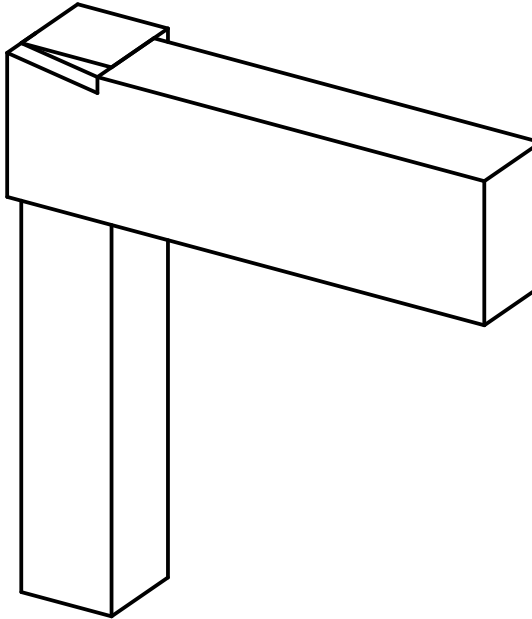


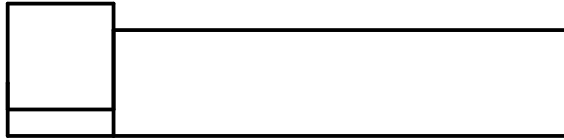
Let in dovetail rail



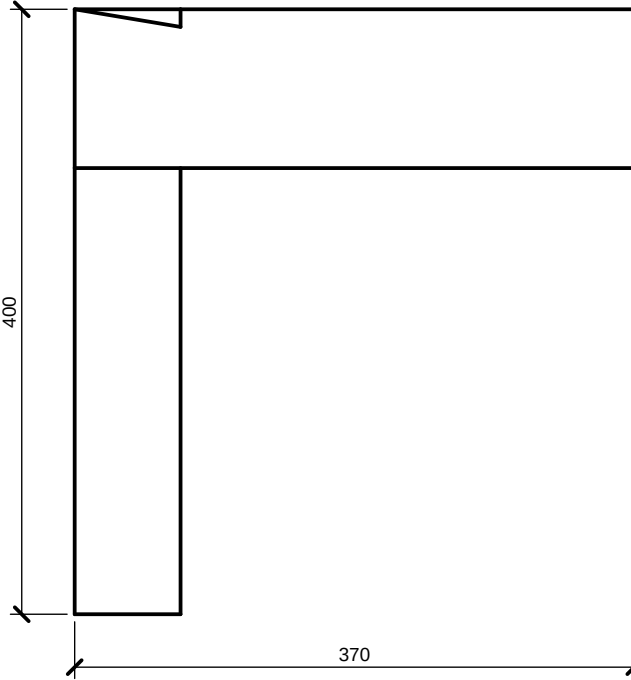
parts	2
overall	370 x 87.5 x 400 (W x D x H)
material	oak
date	2026-10-25
made with	woodwright 0.9.0

Contents

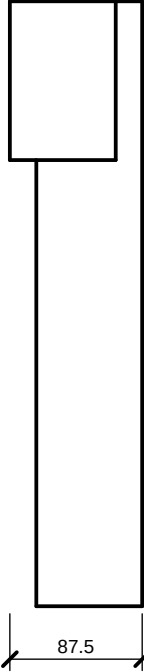
Drawings	3
Assembly	3
Parts	4
1 leg	5
2 rail	6
Cut list	7
Appendix: source	8



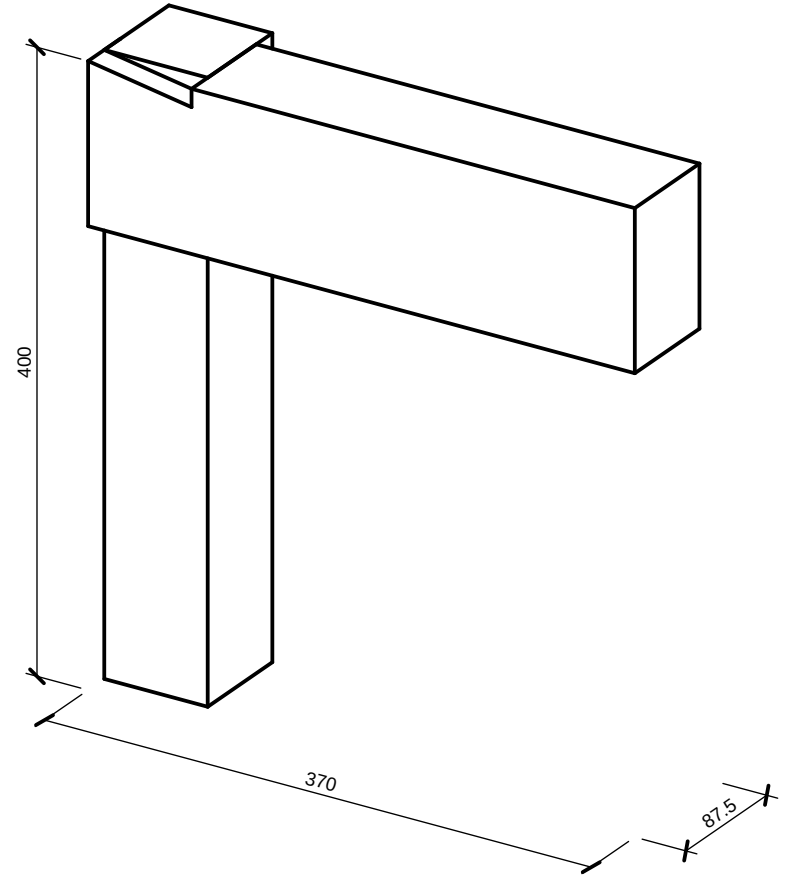
TOP



FRONT

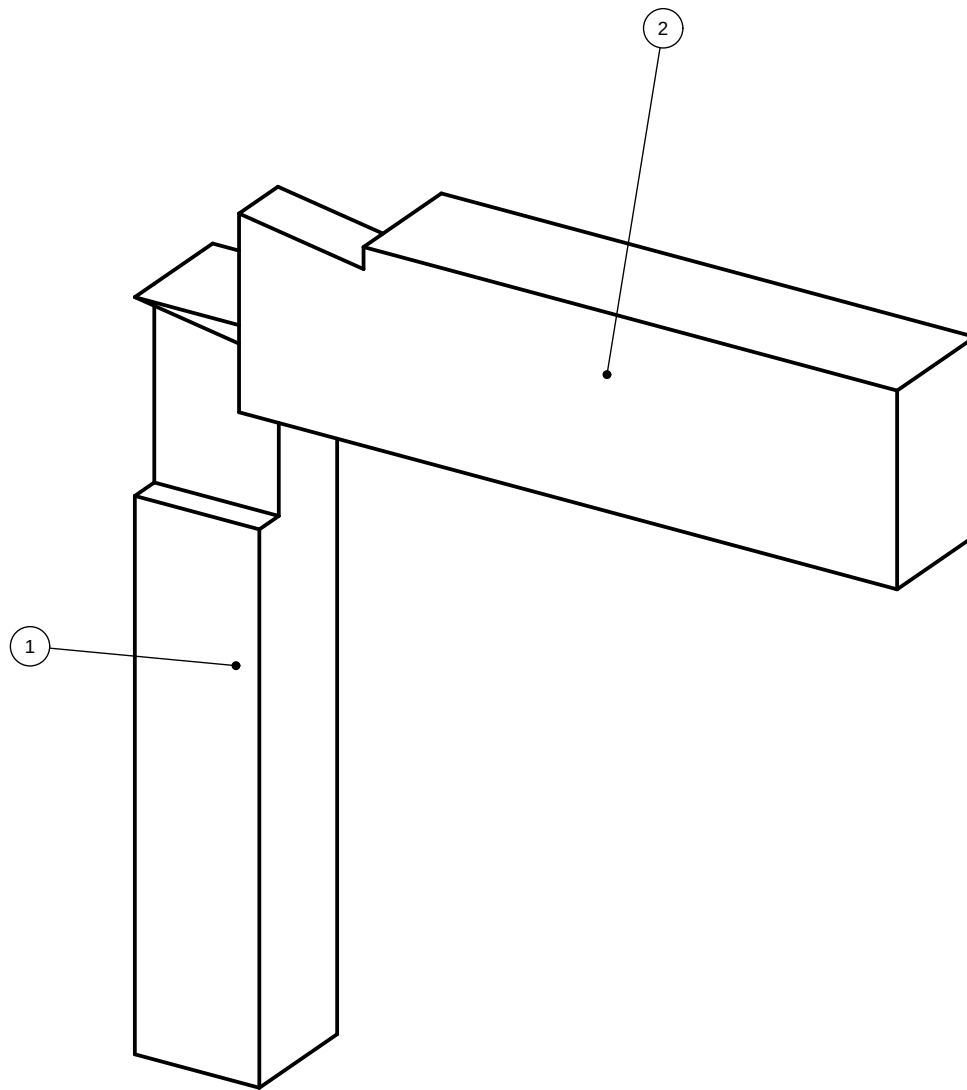


RIGHT SIDE



ISOMETRIC

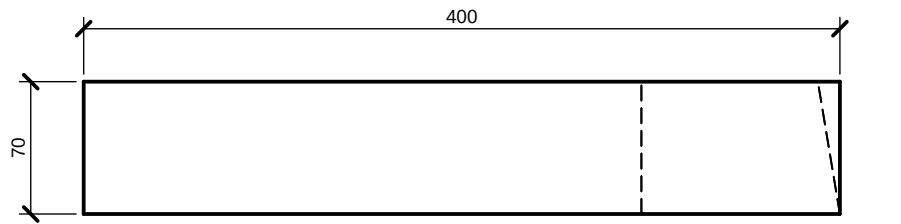
assembly	let_in_dovetail_rail
parts	2
overall	370 x 87.5 x 400 (W x D x H)
material	oak
scale	1:5, mm



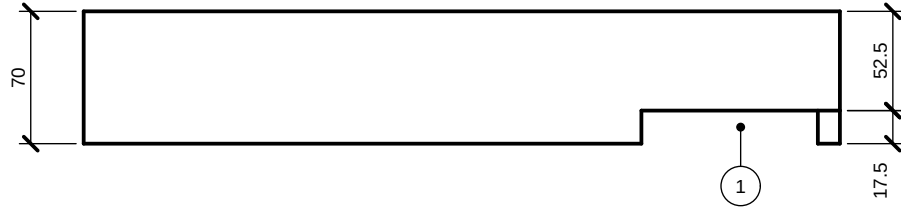
no.	part	qty	cut size (L x W x T)	material
1	leg	1	400 x 70 x 70	oak
2	rail	1	370 x 105 x 70	oak

EXPLODED

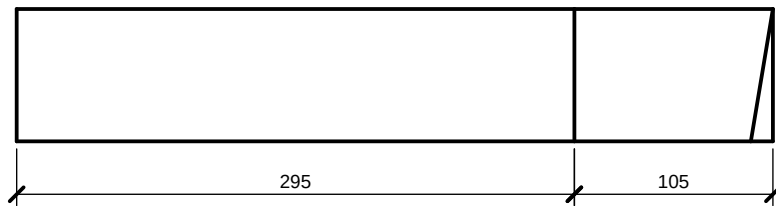
assembly	let_in_dovetail_rail
parts	2
overall	370 x 87.5 x 400 (W x D x H)
material	oak
scale	not to scale, mm



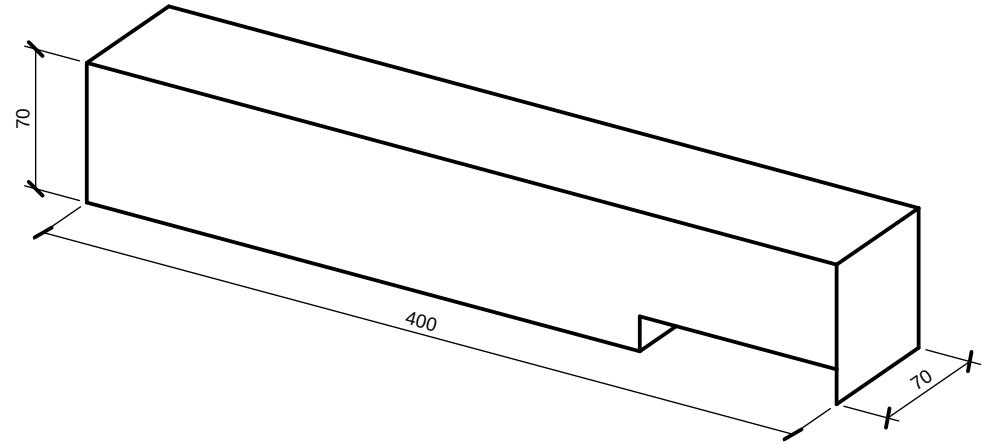
TOP FACE



FRONT EDGE



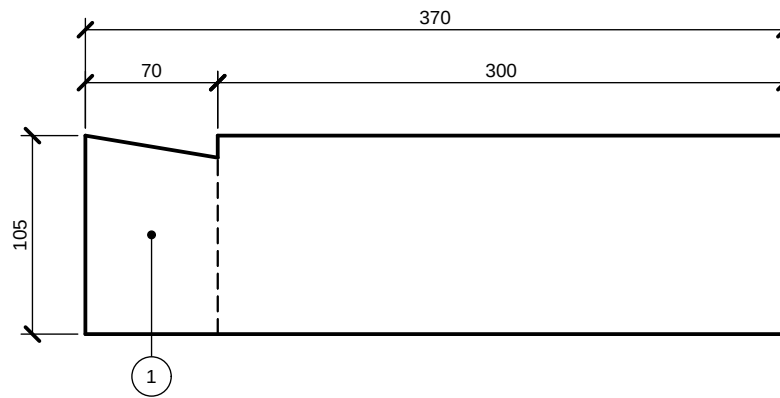
BOTTOM FACE



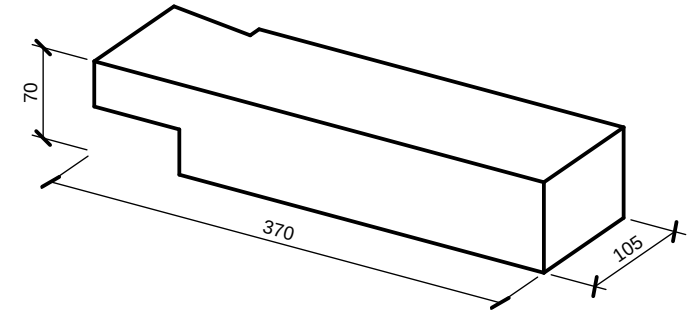
ISOMETRIC

1 dovetail socket 93.3 to 105 mm, 17.5 deep, 1:6, in bottom_face

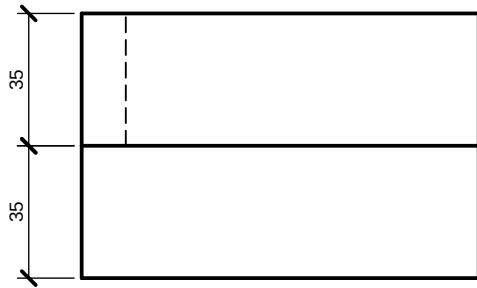
part	leg
of	let_in_dovetail_rail
make	1
cut size	400 x 70 x 70
material	oak
scale	1:4, mm



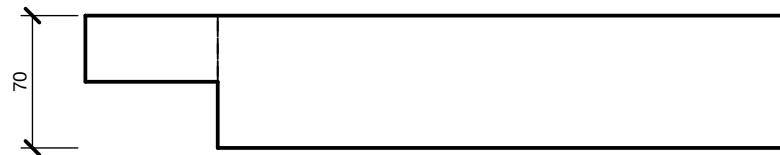
TOP FACE



ISOMETRIC



LEFT END 1:2



FRONT EDGE

1 half-dovetail lap 35 mm thick, 70 long, 93.3 wide at the shoulder, 1:6, on left_end

part	rail
of	let_in_dovetail_rail
make	1
cut size	370 x 105 x 70
material	oak
scale	1:4, mm

Cut list

leg 400 x 70 x 70 mm oak
- dovetail socket 93.3 to 105 mm, 17.5 deep, 1:6, in bottom_face
rail 370 x 105 x 70 mm oak
- half-dovetail lap 35 mm thick, 70 long, 93.3 wide at the shoulder, 1:6, on left_end

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.let_in_dovetail_rail
```

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

```
def let_in_dovetail_rail(
    leg_length: float = 400, rail_length: float = 300, stock: Stock = POST_STOCK
) -> Assembly:
    """A rail lapped across the top of a square leg as `let_in_rail`, its lap
    cut to a half dovetail: flat at the bottom, sloped 1:6 at the top, so
    the rail can't be pulled out of the leg along its length. The rail is
    deeper than it is thick (2:3), flush with the top of the leg; the notch
    in the leg is open at the top.
    """
    asm = Assembly("let_in_dovetail_rail", root_location=STANDING)
    leg = asm.add(Board("leg", stock, length=leg_length, width=stock.thickness))
    rail = asm.add(Board("rail", stock, length=rail_length, width=stock.thickness * 1.5))
    asm.join(
        DovetailHalfLap(
            lap=rail.left_end,
            socket=leg.back_edge,
            position=flush_with(leg.right_end),
            flush=(leg.bottom_face, rail.top_face),
            over=True,
            proud=stock.thickness / 4,
            slope=6,
            sloped=(rail.back_edge,),
        )
    )
    return asm
```