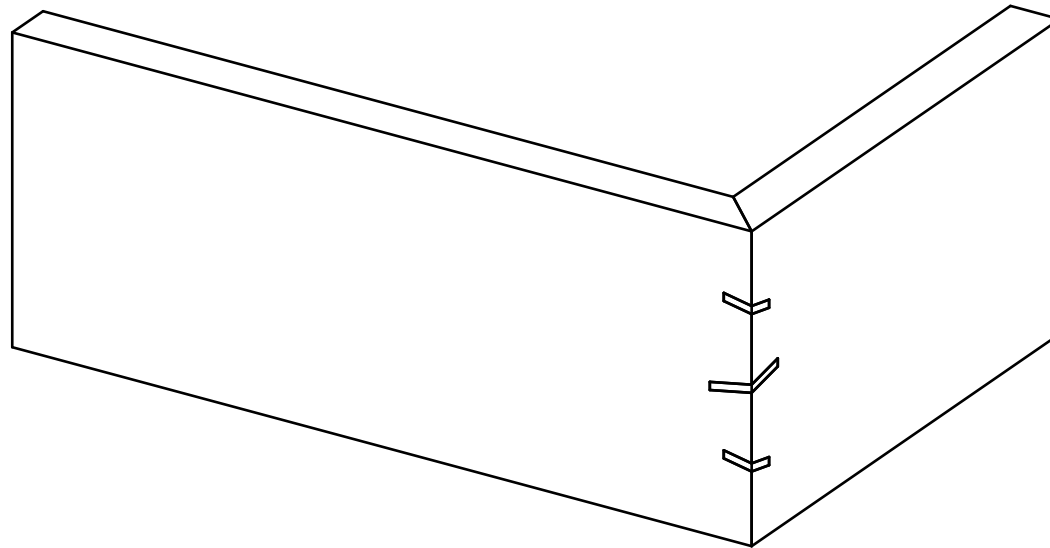


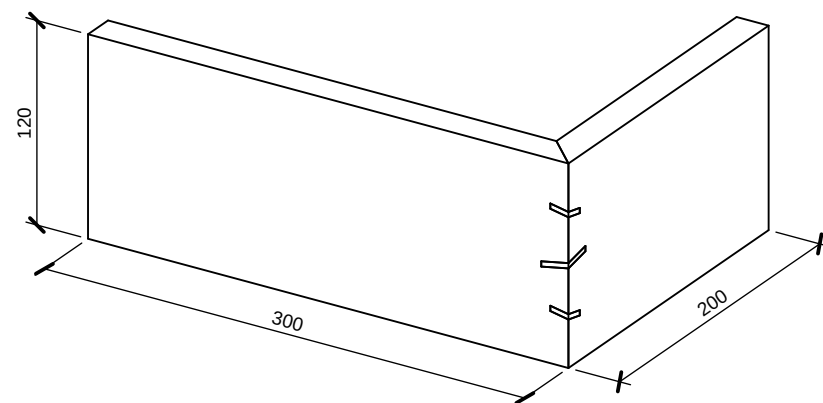
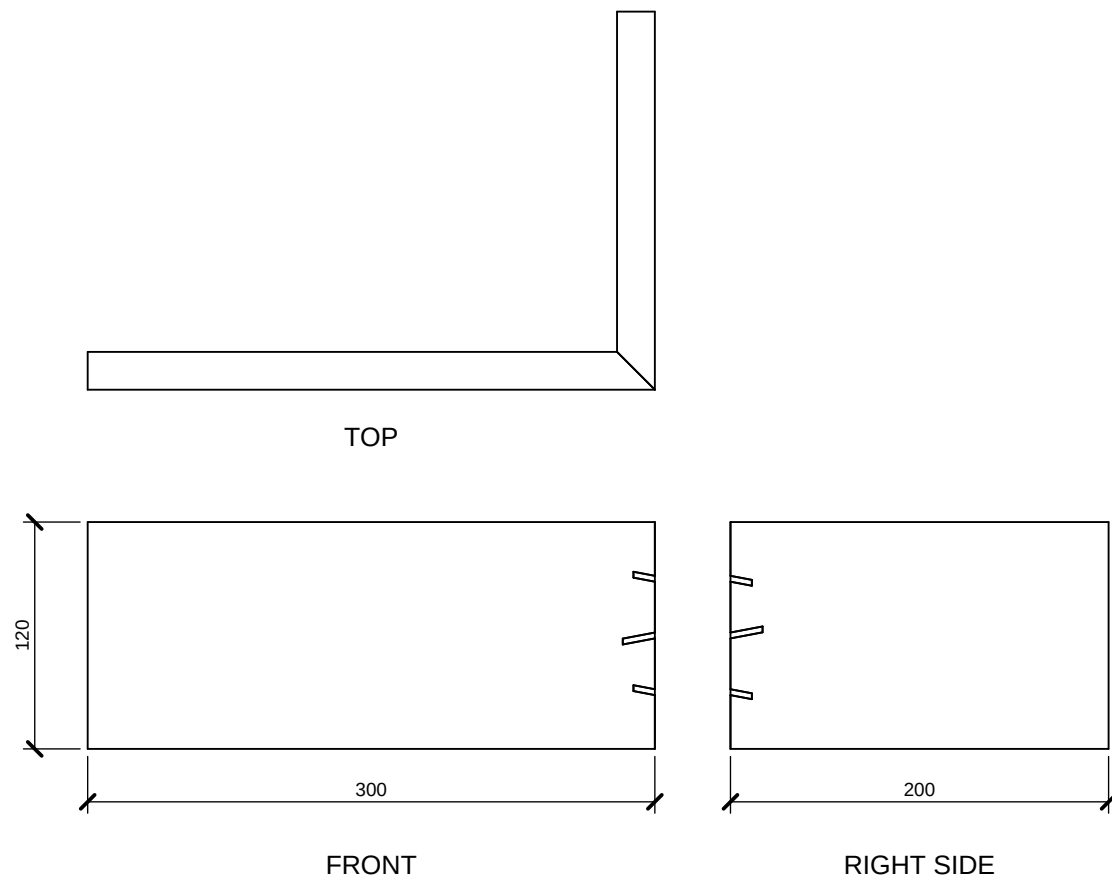
Slanted keys box corner



parts	5 (4 different)
overall	300 x 200 x 120 (W x D x H)
material	oak, walnut
date	2026-10-25
made with	woodwright 0.9.0

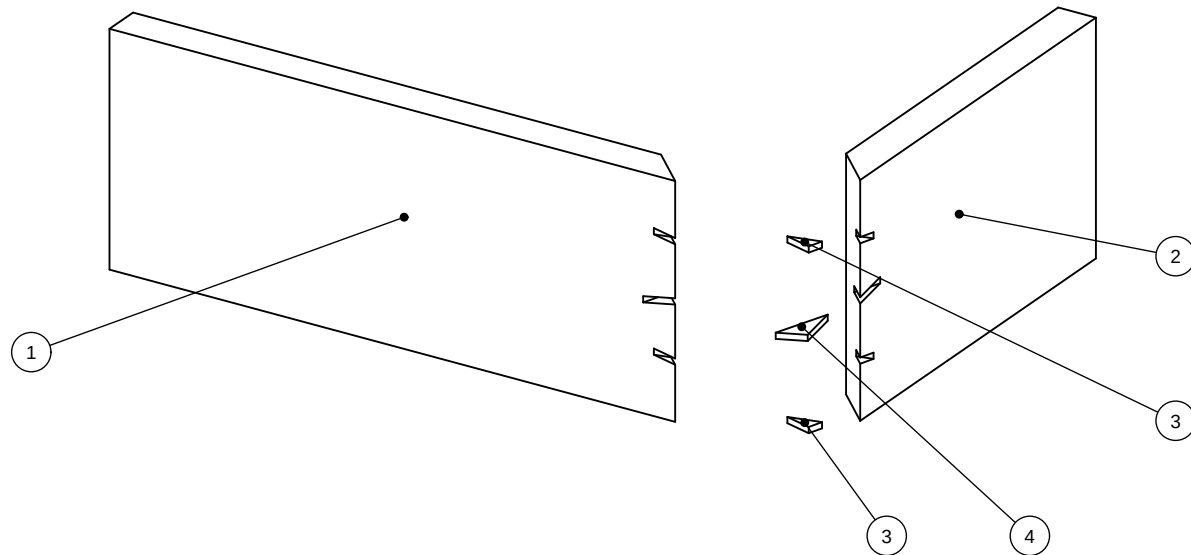
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ISOMETRIC

assembly	slanted_keys_box_corner
parts	5 (4 different)
overall	300 x 200 x 120 (W x D x H)
material	oak, walnut
scale	1:4, mm



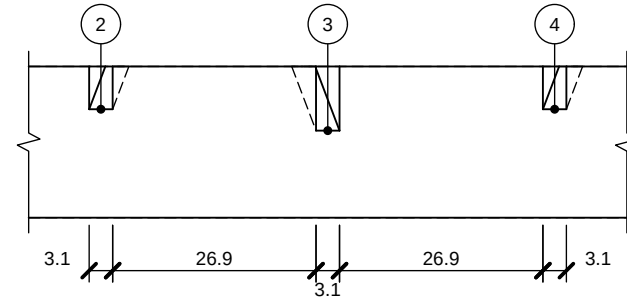
EXPLODED

no.	part	qty	cut size (L x W x T)	material	
1	front	1	300 x 120 x 20	oak	
2	side	1	200 x 120 x 20	oak	mirror image
3	key	2	40 x 15 x 3	walnut	
4	key_2	1	40 x 15 x 3	walnut	

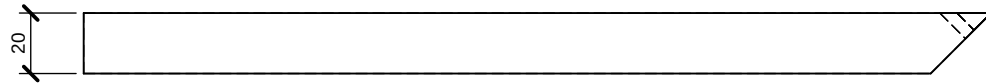
assembly	slanted_keys_box_corner
parts	5 (4 different)
overall	300 x 200 x 120 (W x D x H)
material	oak, walnut
scale	not to scale, mm



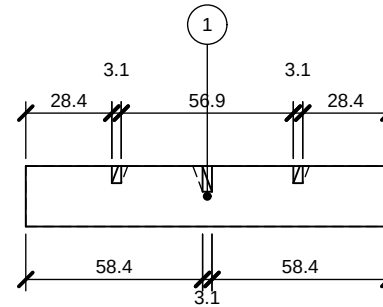
TOP FACE



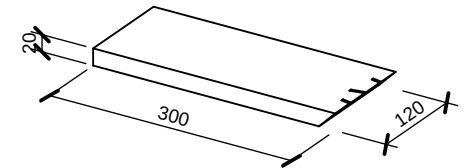
RIGHT END: 2-4 1:1



FRONT EDGE



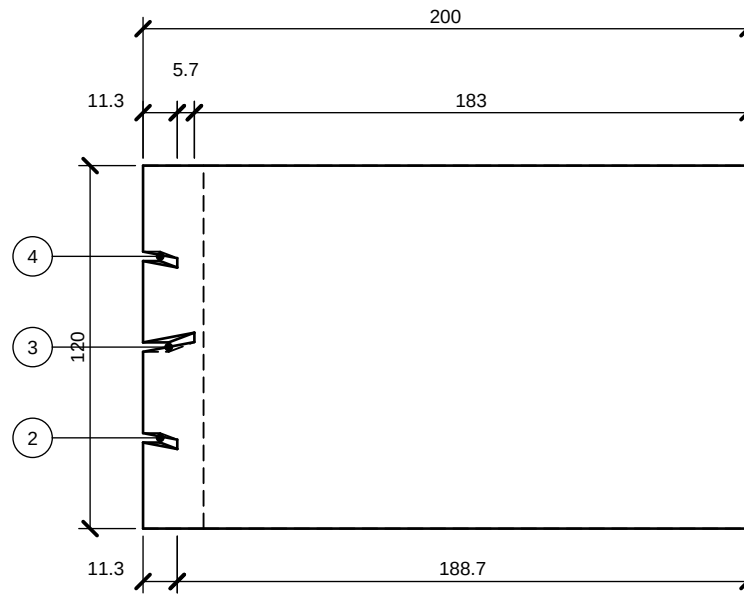
RIGHT END



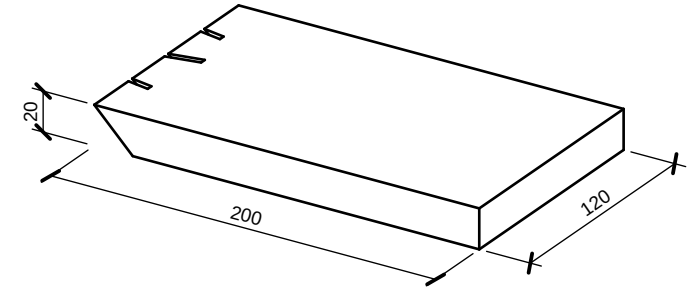
ISOMETRIC

- 1 mitre 45 deg on right_end, bottom_face inside
- 2 key kerf 3 mm wide, 8 deep across the corner with side, 30 from front_edge, turned 15 deg
- 3 key kerf 3 mm wide, 12 deep across the corner with side, 60 from front_edge, turned -15 deg
- 4 key kerf 3 mm wide, 8 deep across the corner with side, 90 from front_edge, turned 15 deg

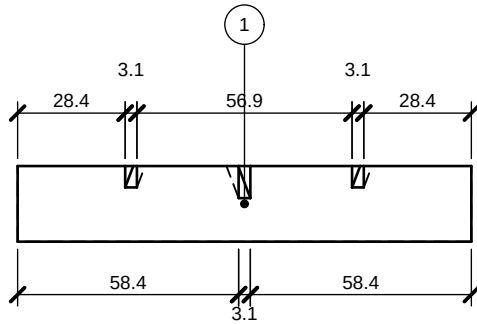
part	front
of	slanted_keys_box_corner
make	1
cut size	300 x 120 x 20
material	oak
scale	1:2.5, mm



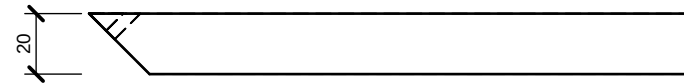
TOP FACE



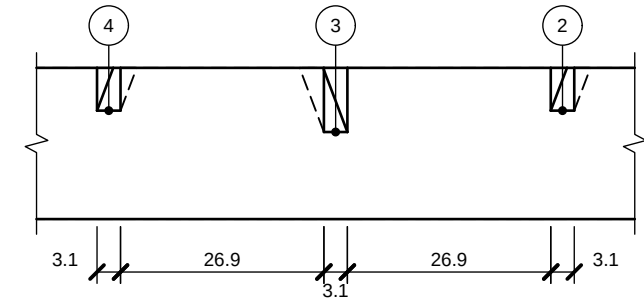
ISOMETRIC



RIGHT END 1:2



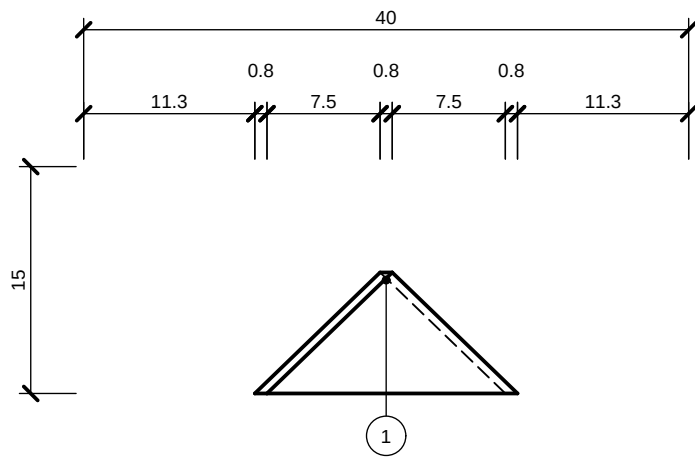
FRONT EDGE



RIGHT END: 2-4 1:1

- 1 mitre 45 deg on right_end, bottom_face inside
- 2 key kerf 3 mm wide, 8 deep across the corner with front, 30 from front_edge, turned 15 deg
- 3 key kerf 3 mm wide, 12 deep across the corner with front, 60 from front_edge, turned -15 deg
- 4 key kerf 3 mm wide, 8 deep across the corner with front, 90 from front_edge, turned 15 deg

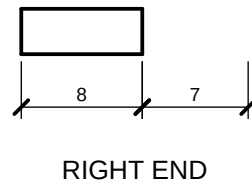
part	side
of	slanted_keys_box_corner
make	1
cut size	200 x 120 x 20
material	oak, mirror image
scale	1:2.5, mm



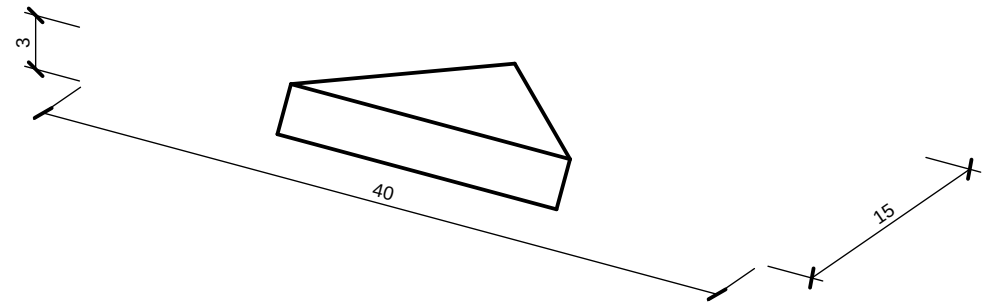
TOP FACE



FRONT EDGE



RIGHT END

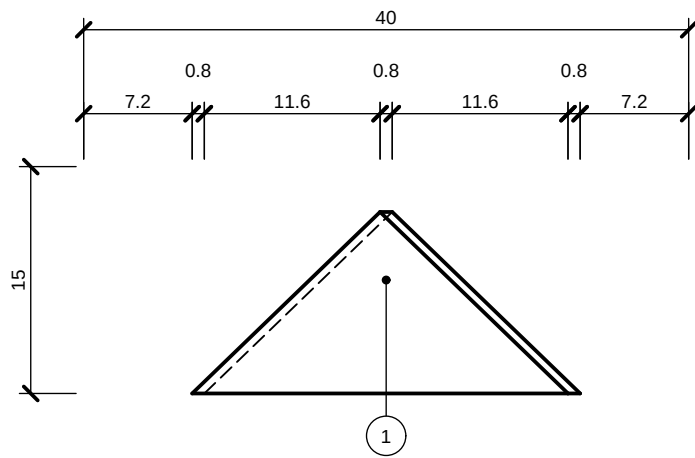


ISOMETRIC

2 pieces: key_1, key_3

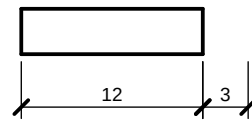
1 trimmed flush with front and side, to a triangle

part	key
of	slanted_keys_box_corner
make	2
cut size	40 x 15 x 3
material	walnut
scale	2:1, mm

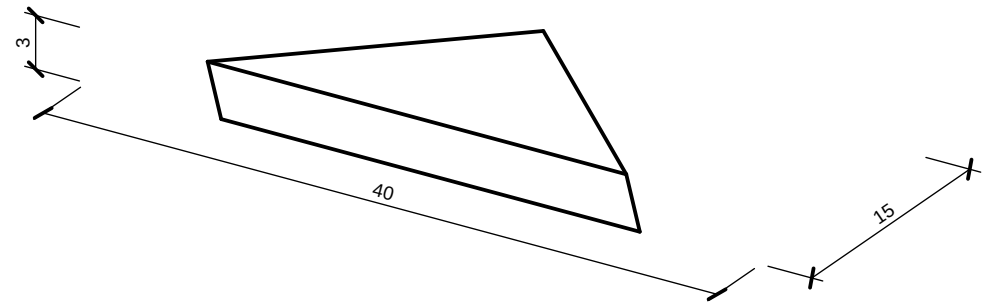


TOP FACE

FRONT EDGE



RIGHT END



ISOMETRIC

1 trimmed flush with front and side, to a triangle

part	key_2
of	slanted_keys_box_corner
make	1
cut size	40 x 15 x 3
material	walnut
scale	2:1, mm

Cut list

front 300 x 120 x 20 mm oak
- mitre 45 deg on right_end, bottom_face inside
- key kerf 3 mm wide, 8 deep across the corner with side, 30 from front_edge, turned 15 deg
- key kerf 3 mm wide, 12 deep across the corner with side, 60 from front_edge, turned -15 deg
- key kerf 3 mm wide, 8 deep across the corner with side, 90 from front_edge, turned 15 deg
side 200 x 120 x 20 mm oak, mirror image
- mitre 45 deg on right_end, bottom_face inside
- key kerf 3 mm wide, 8 deep across the corner with front, 30 from front_edge, turned 15 deg
- key kerf 3 mm wide, 12 deep across the corner with front, 60 from front_edge, turned -15 deg
- key kerf 3 mm wide, 8 deep across the corner with front, 90 from front_edge, turned 15 deg
key 40 x 15 x 3 mm walnut, 2 pieces: key_1, key_3
- trimmed flush with front and side, to a triangle
key_2 40 x 15 x 3 mm walnut
- trimmed flush with front and side, to a triangle

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.slanted_keys_box_corner
```

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

```
def slanted_keys_box_corner(
    front_length: float = 300,
    side_length: float = 200,
    height: float = 120,
    angle: float = 15,
    depths: tuple[float, ...] = (8, 12, 8),
    stock: Stock = OAK,
) -> Assembly:
    """A keyed box corner, the kerfs tilted alternately up and down by
    `angle` (the cradle set askew), so that the keys show as slanted lines
    on both faces; the middle one deeper than the others."""
    return _keyed_box_corner(
        "slanted_keys_box_corner", front_length, side_length, height, angle, depths, stock
    )
```