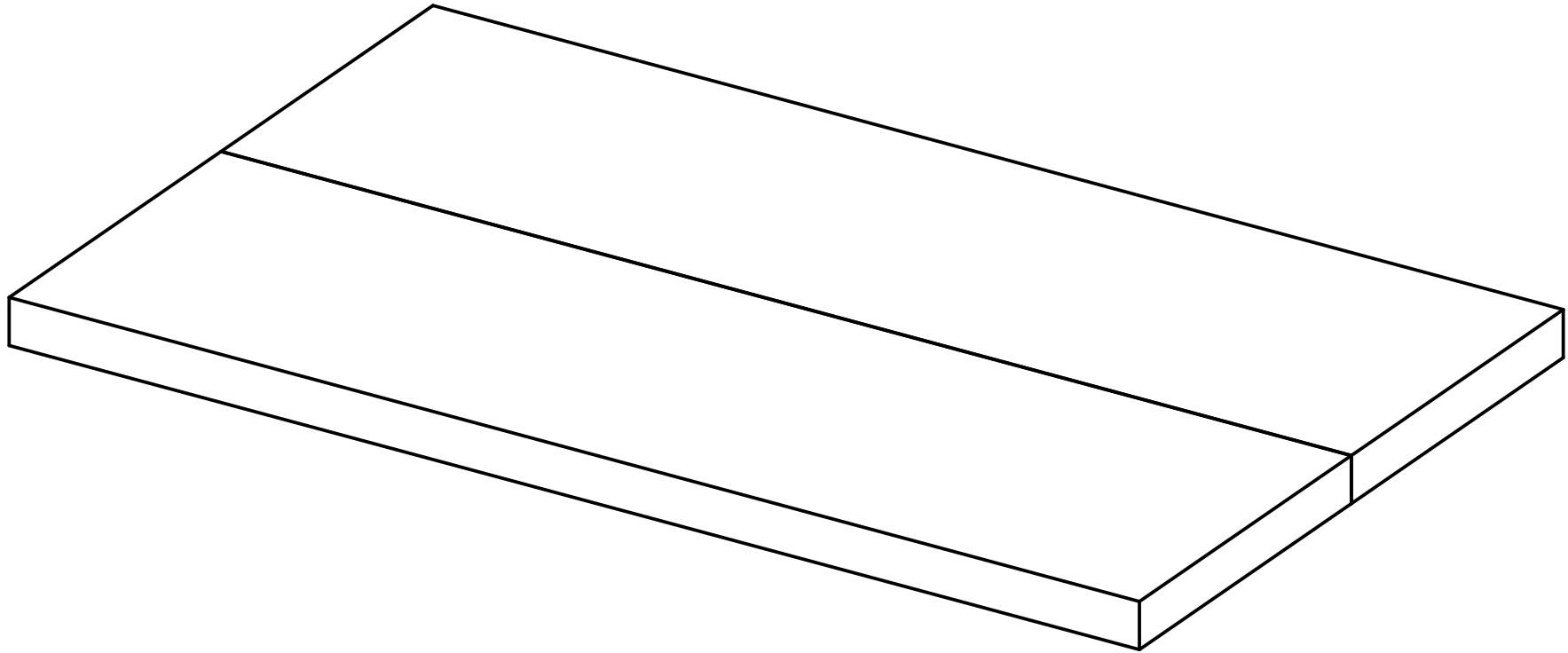


Dowelled edge joint



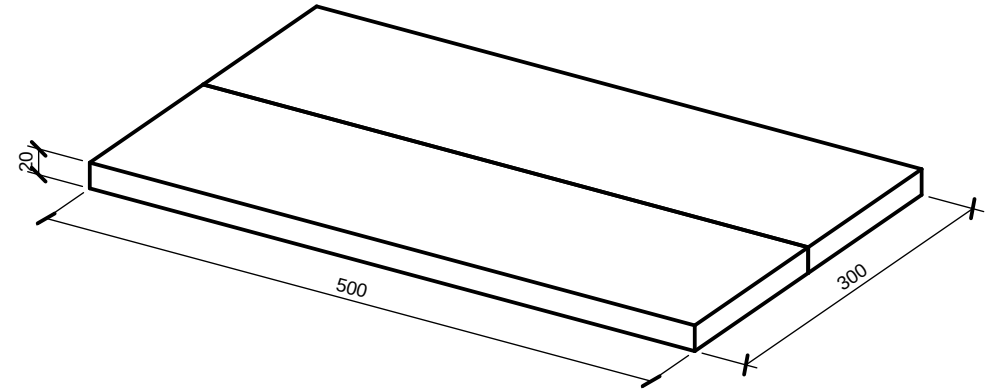
parts	5 (2 different)
overall	500 x 300 x 20 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

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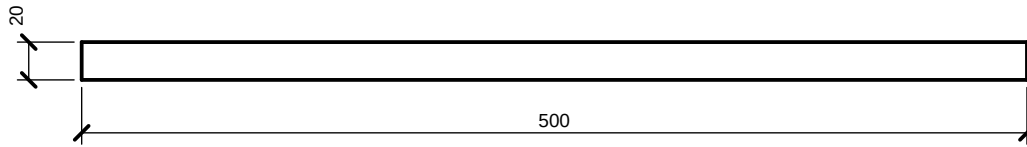
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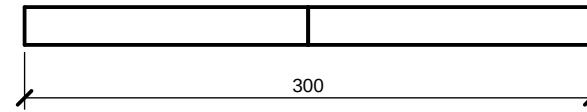
TOP



ISOMETRIC

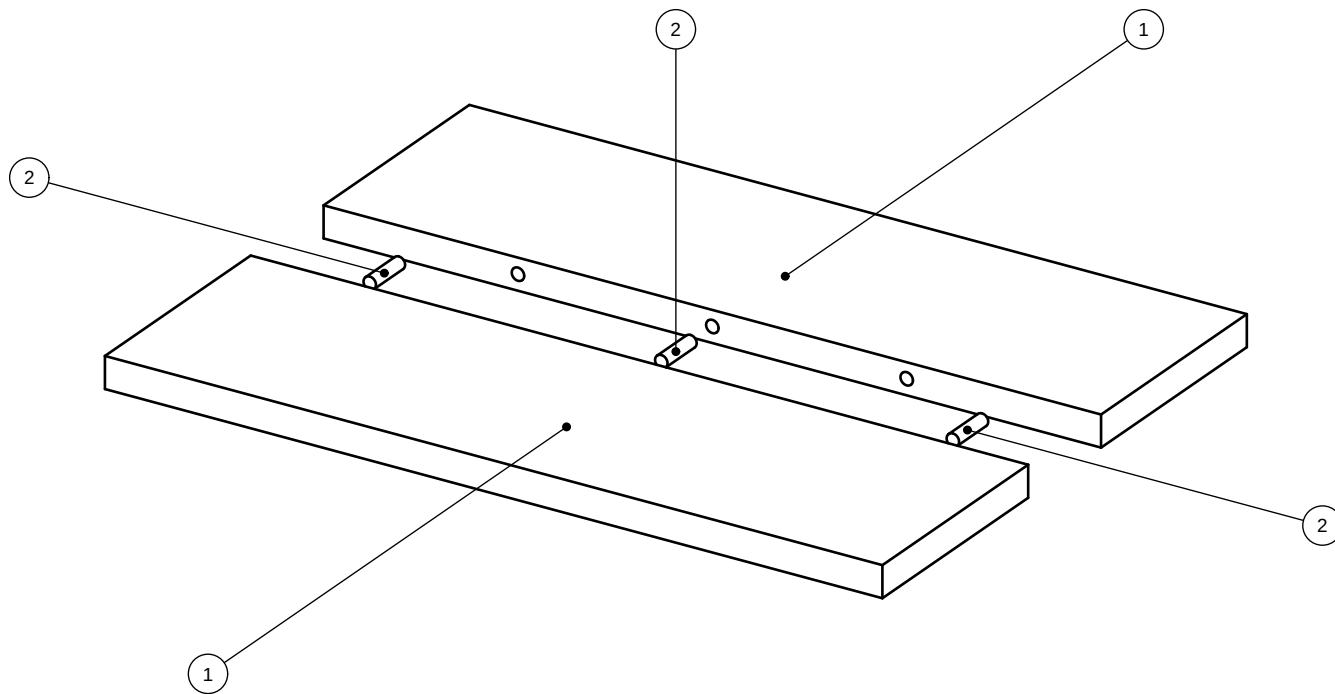


FRONT



RIGHT SIDE

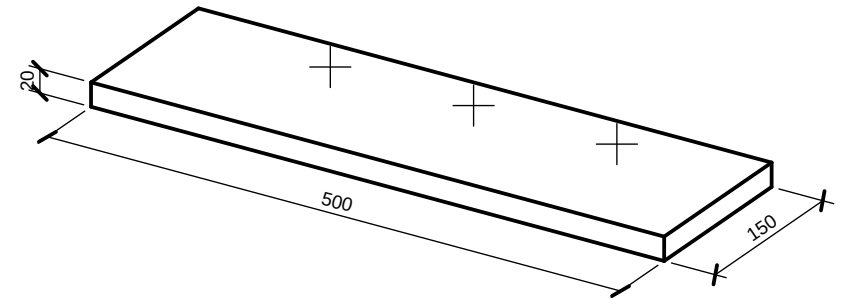
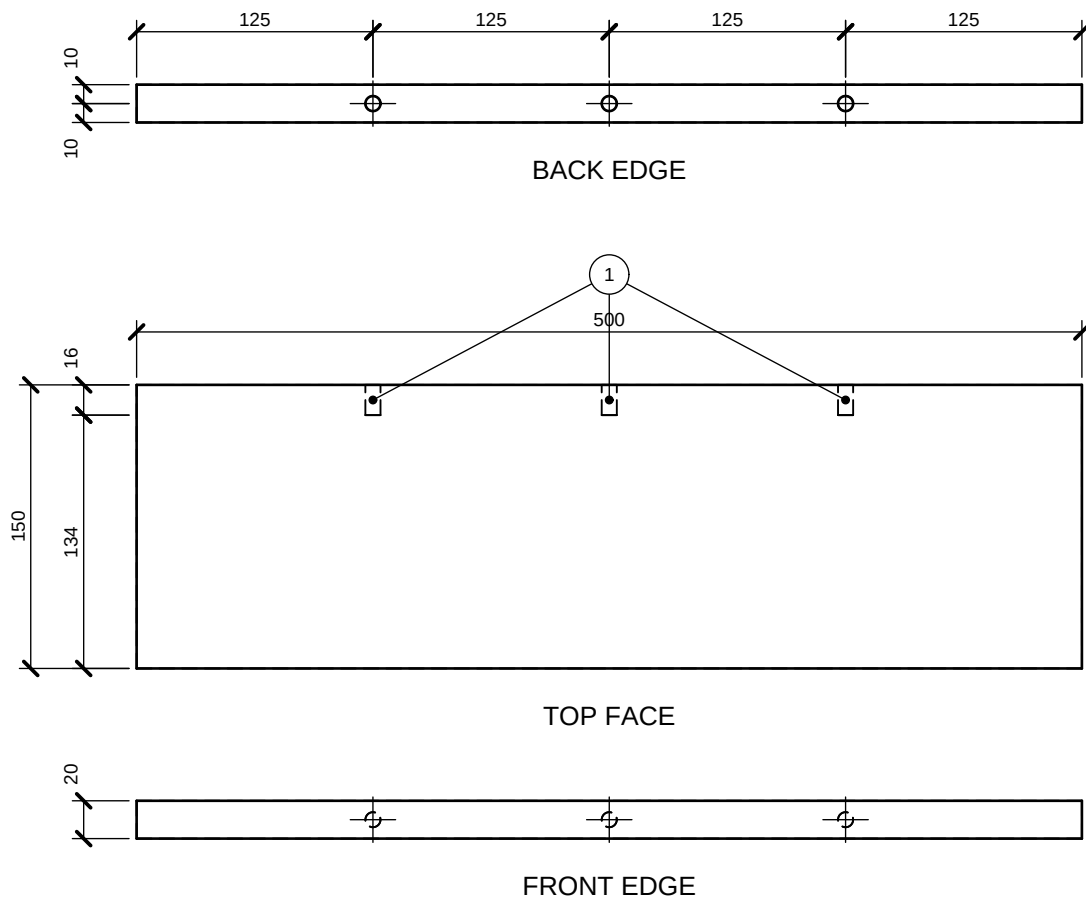
assembly	dowelled_edge_joint
parts	5 (2 different)
overall	500 x 300 x 20 (W x D x H)
material	oak
scale	1:4, mm



EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	a_b	2	500 x 150 x 20	oak
2	dowel	3	ø8 x 30	oak

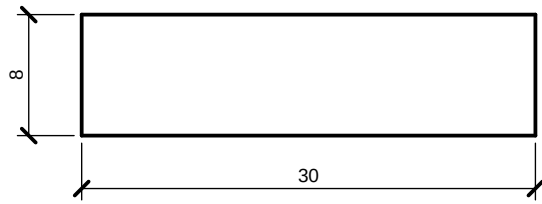
assembly	dowelled_edge_joint
parts	5 (2 different)
overall	500 x 300 x 20 (W x D x H)
material	oak
scale	not to scale, mm



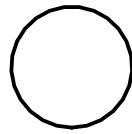
ISOMETRIC

2 pieces: a, b
 1 3 x dowel hole $\varnothing 8$, 16 deep, in back_edge

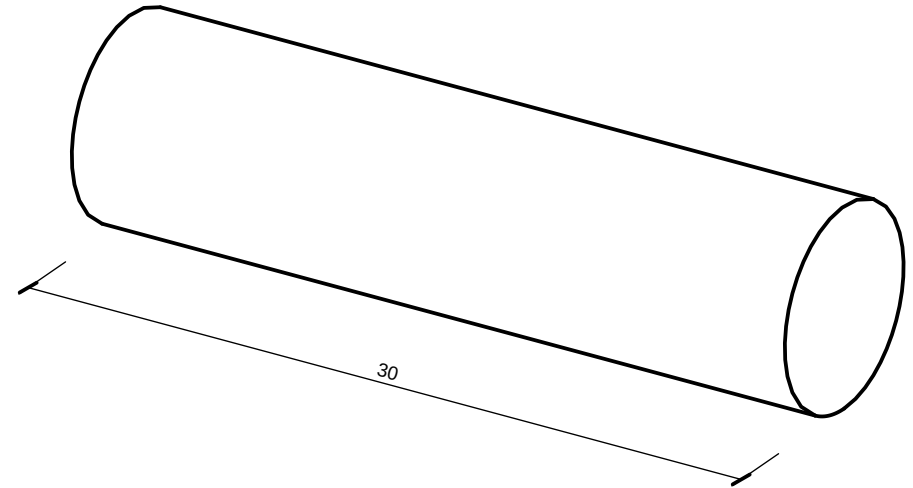
part	a_b
of	dowelled_edge_joint
make	2
cut size	500 x 150 x 20
material	oak
scale	1:4, mm



SIDE



RIGHT END



ISOMETRIC

3 pieces: dowel_1, dowel_2, dowel_3

part	dowel
of	dowelled_edge_joint
make	3
cut size	ø8 x 30
material	oak
scale	2:1, mm

Cut list

a_b 500 x 150 x 20 mm oak, 2 pieces: a, b
- 3 x dowel hole ø8, 16 deep, in back_edge, 125 and 375 from left_end, centered; centered
dowel ø8 x 30 mm oak, 3 pieces: dowel_1, dowel_2, dowel_3

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.dowelled_edge_joint
```

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

```
def dowelled_edge_joint(length: float = 500, width: float = 150, stock: Stock = OAK) -> Assembly:
    """Two boards glued edge to edge, aligned by three dowels, 15 mm into each."""
    asm = Assembly("dowelled_edge_joint")
    a = asm.add(Board("a", stock, length=length, width=width))
    b = asm.add(Board("b", stock, length=length, width=width))
    asm.join(Dowels(a.back_edge, b.front_edge, _dowels(asm, "dowel", 3, 30)))
    return asm
```