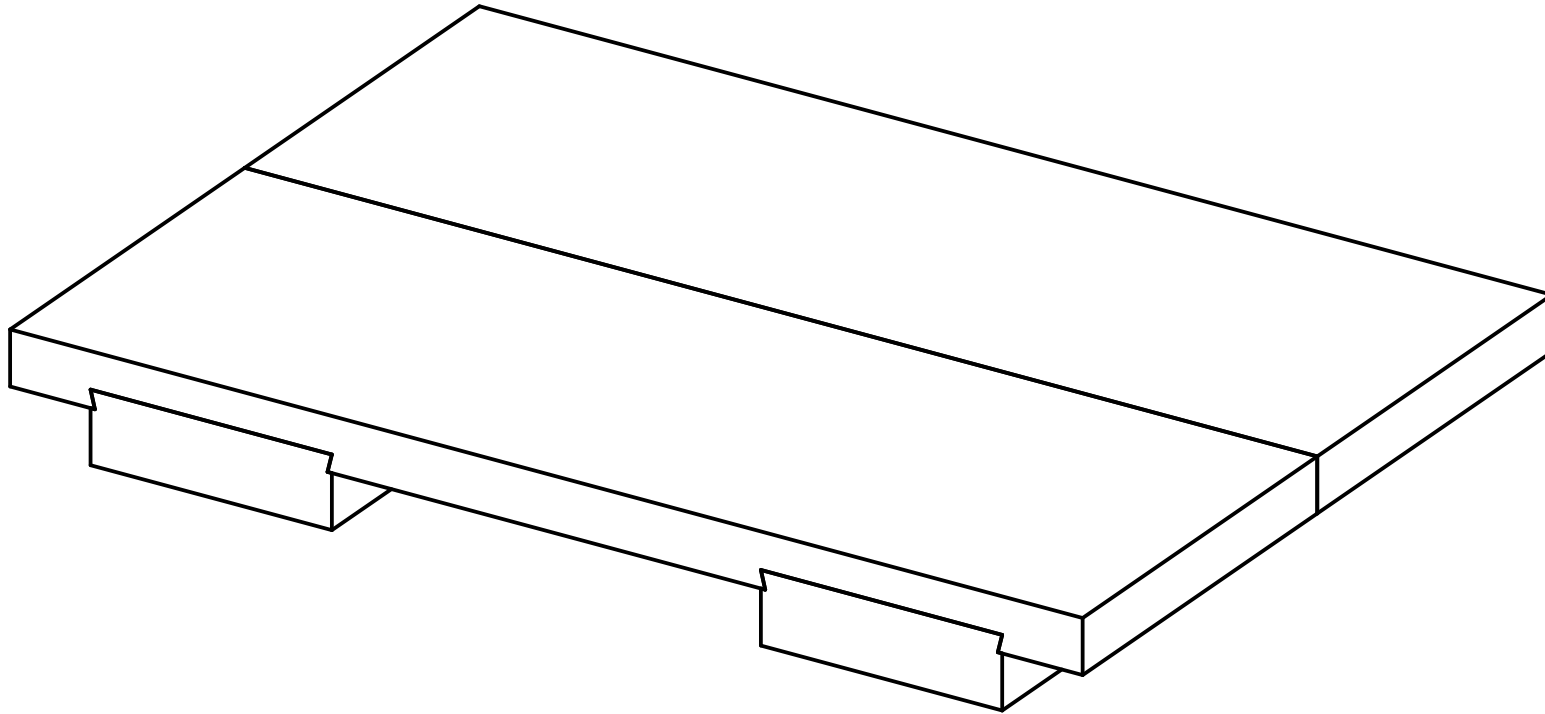


Stepstool seat



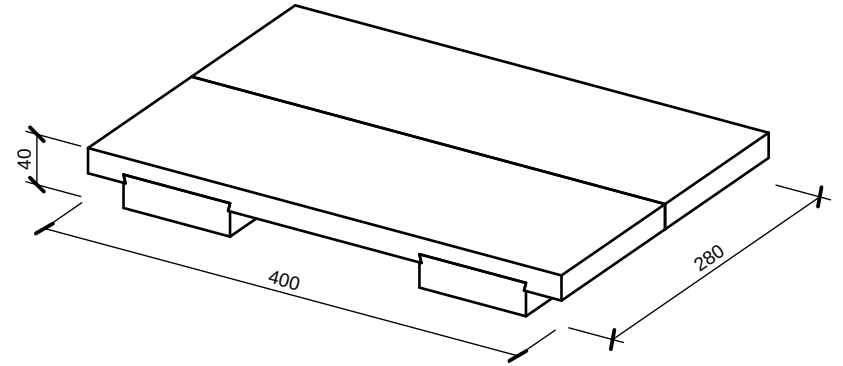
parts	4 (2 different)
overall	400 x 280 x 40 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

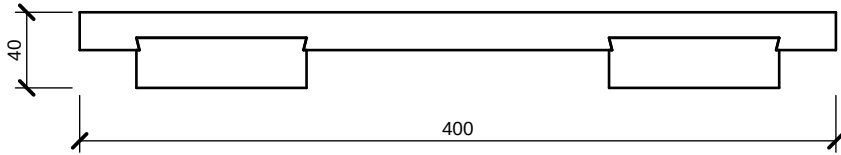
Drawings	3
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1 seat	5
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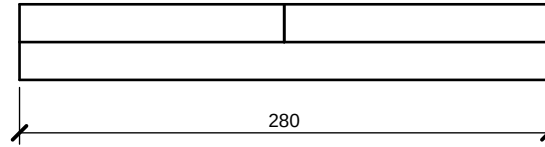
TOP



ISOMETRIC

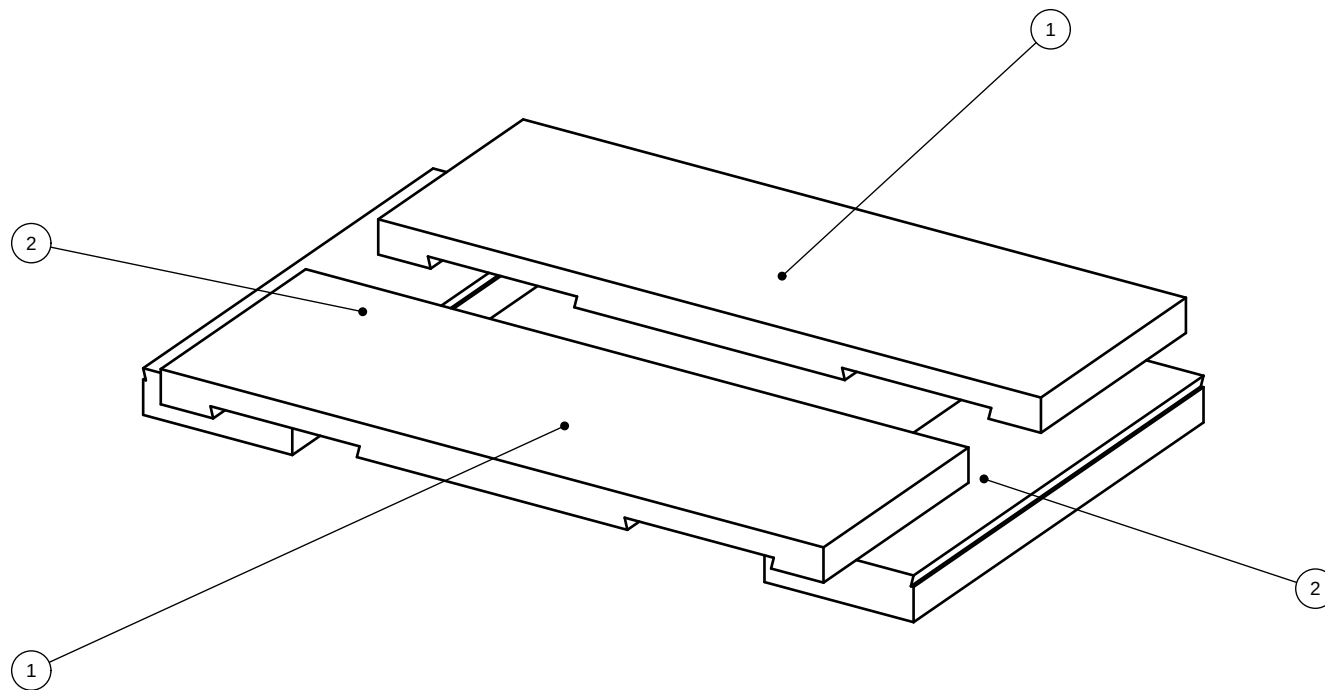


FRONT



RIGHT SIDE

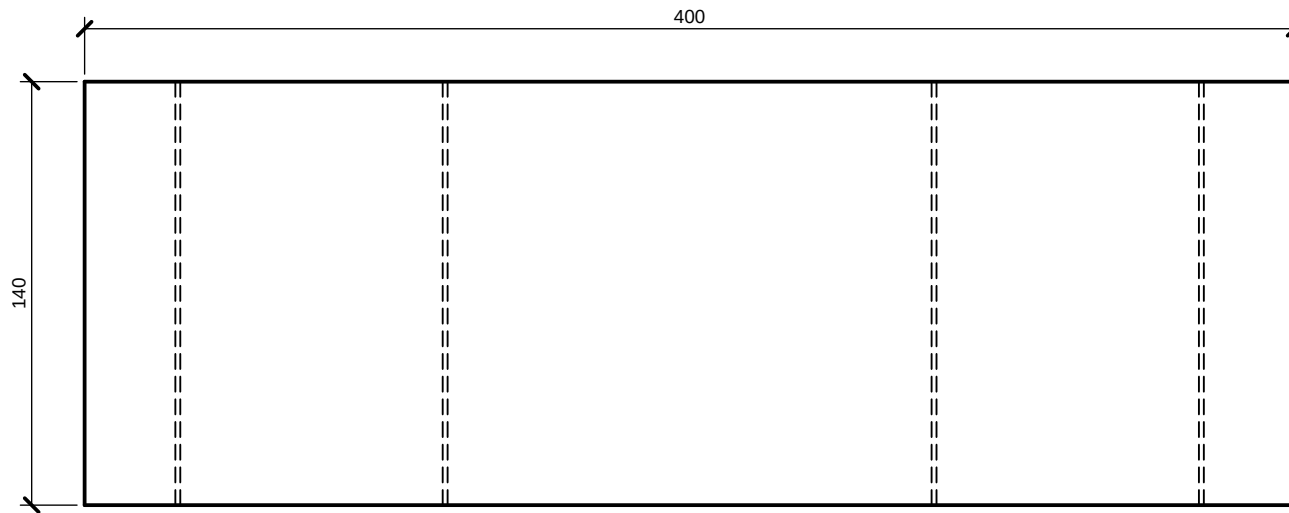
assembly	stepstool_seat
parts	4 (2 different)
overall	400 x 280 x 40 (W x D x H)
material	oak
scale	1:4, mm



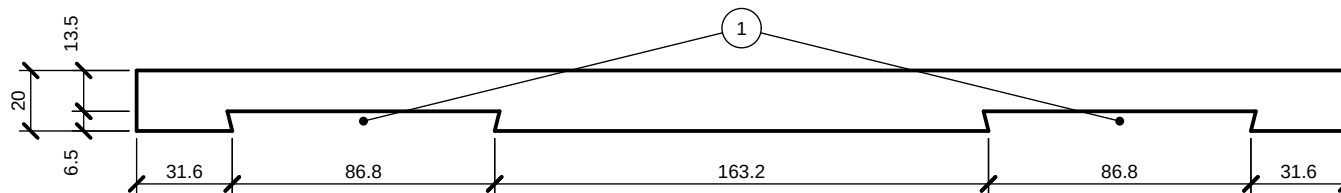
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	seat	2	400 x 140 x 20	oak
2	batten	2	280 x 90 x 26.5	oak

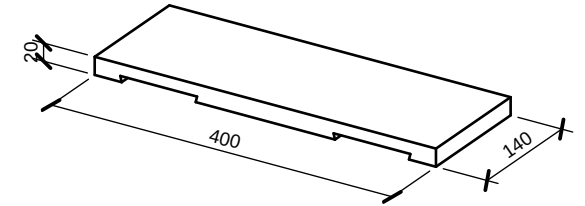
assembly	stepstool_seat
parts	4 (2 different)
overall	400 x 280 x 40 (W x D x H)
material	oak
scale	not to scale, mm



TOP FACE



FRONT EDGE

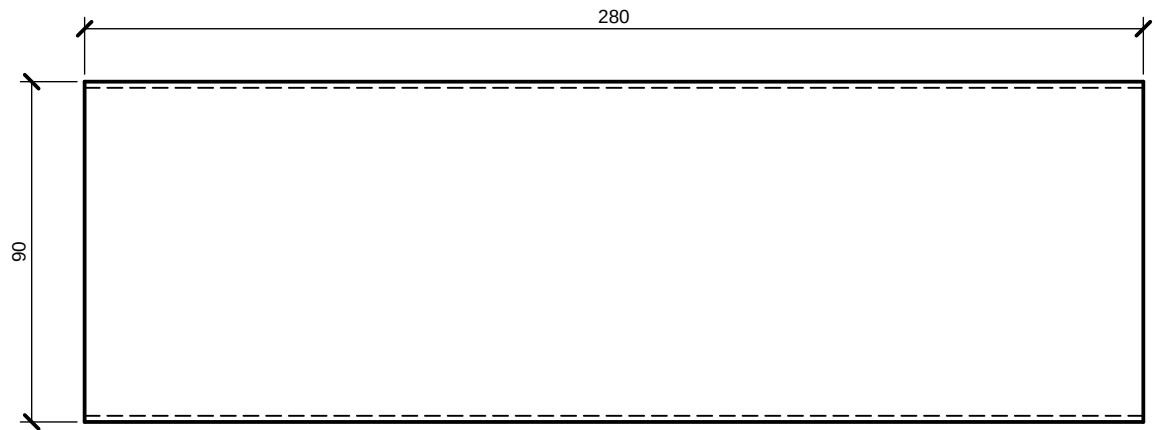


ISOMETRIC

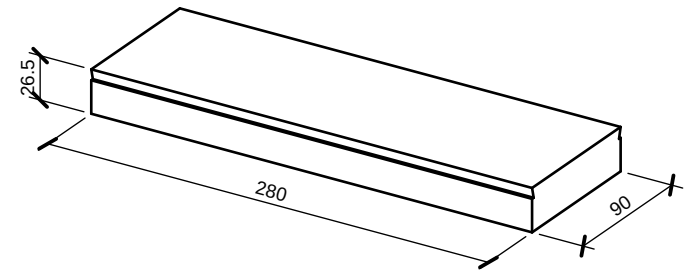
2 pieces: seat_1, seat_2

1 2 x dovetail socket 86.75 mm at the face, 6.5 deep, 1:4, in bottom_face

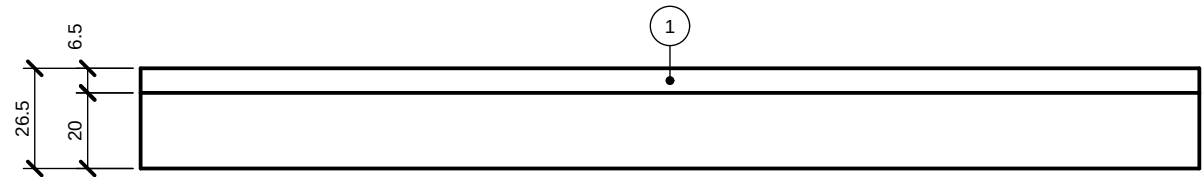
part	seat
of	stepstool_seat
make	2
cut size	400 x 140 x 20
material	oak
scale	1:2.5, mm



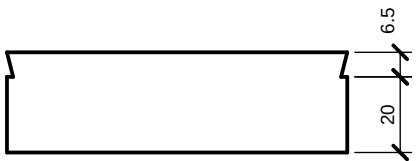
TOP FACE



ISOMETRIC



FRONT EDGE



RIGHT END

2 pieces: batten_left, batten_right
1 dovetail tongue 86.75 mm wide at the shoulder, 6.5 deep, 1:4, on top_face

part	batten
of	stepstool_seat
make	2
cut size	280 x 90 x 26.5
material	oak
scale	1:2, mm

Cut list

seat 400 x 140 x 20 mm oak, 2 pieces: seat_1, seat_2
 - 2 x dovetail socket 86.75 mm at the face, 6.5 deep, 1:4, in bottom_face
batten 280 x 90 x 26.5 mm oak, 2 pieces: batten_left, batten_right
 - dovetail tongue 86.75 mm wide at the shoulder, 6.5 deep, 1:4, on top_face

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 projects.stepstool_seat
```

projects.stepstool_seat, in woodwright/examples/projects.py

```
def stepstool_seat(
    length: float = 400,
    depth: float = 280,
    boards: int = 2,
    batten_width: float = 90,
    batten_inset: float = 30,
    slope: float = 4,
    stock: Stock = OAK,
) -> Assembly:
    """The seat of a stepstool: boards edge to edge, two battens underneath
    across the grain, in wide, shallow sliding dovetail housings.

    The battens lie flat, `batten_inset` in from the ends, and keep the seat
    flat and its boards together, even without glue; not glued, they let it
    shrink and swell across its grain. Each batten's whole width goes into a
    housing a third of the seat deep, its edges bevelled by 1:`slope`, and
    runs across all the boards, housed in each of them. The housings run
    through, out of the front and the back edges, where the battens' ends
    are flush with the seat's. The battens are wide enough for the legs'
    through tenons (see `stepstool`), which cross their grain.
    """
    asm = Assembly("stepstool_seat")
    _stepstool_seat(asm, length, depth, boards, batten_width, batten_inset, slope, stock)
    return asm
```