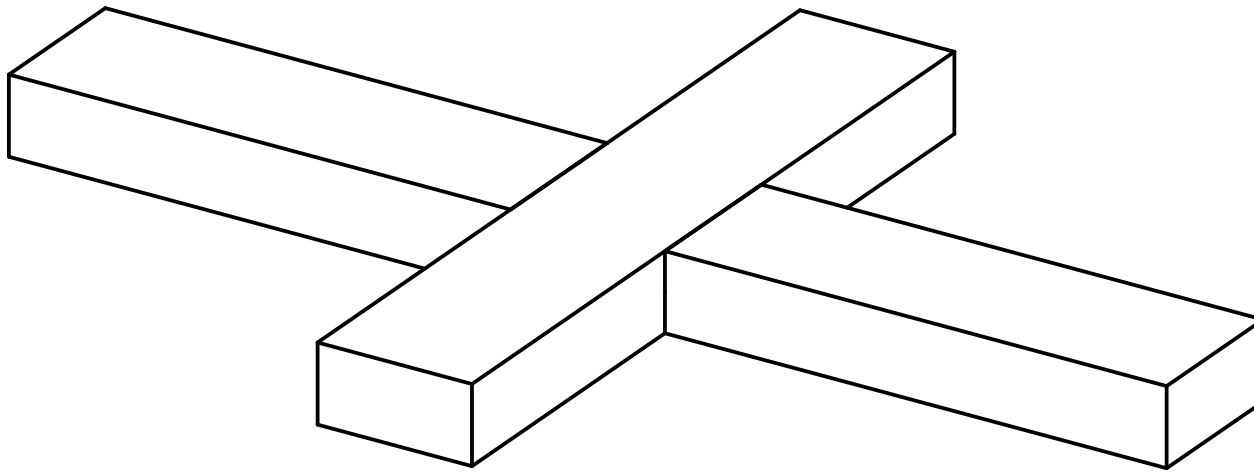


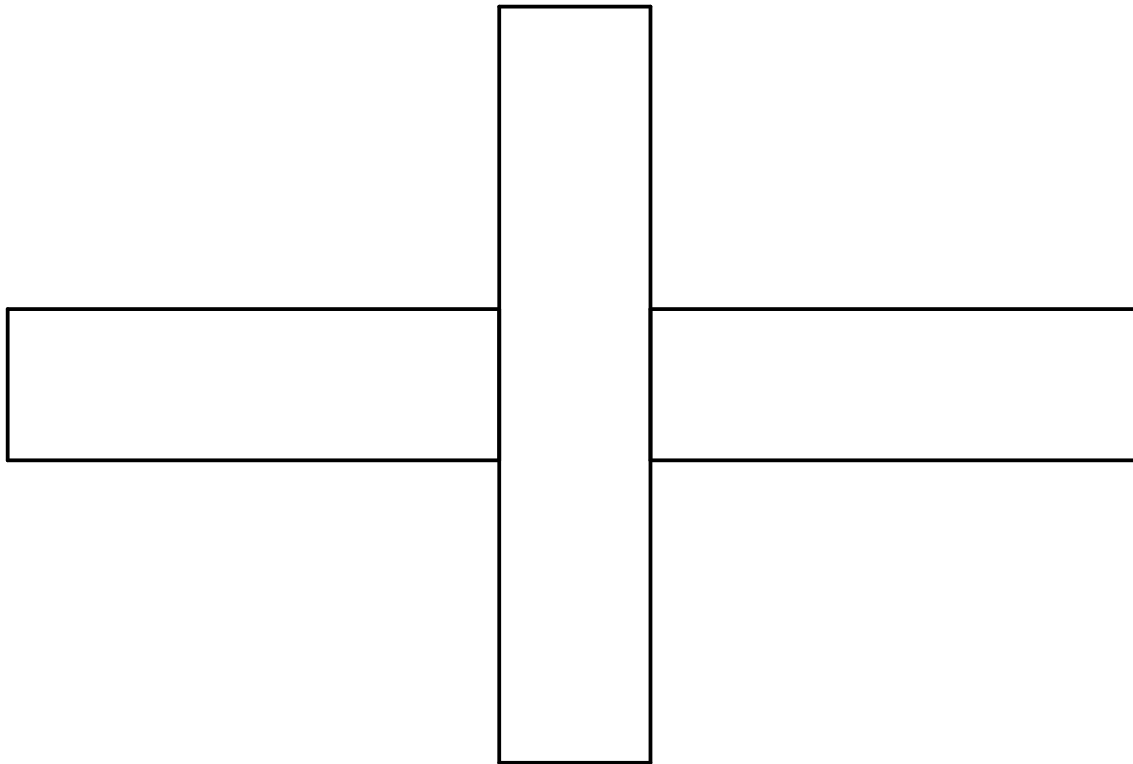
Cross lap



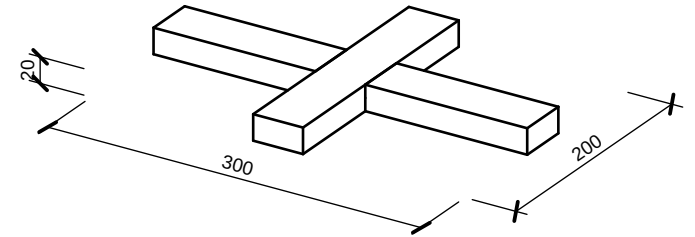
parts	2
overall	300 x 200 x 20 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

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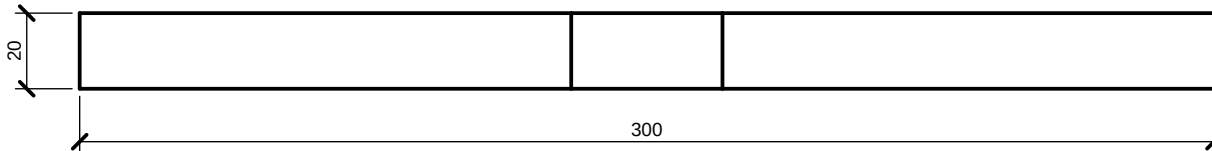
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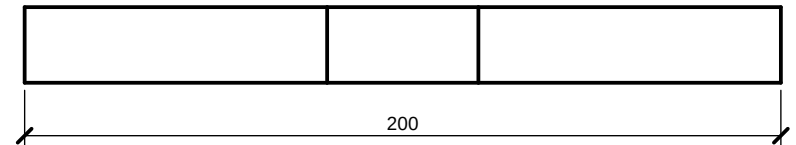
TOP



ISOMETRIC

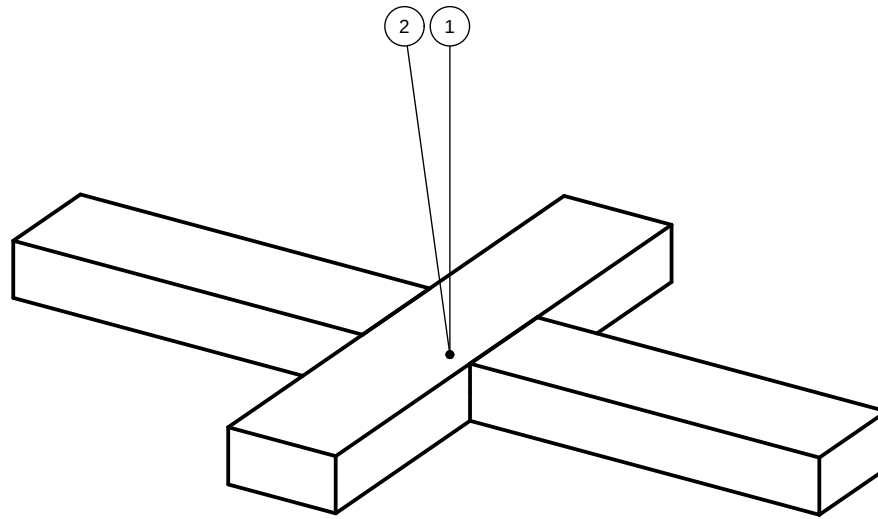


FRONT



RIGHT SIDE

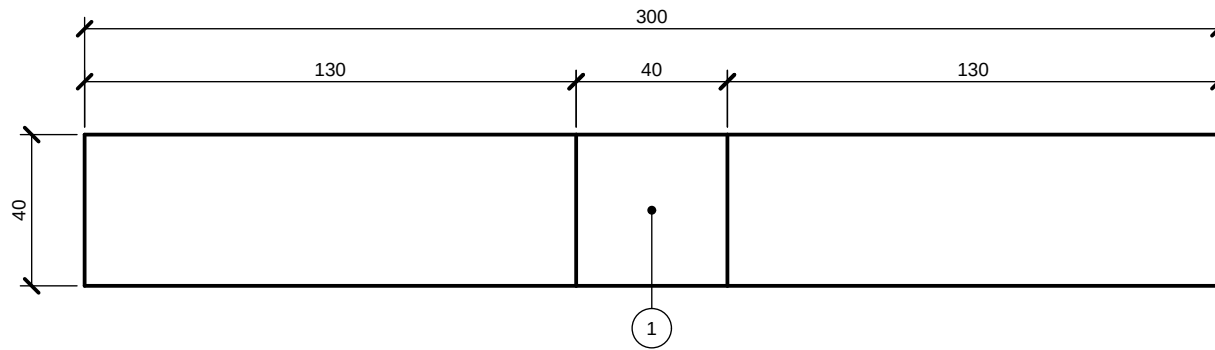
assembly	cross_lap
parts	2
overall	300 x 200 x 20 (W x D x H)
material	oak
scale	1:2, mm



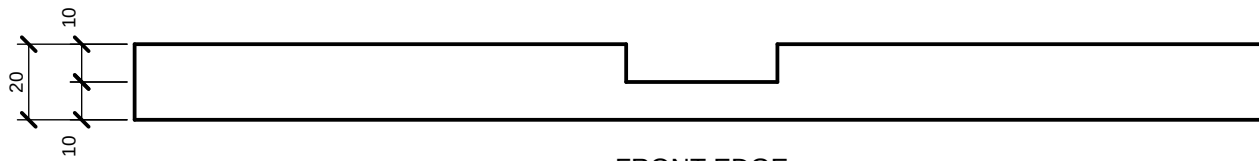
EXPLODED

no.	part	qty	cut size (L x W x T)	material
1	a	1	300 x 40 x 20	oak
2	b	1	200 x 40 x 20	oak

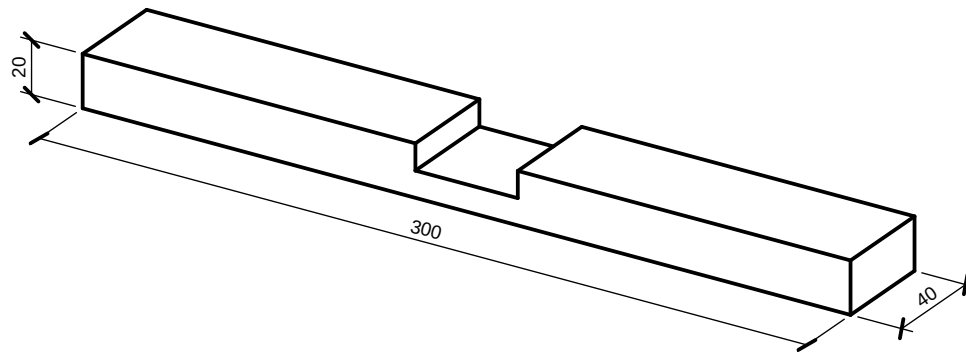
assembly	cross_lap
parts	2
overall	300 x 200 x 20 (W x D x H)
material	oak
scale	not to scale, mm



TOP FACE



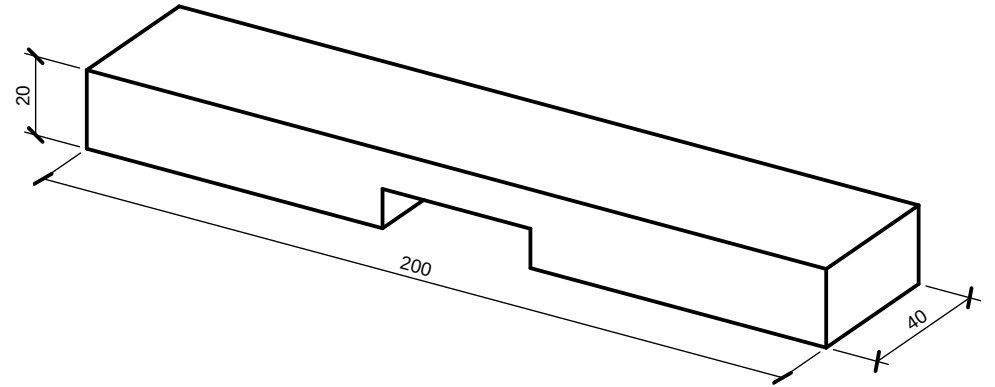
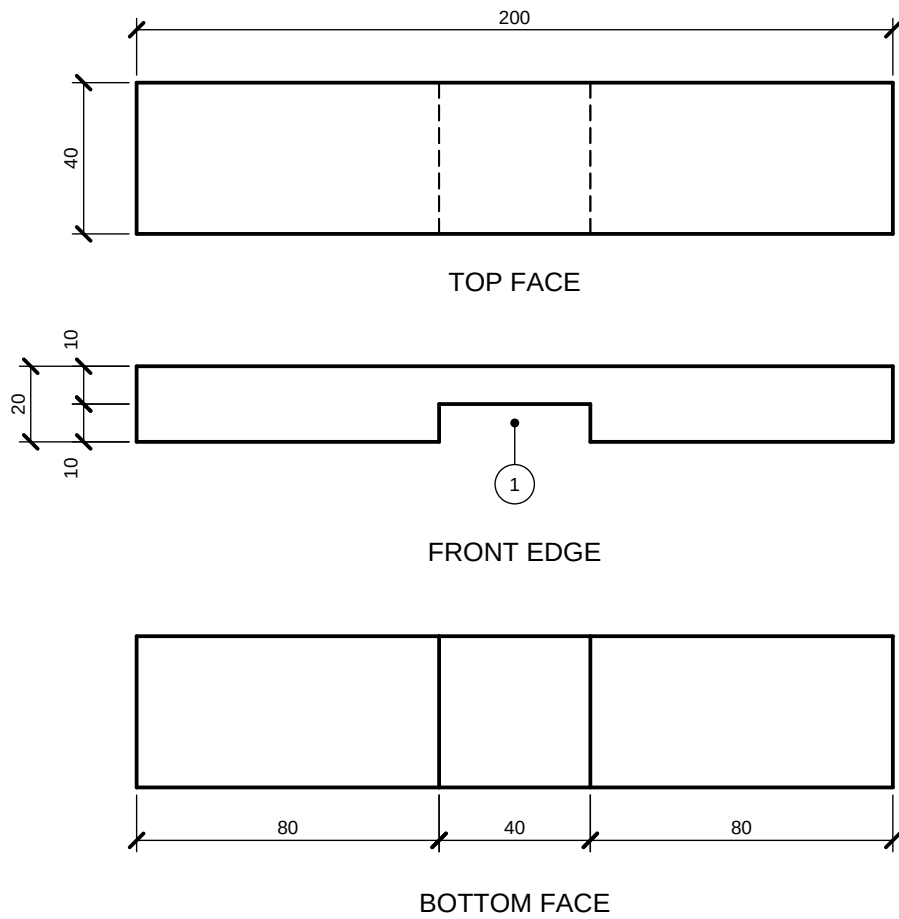
FRONT EDGE



ISOMETRIC

1 dado 40 mm, 10 deep, in top_face

part	a
of	cross_lap
make	1
cut size	300 x 40 x 20
material	oak
scale	1:2, mm



ISOMETRIC

1 dado 40 mm, 10 deep, in bottom_face

part	b
of	cross_lap
make	1
cut size	200 x 40 x 20
material	oak
scale	1:2, mm

Cut list

- a 300 x 40 x 20 mm oak
 - dado 40 mm, 10 deep, in top_face
- b 200 x 40 x 20 mm oak
 - dado 40 mm, 10 deep, in bottom_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 joints.cross_lap
```

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

```
def cross_lap(
    length_a: float = 300, length_b: float = 200, width: float = 40, stock: Stock = OAK
) -> Assembly:
    """Two boards crossing in their middles, each with a dado half its thickness deep."""
    asm = Assembly("cross_lap")
    a = asm.add(Board("a", stock, length=length_a, width=width))
    b = asm.add(Board("b", stock, length=length_b, width=width))
    asm.join(CrossLap(a.back_edge, b.left_end))
    return asm
```