

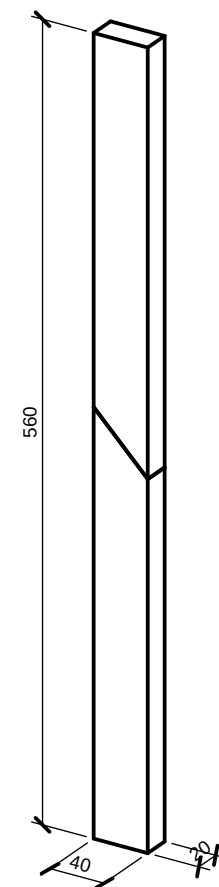
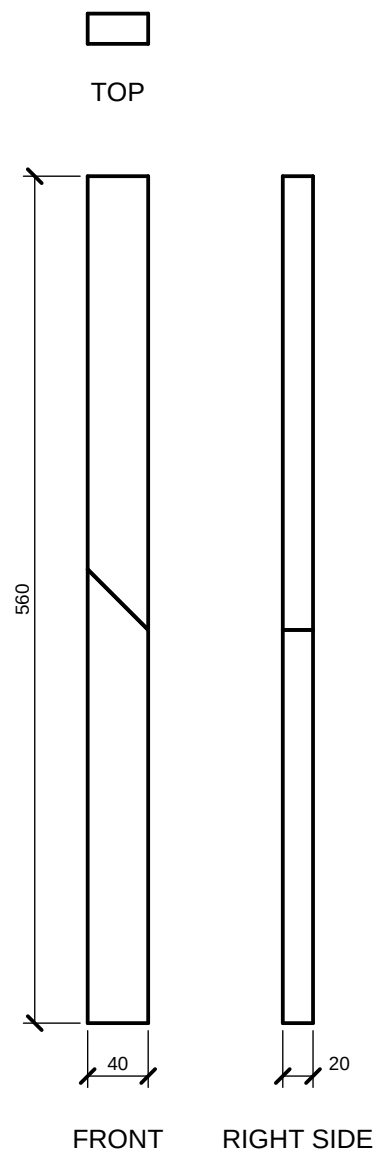
Mitre splice



parts	2 (1 different)
overall	40 x 20 x 560 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

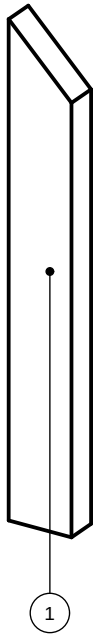
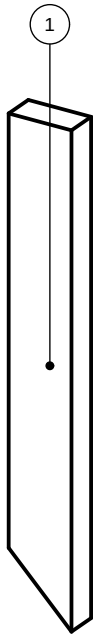
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ISOMETRIC

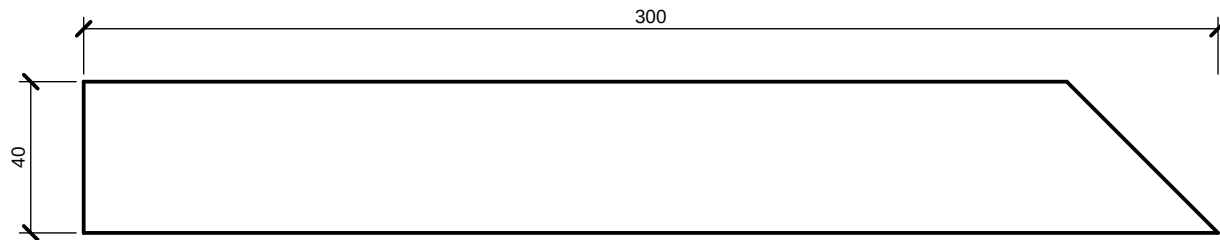
assembly	mitre_splice
parts	2 (1 different)
overall	40 x 20 x 560 (W x D x H)
material	oak
scale	1:5, mm



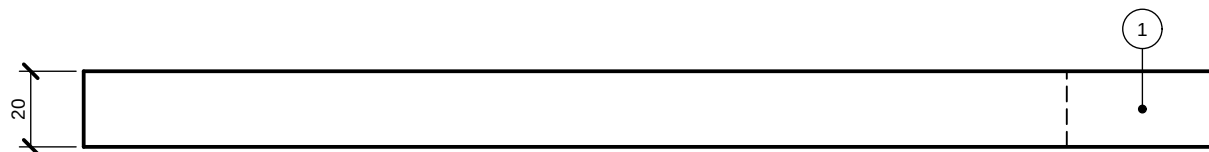
EXPLODED

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

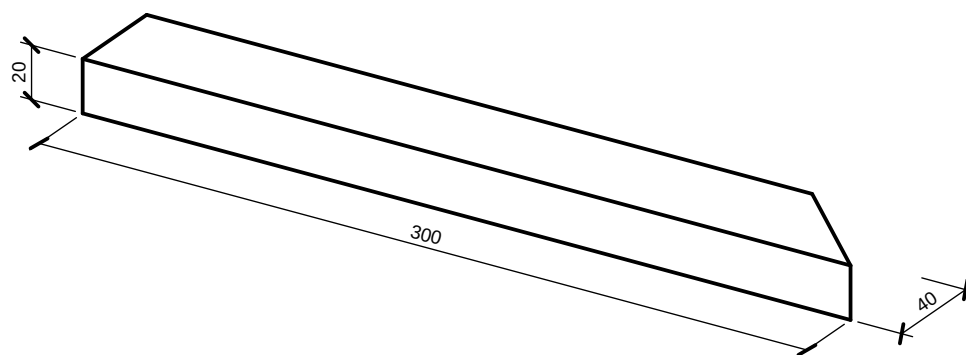
assembly	mitre_splice
parts	2 (1 different)
overall	40 x 20 x 560 (W x D x H)
material	oak
scale	not to scale, mm



TOP FACE



FRONT EDGE



ISOMETRIC

2 pieces: a, b
 1 mitre 45 deg on right_end, back_edge inside

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

Cut list

a_b 300 x 40 x 20 mm oak, 2 pieces: a, b
- mitre 45 deg on right_end, back_edge inside

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.mitre_splice
```

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

```
def mitre_splice(
    length: float = 300, width: float = 40, angle: float = 45, stock: Stock = OAK
) -> Assembly:
    """Two stiles end to end, lengthened by a mitre across the face."""
    asm = Assembly("mitre_splice", root_location=STANDING)
    a = asm.add(Board("a", stock, length=length, width=width))
    b = asm.add(Board("b", stock, length=length, width=width))
    asm.join(MitreSplice(a.right_end, b.left_end, short=a.back_edge, angle=angle))
    return asm
```