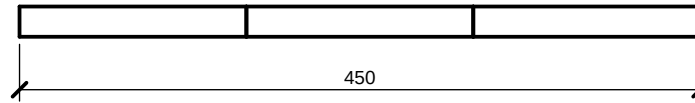
TOP



ISOMETRIC

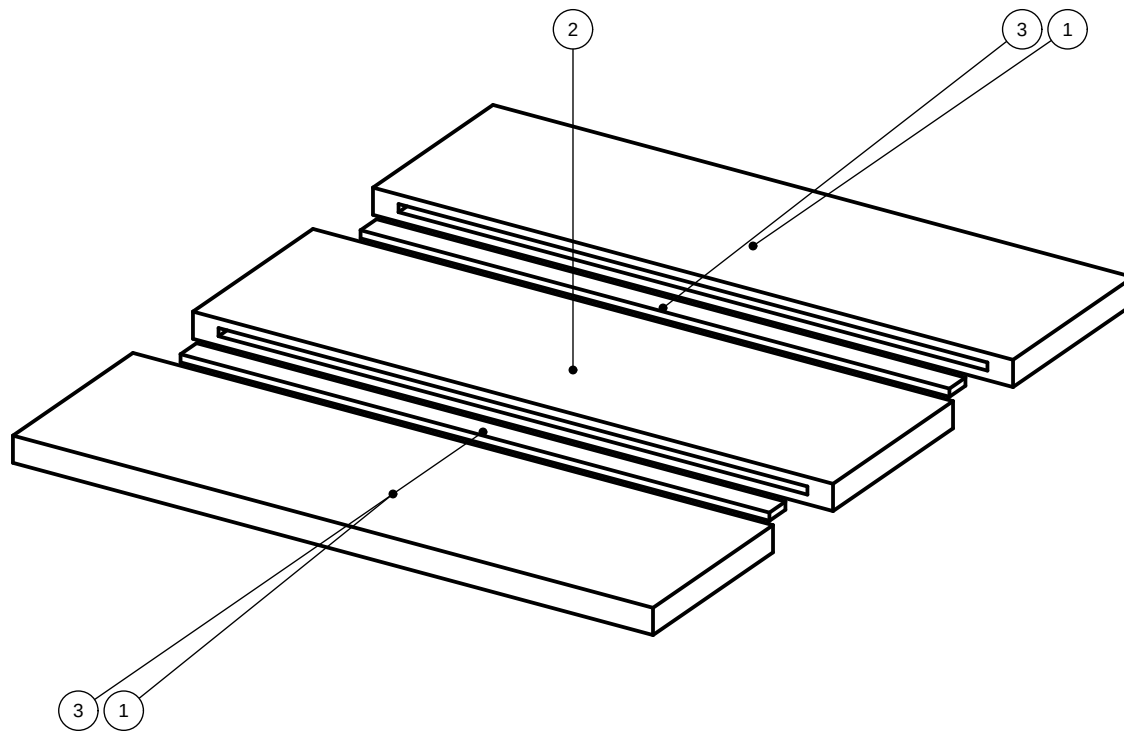


FRONT



RIGHT SIDE

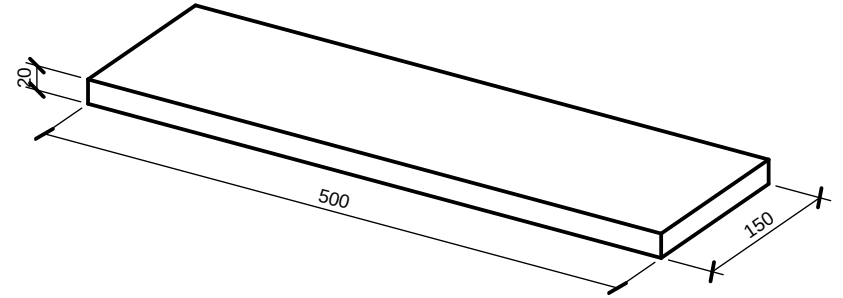
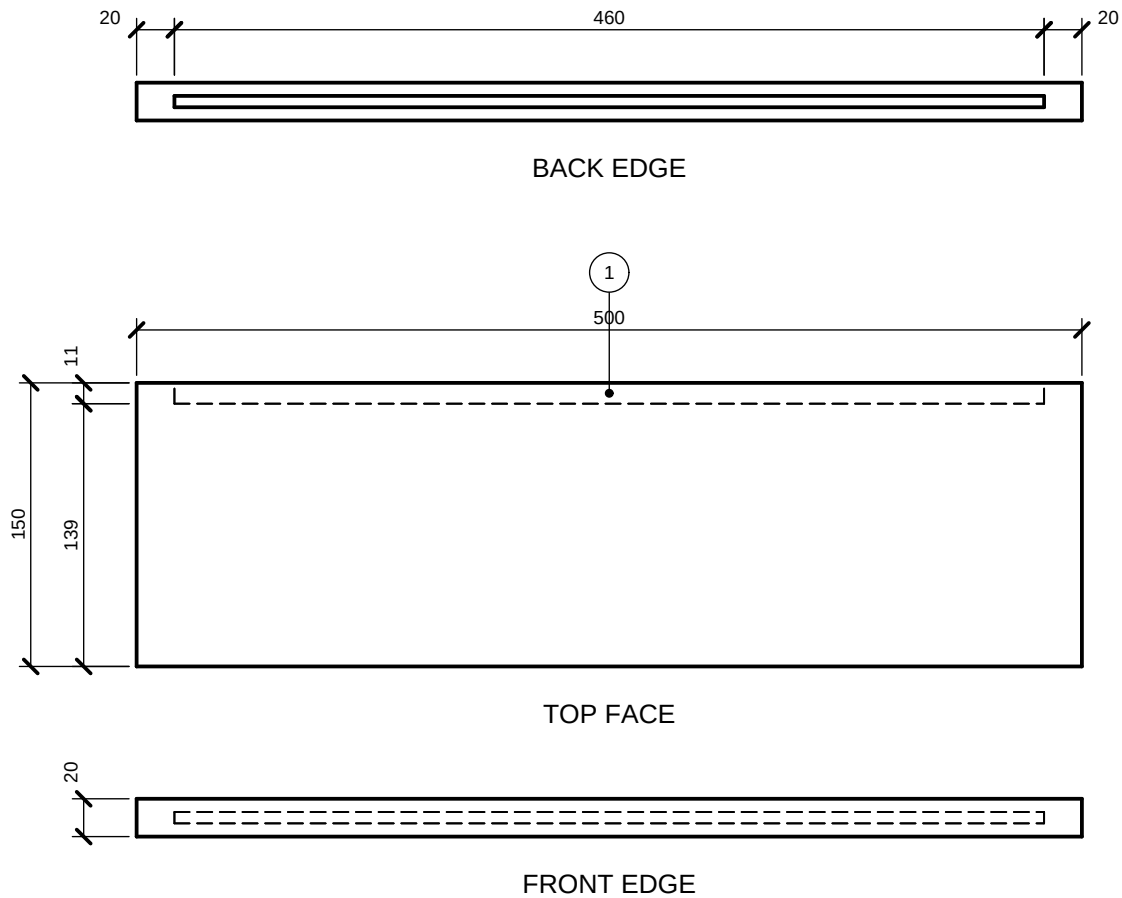
assembly	loose_tongue_panel
parts	5 (3 different)
overall	500 x 450 x 20 (W x D x H)
material	oak
scale	1:5, mm



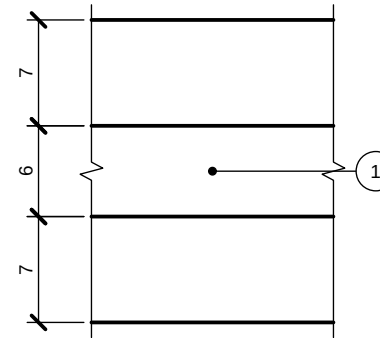
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	board	2	500 x 150 x 20	oak
2	board_2	1	500 x 150 x 20	oak
3	tongue	2	460 x 20 x 6	oak

assembly	loose_tongue_panel
parts	5 (3 different)
overall	500 x 450 x 20 (W x D x H)
material	oak
scale	not to scale, mm



ISOMETRIC

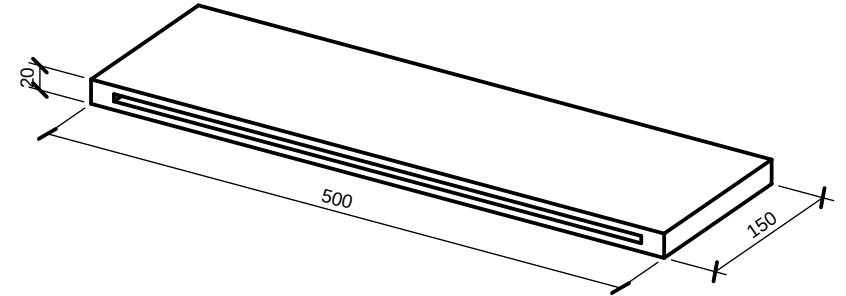
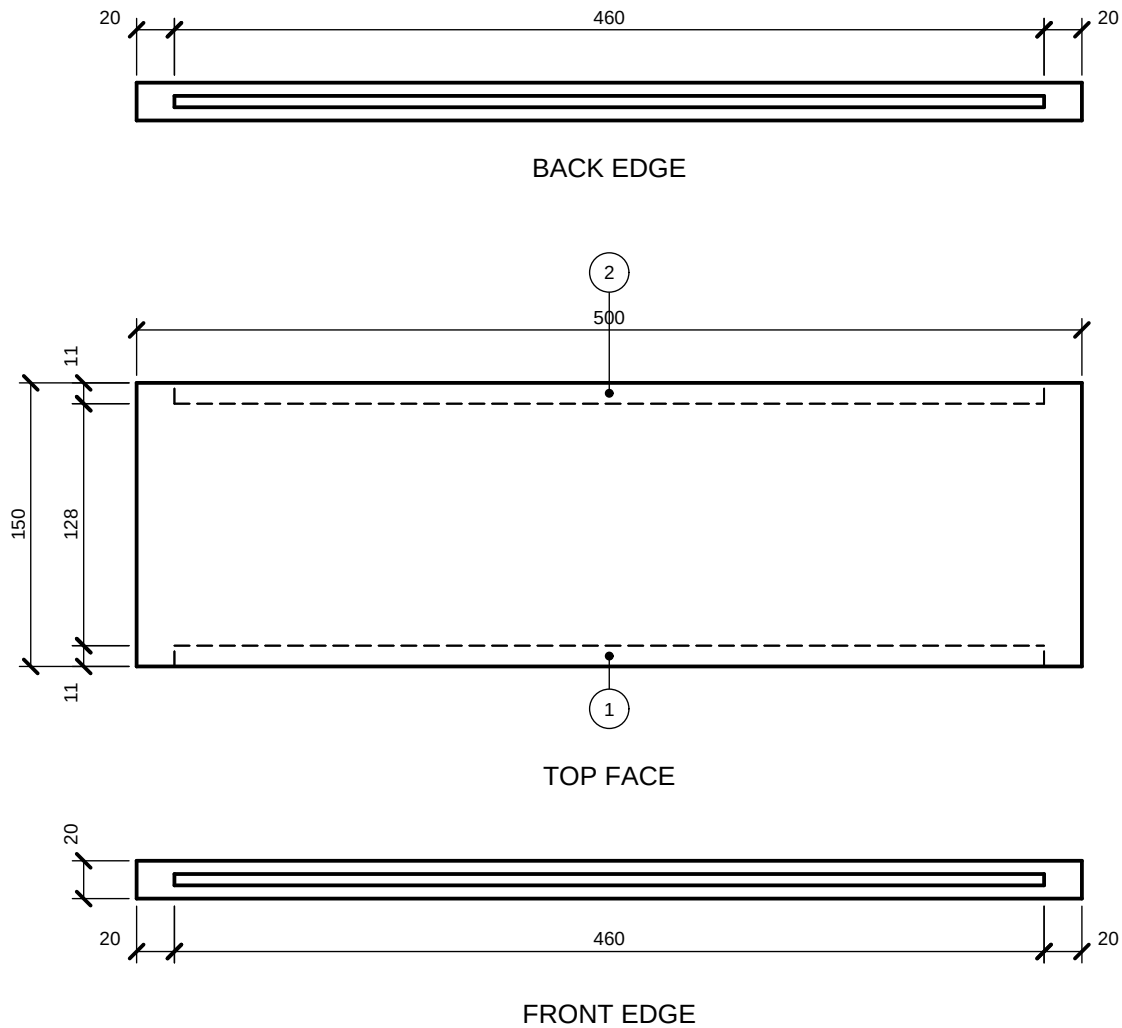


BACK EDGE: 1 2:1

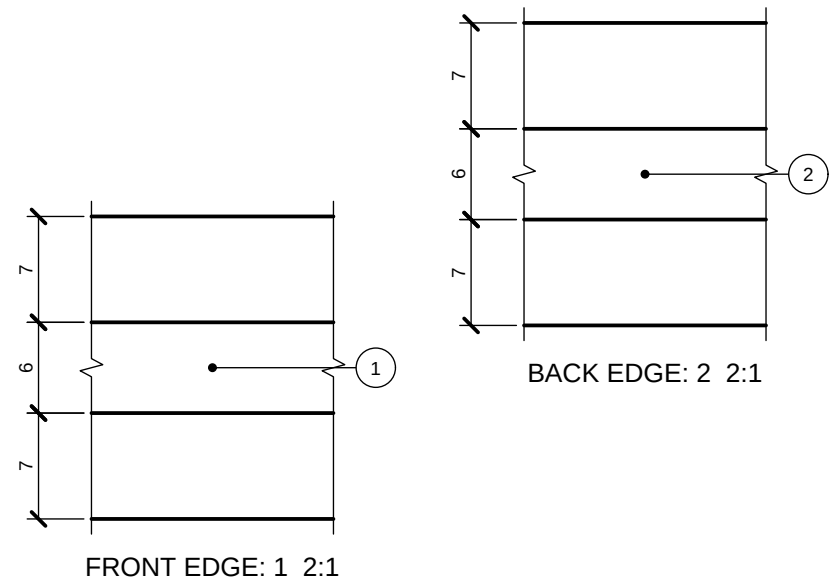
2 pieces: board_1, board_3

1 stopped groove 6 mm, 11 deep, in back_edge, 20 mm short of left_end and 20 mm short of right_end

part	board
of	loose_tongue_panel
make	2
cut size	500 x 150 x 20
material	oak
scale	1:4, mm

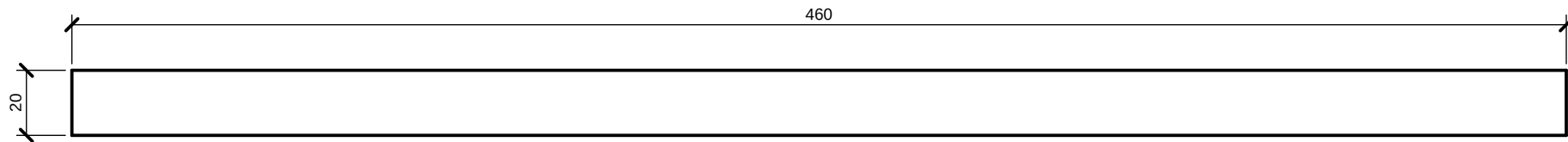


ISOMETRIC

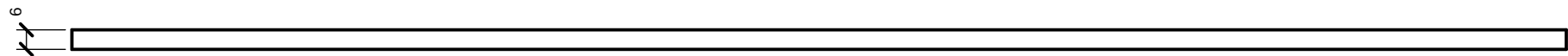


- 1 stopped groove 6 mm, 11 deep, in front_edge, 20 mm short of left_end and 20 mm short of right_end
- 2 stopped groove 6 mm, 11 deep, in back_edge, 20 mm short of left_end and 20 mm short of right_end

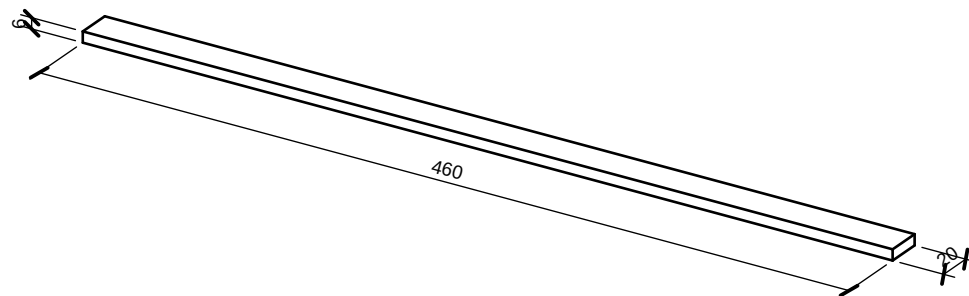
part	board_2
of	loose_tongue_panel
make	1
cut size	500 x 150 x 20
material	oak
scale	1:4, mm



TOP FACE



FRONT EDGE



ISOMETRIC

2 pieces: tongue_1, tongue_2

part	tongue
of	loose_tongue_panel
make	2
cut size	460 x 20 x 6
material	oak
scale	1:2, mm

Cut list

board 500 x 150 x 20 mm oak, 2 pieces: board_1, board_3
- stopped groove 6 mm, 11 deep, in back_edge, 20 mm short of left_end and 20 mm short of right_end
board_2 500 x 150 x 20 mm oak
- stopped groove 6 mm, 11 deep, in front_edge, 20 mm short of left_end and 20 mm short of right_end
- stopped groove 6 mm, 11 deep, in back_edge, 20 mm short of left_end and 20 mm short of right_end
tongue 460 x 20 x 6 mm oak, 2 pieces: tongue_1, tongue_2

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.loose_tongue_panel
```

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

```
def loose_tongue_panel(
    length: float = 500,
    width: float = 150,
    count: int = 3,
    tongue_width: float = 20,
    stop: float = 20,
    stock: Stock = OAK,
) -> Assembly:
    """Boards glued edge to edge, a loose tongue in a groove along each of
    the two edges at every joint.

    The tongues are strips of 6 mm oak, their grain along the joint,
    `tongue_width` wide, half of it in each board. They stop `stop` short
    of the ends of the boards, in stopped grooves (cut with a router, here
    square-ended) 1 mm deeper than the tongues reach, so the ends of the
    panel show no grooves.
    """
    asm = Assembly("loose_tongue_panel")
    boards = [
        asm.add(Board(f"board_{i + 1}", stock, length=length, width=width)) for i in range(count)
    ]
    for i, (a, b) in enumerate(itertools.pairwise(boards)):
        tongue = asm.add(
            Board(f"tongue_{i + 1}", SPLINE_OAK, length=length - 2 * stop, width=tongue_width)
        )
        asm.join(LooseTongue(a.back_edge, b.front_edge, tongue, through=False))
    return asm
```