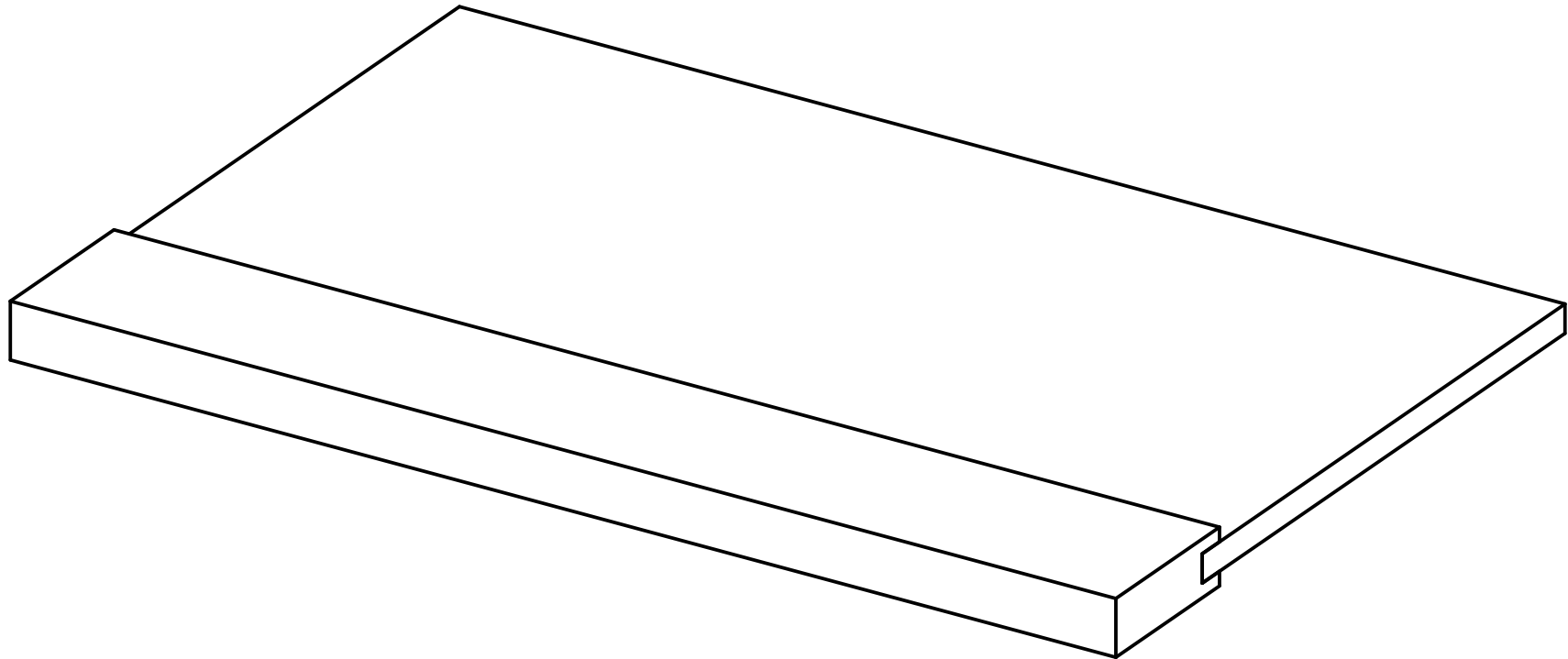


Panel in groove



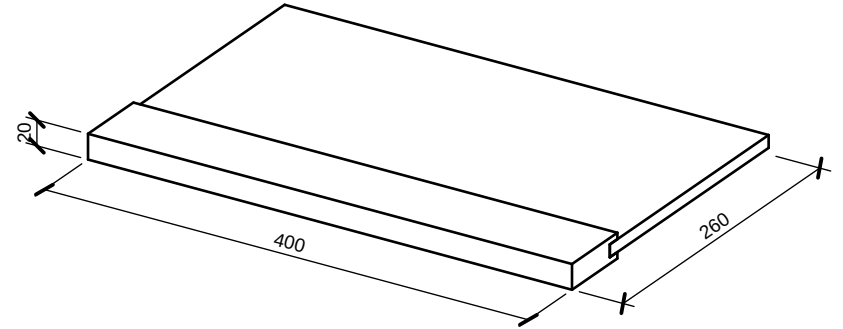
parts	2
overall	400 x 260 x 20 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

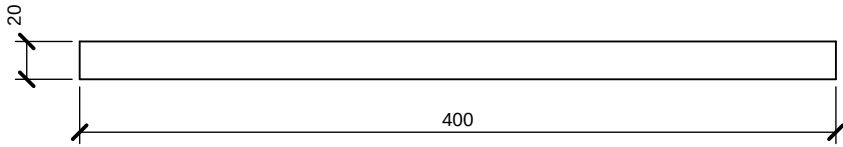
Drawings	3
Assembly	3
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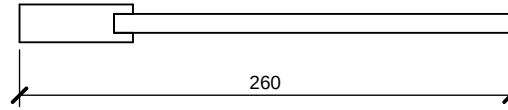
TOP



ISOMETRIC

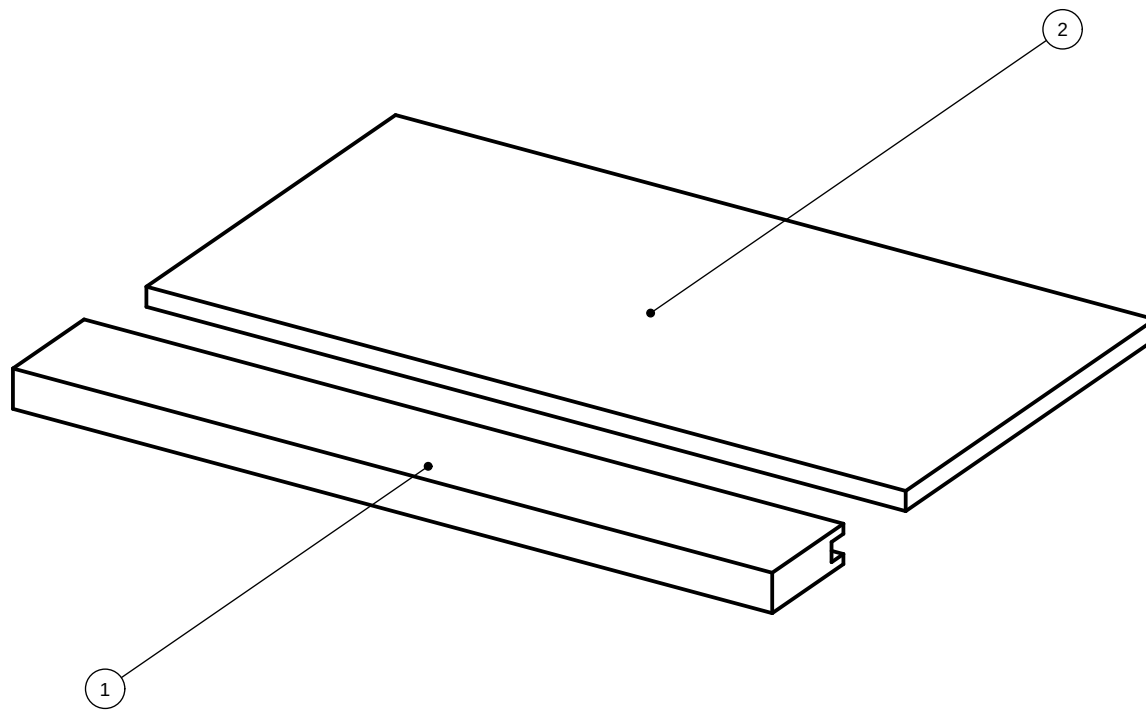


FRONT



RIGHT SIDE

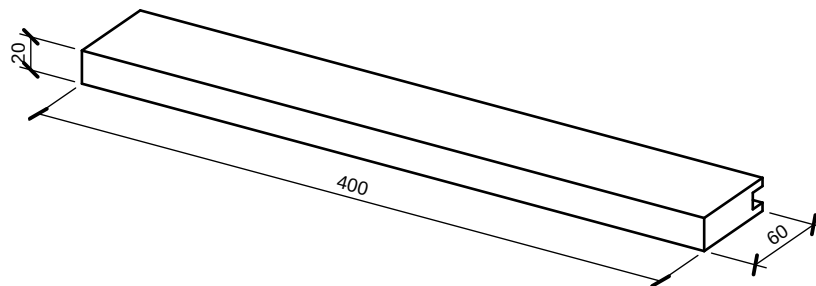
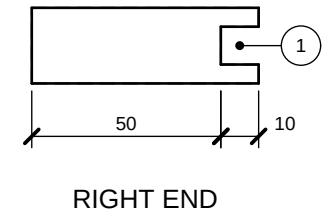
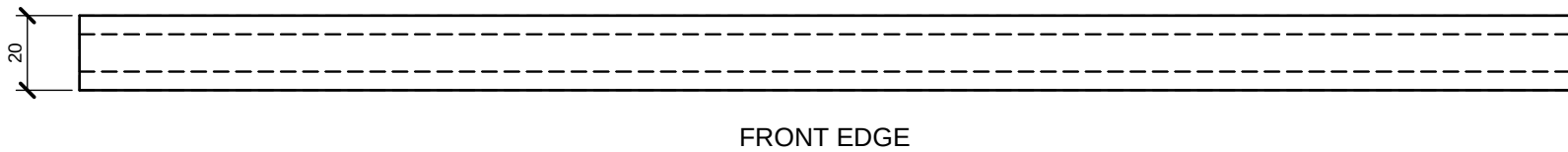
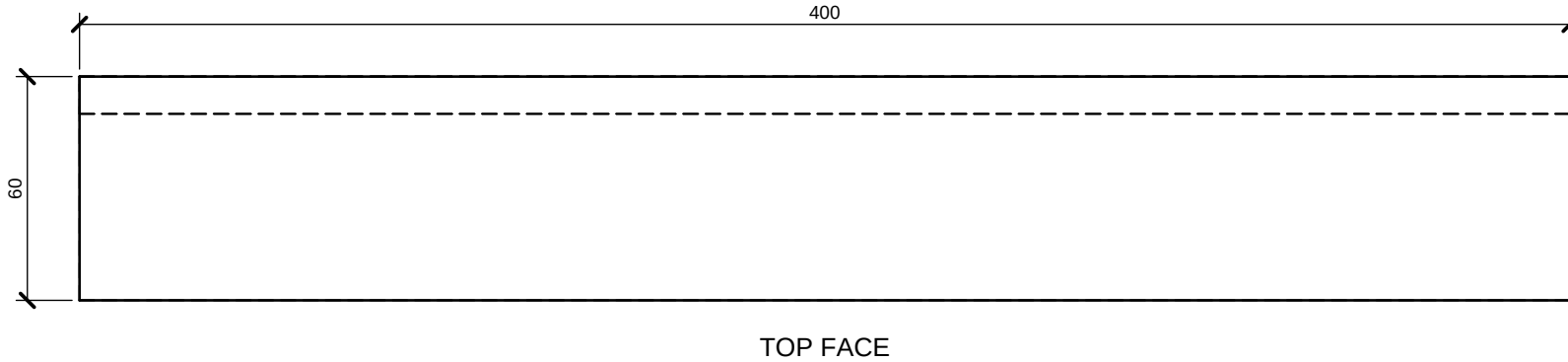
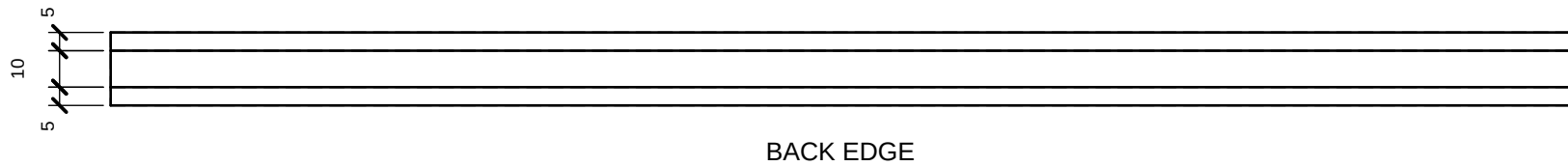
assembly	panel_in_groove
parts	2
overall	400 x 260 x 20 (W x D x H)
material	oak
scale	1:4, mm



EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	rail	1	400 x 60 x 20	oak
2	panel	1	400 x 210 x 10	oak

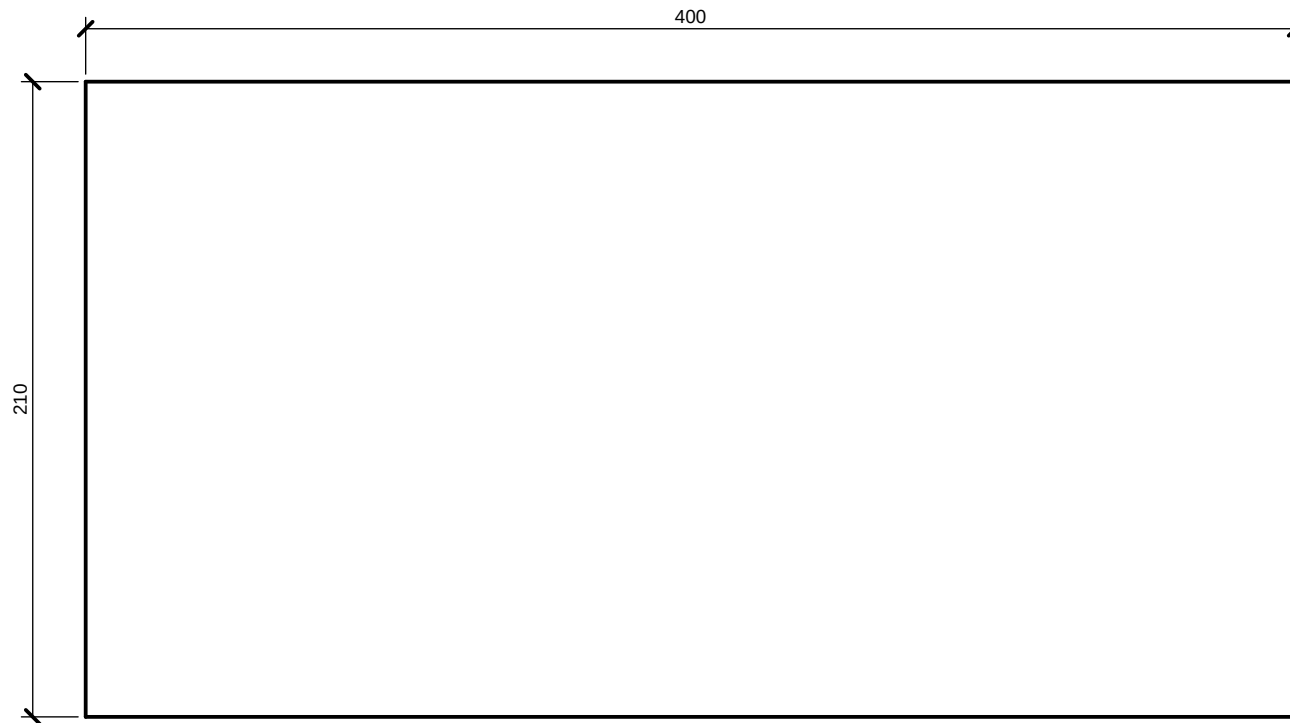
assembly	panel_in_groove
parts	2
overall	400 x 260 x 20 (W x D x H)
material	oak
scale	not to scale, mm



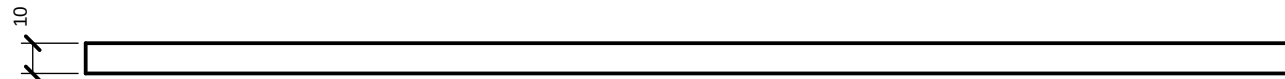
ISOMETRIC

1 groove 10 mm, 10 deep, in back_edge

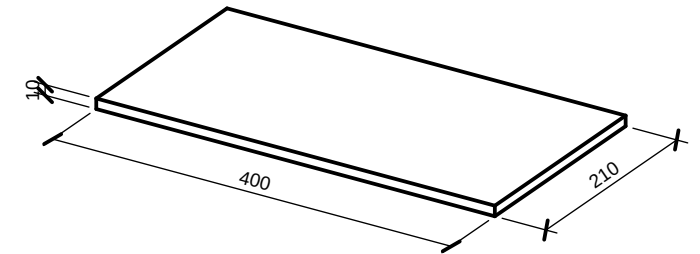
part	rail
of	panel_in_groove
make	1
cut size	400 x 60 x 20
material	oak
scale	1:2, mm



TOP FACE



FRONT EDGE



ISOMETRIC

part	panel
of	panel_in_groove
make	1
cut size	400 x 210 x 10
material	oak
scale	1:2.5, mm

Cut list

rail 400 x 60 x 20 mm oak
- groove 10 mm, 10 deep, in back_edge
panel 400 x 210 x 10 mm oak

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.panel_in_groove
```

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

```
def panel_in_groove(
    length: float = 400,
    rail_width: float = 60,
    panel_width: float = 200,
    panel_stock: Stock = THIN_OAK,
    stock: Stock = OAK,
) -> Assembly:
    """A thin panel with its edge in a groove along a rail, centered in its thickness."""
    asm = Assembly("panel_in_groove")
    rail = asm.add(Board("rail", stock, length=length, width=rail_width))
    panel = asm.add(Board("panel", panel_stock, length=length, width=panel_width))
    asm.join(GrooveJoint(groove=rail.back_edge, edge=panel.front_edge))
    return asm
```