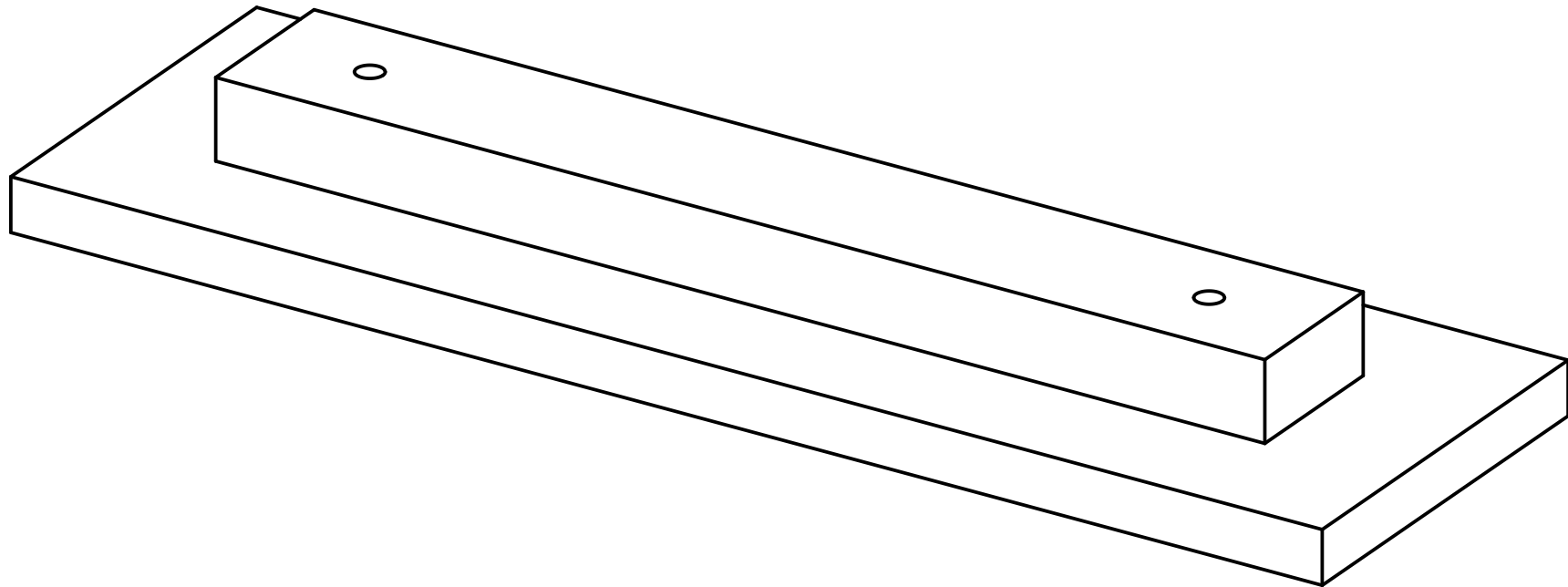


Plugged screws



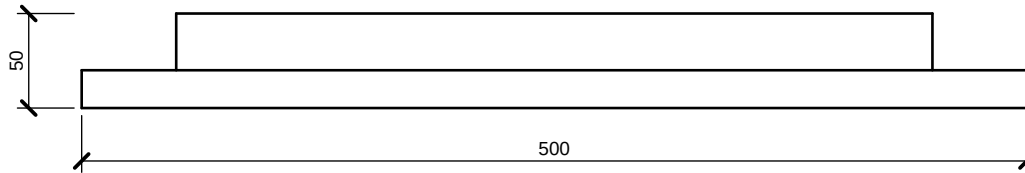
parts	2
overall	500 x 150 x 50 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

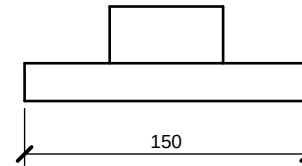
Drawings	3
Assembly	3
Parts	4
1 board	5
2 batten	6
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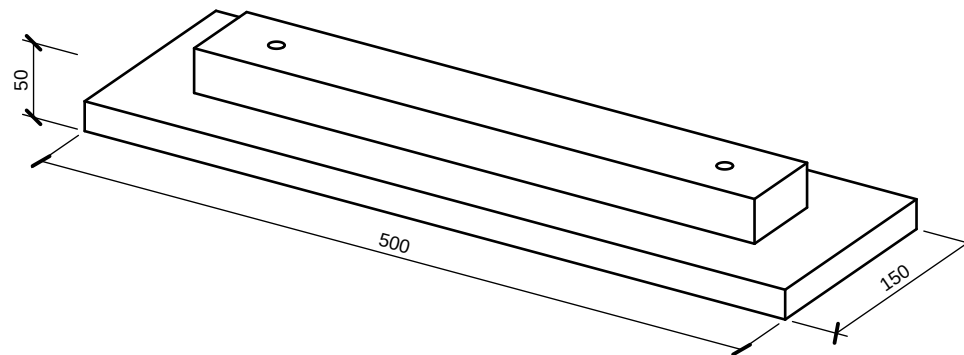
TOP



FRONT

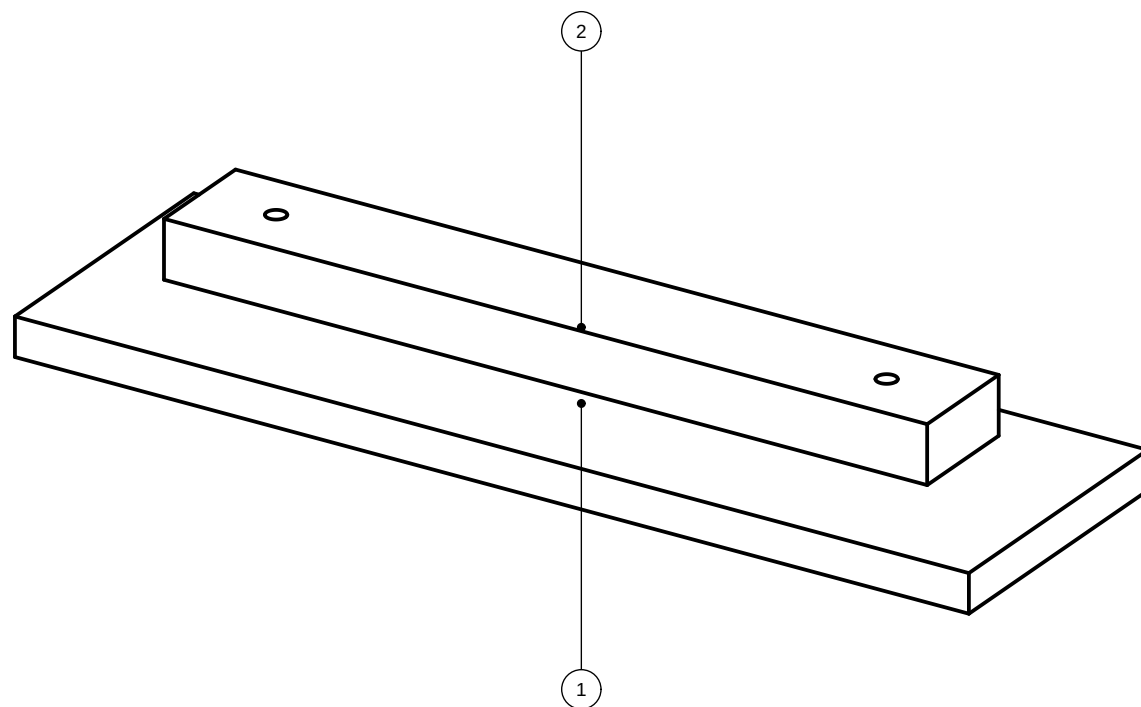


RIGHT SIDE



ISOMETRIC

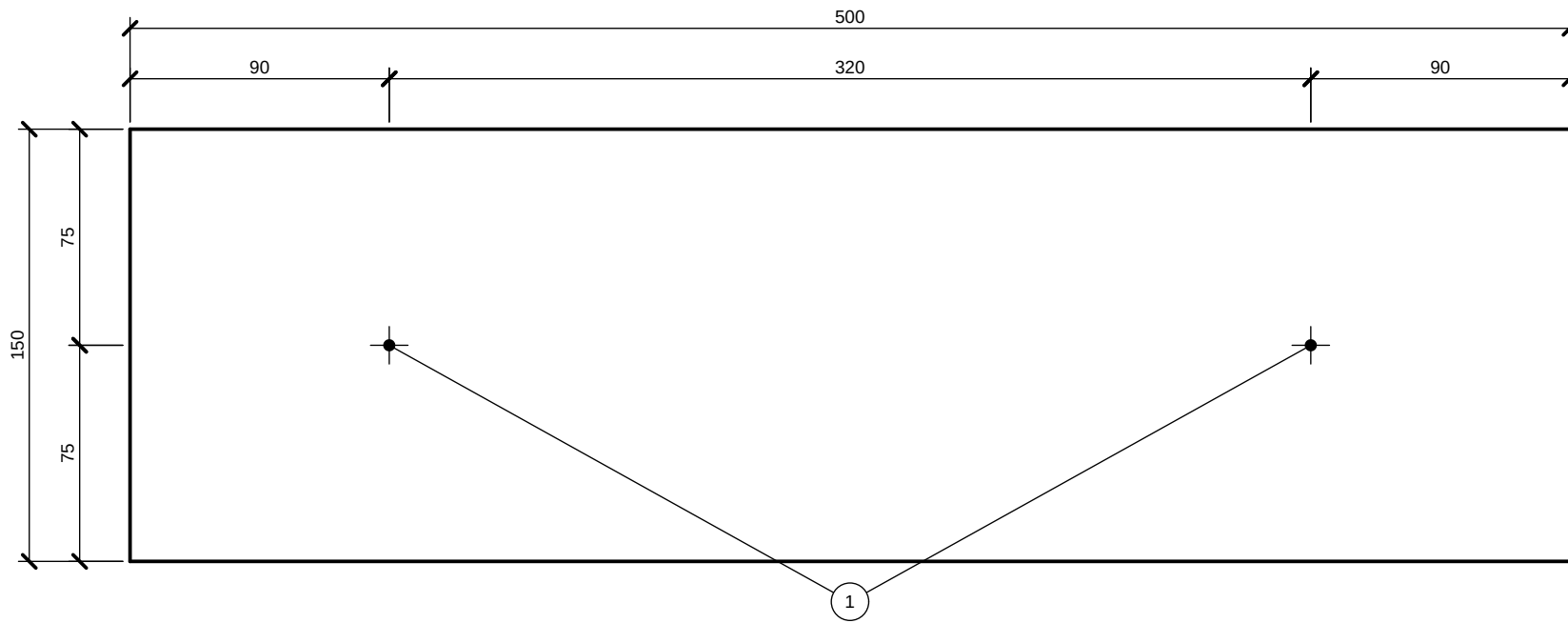
assembly	plugged_screws
parts	2
overall	500 x 150 x 50 (W x D x H)
material	oak
scale	1:4, mm



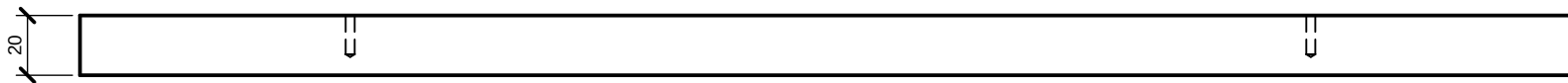
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	board	1	500 x 150 x 20	oak
2	batten	1	400 x 60 x 30	oak

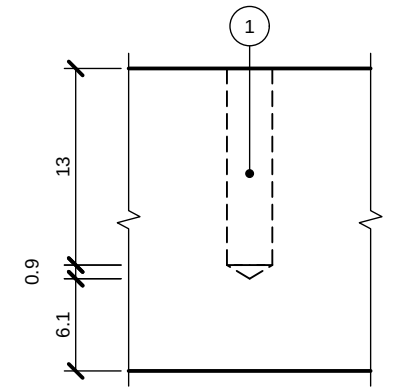
assembly	plugged_screws
parts	2
overall	500 x 150 x 50 (W x D x H)
material	oak
scale	not to scale, mm



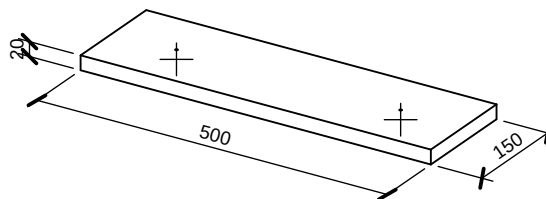
TOP FACE



FRONT EDGE



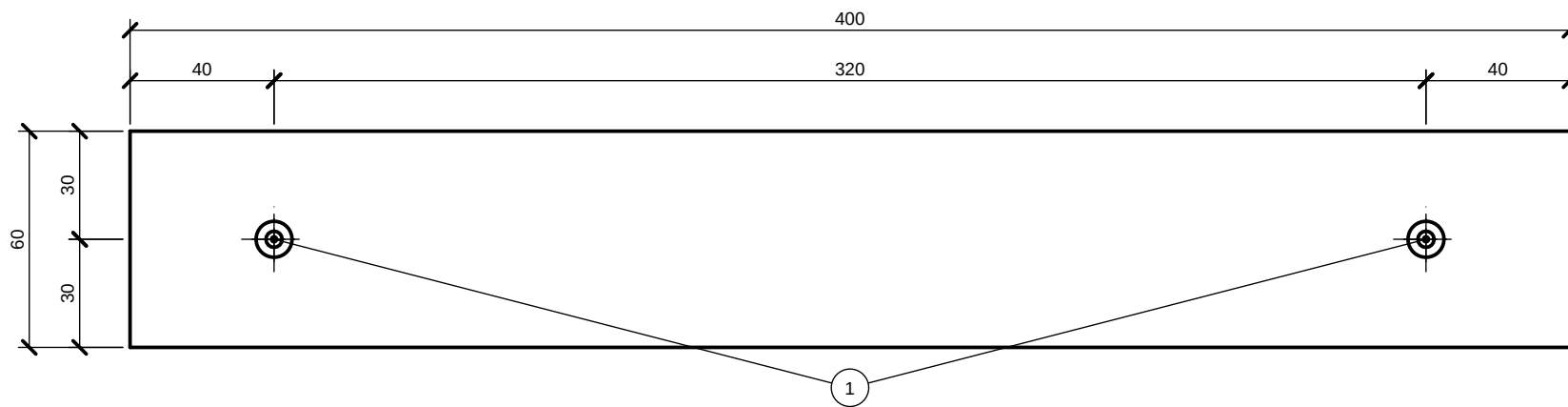
FRONT EDGE: 1 2:1



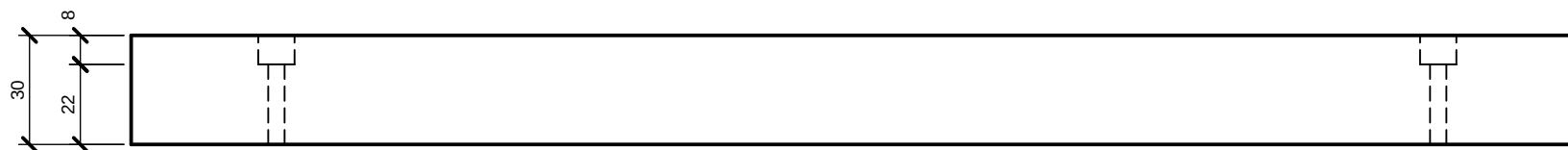
ISOMETRIC

1 2 x pilot hole $\varnothing 3$, 13 deep, drill point 118 deg, in top_face, for a 4 x 35 screw

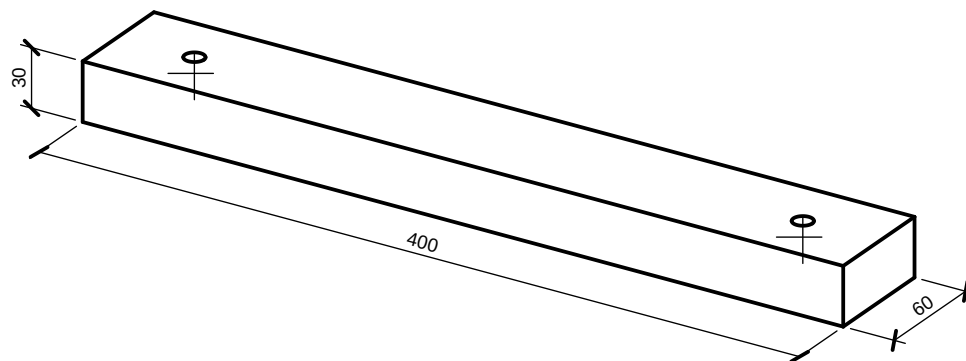
part	board
of	plugged_screws
make	1
cut size	500 x 150 x 20
material	oak
scale	1:2.5, mm



TOP FACE



FRONT EDGE



ISOMETRIC

1 2 x clearance hole $\varnothing 4.5$, counterbored $\varnothing 10$, 8 deep, in top_face, for a 4 x 35 screw

part	batten
of	plugged_screws
make	1
cut size	400 x 60 x 30
material	oak
scale	1:2, mm

Cut list

board 500 x 150 x 20 mm oak
- 2 x pilot hole $\varnothing 3$, 13 deep, drill point 118 deg, in top_face, 90 and 410 from left_end; centered, for a 4 x 35 screw
batten 400 x 60 x 30 mm oak
- 2 x clearance hole $\varnothing 4.5$, counterbored $\varnothing 10$, 8 deep, in top_face, 40 from left_end and right_end; centered, for a 4 x 35 screw

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.plugged_screws
```

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

```
def plugged_screws(screw_length: float = 35) -> Assembly:
    """A thick batten screwed to a board, the screws' heads sunk in
    counterbores 8 mm deep, to be closed by plugs."""
    asm = Assembly("plugged_screws")
    board = asm.add(Board("board", OAK, length=500, width=150))
    batten = asm.add(Board("batten", THICK_OAK, length=400, width=60))
    asm.join(Butt(board.top_face, batten.bottom_face, across=CENTERED))
    for end in (batten.left_end, batten.right_end):
        asm.join(
            Screw(
                batten.top_face,
                into=board,
                length=screw_length,
                at={end: 40},
                head_diameter=10,
                counterbore_depth=8,
            )
        )
    return asm
```