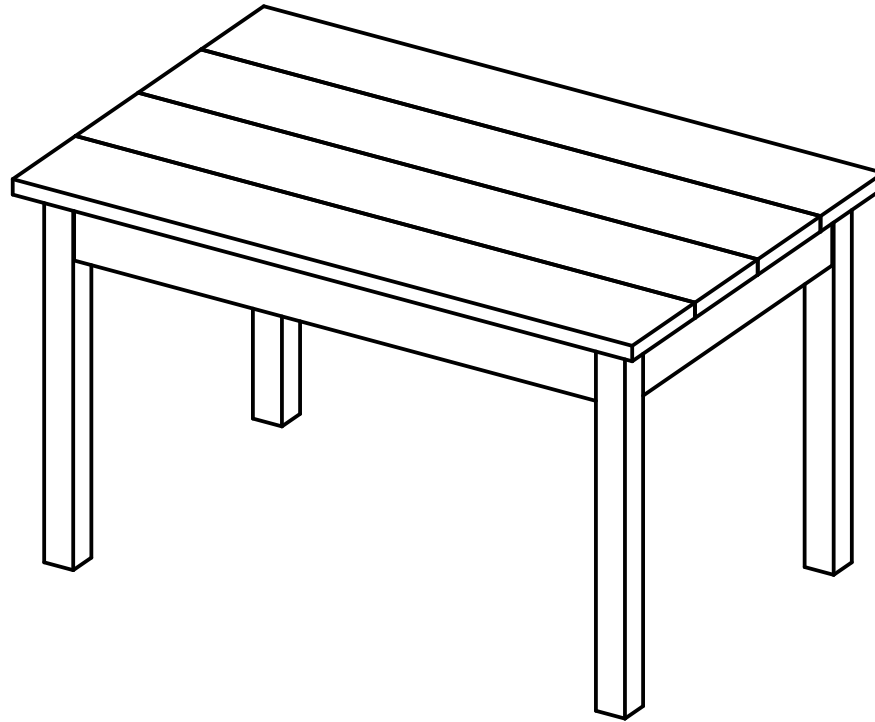


# Table

---



|           |                              |
|-----------|------------------------------|
| parts     | 22 (6 different)             |
| overall   | 1280 x 830 x 750 (W x D x H) |
| material  | oak                          |
| date      | 2026-10-24                   |
| made with | woodwright 0.8.0             |

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## Description

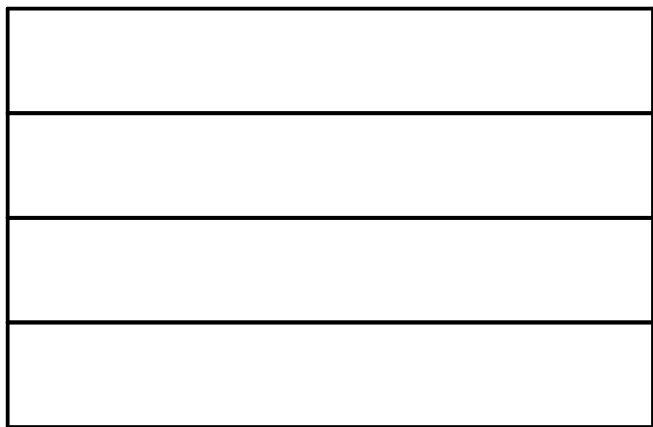
A dining or work table in solid oak: four square legs, wide aprons tenoned into them, and a top glued up from boards edge to edge.

### How it is built

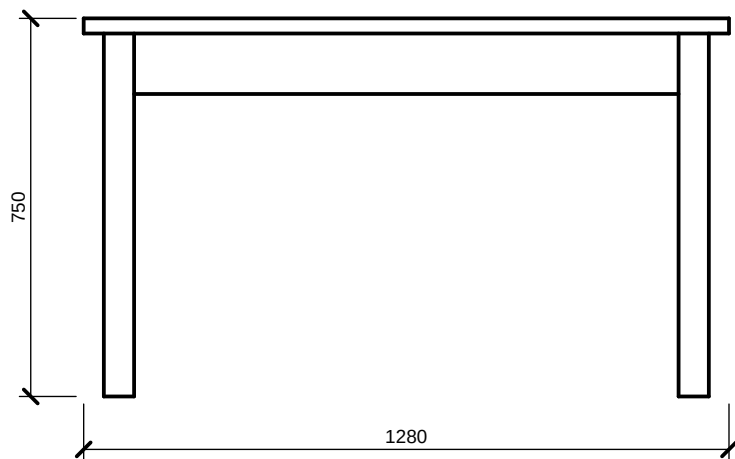
- The aprons are joined to the legs with **haunched mortise and tenon** joints, set down from the top of the legs so the legs keep their tops whole. The two tenons meeting in a leg are mitred at their ends.
- The top is *not* glued to the frame: wooden **buttons**, screwed to its underside, have tongues in short mortises in the aprons, so the top can move across its grain with the seasons.

### Order of work

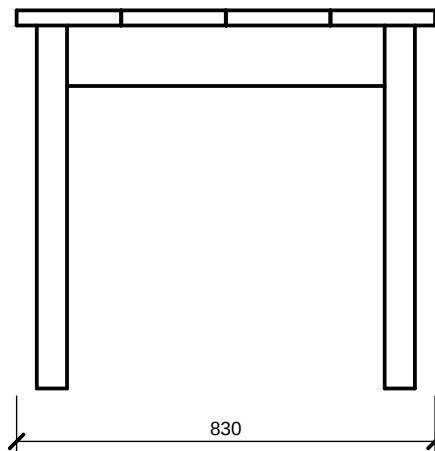
1. Mill all the parts to their cut sizes (see the cut list).
2. Mark out and cut the mortises in the legs, then the tenons to fit them.
3. Cut the button mortises in the aprons, and dry-fit the frame.
4. Glue up the frame: first the two short sides, then join them with the long aprons; check the diagonals.
5. Glue up the top, flatten it, and fix it with the buttons.



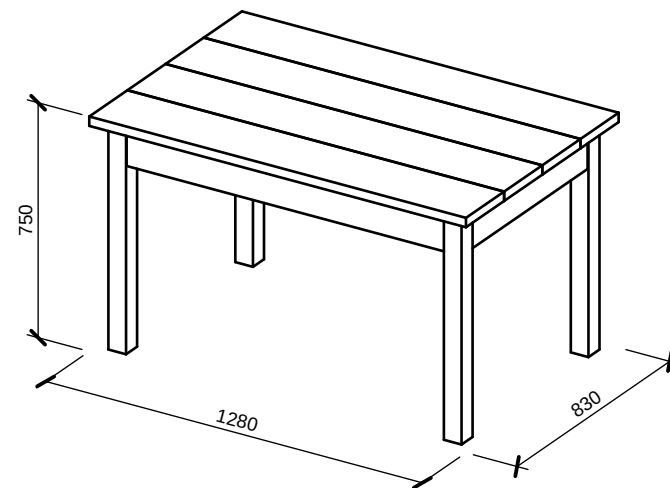
TOP



FRONT

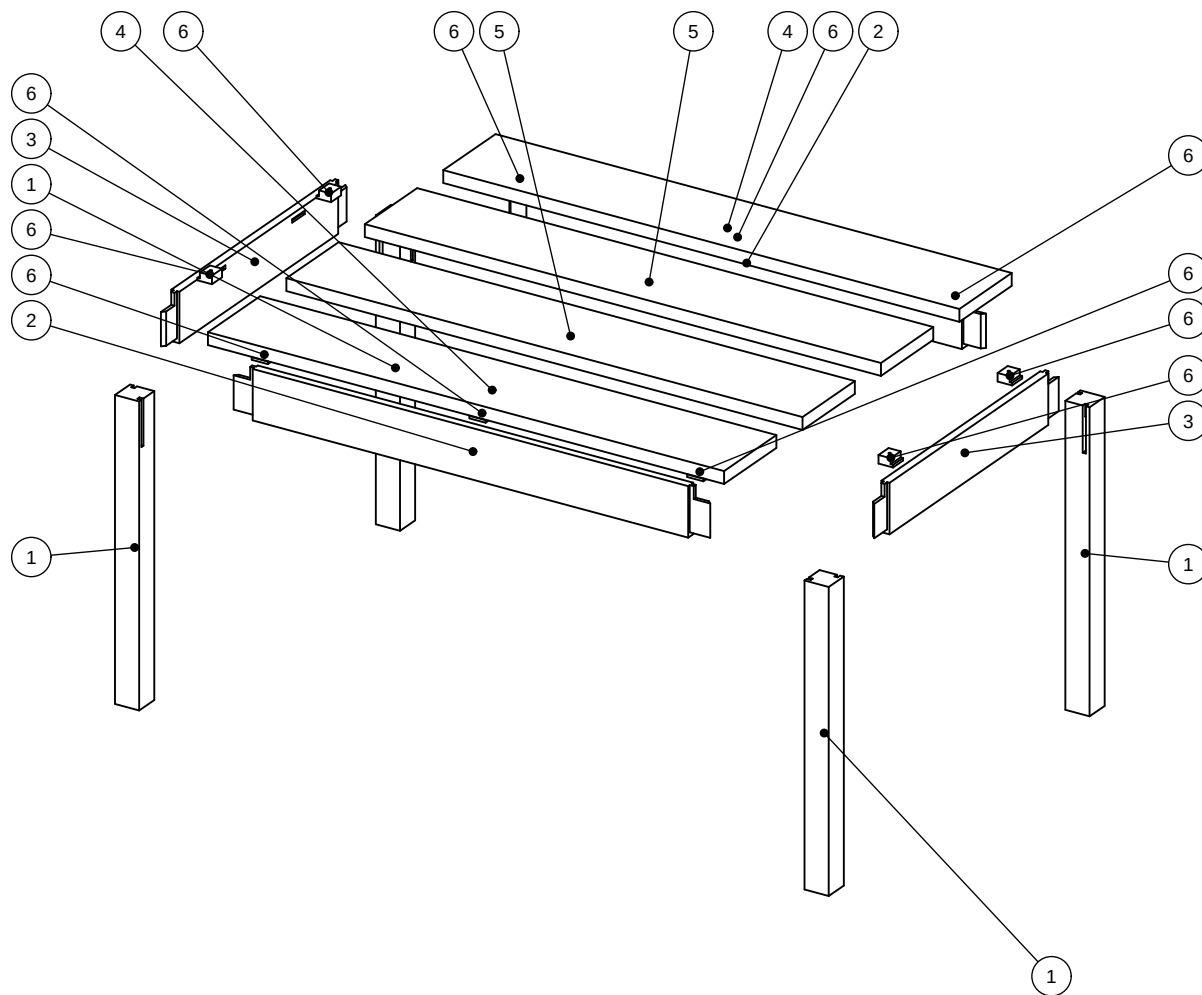


RIGHT SIDE



ISOMETRIC

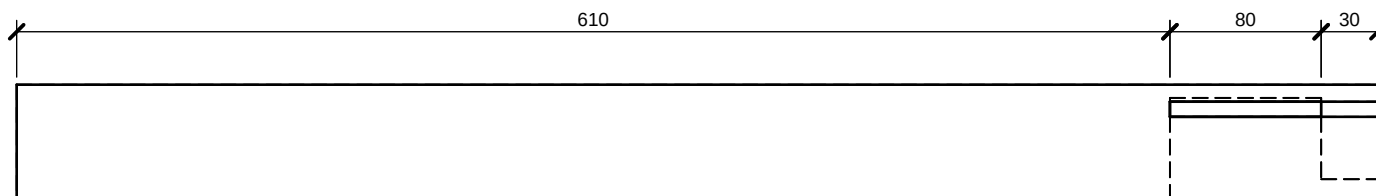
|          |                              |
|----------|------------------------------|
| assembly | <b>table</b>                 |
| parts    | 22 (6 different)             |
| overall  | 1280 x 830 x 750 (W x D x H) |
| material | <b>oak</b>                   |
| scale    | 1:15, mm                     |



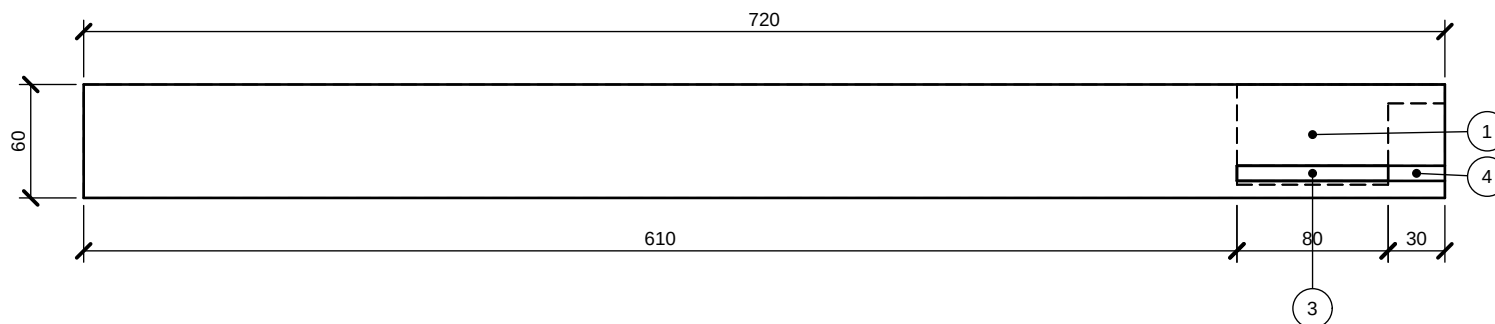
EXPLODED

| no. | part             | qty | cut size (L x W x T) | material |
|-----|------------------|-----|----------------------|----------|
| 1   | leg              | 4   | 720 x 60 x 60        | oak      |
| 2   | apron_front_back | 2   | 1182 x 120 x 20      | oak      |
| 3   | apron_right_left | 2   | 732 x 120 x 20       | oak      |
| 4   | top_1_4          | 2   | 1280 x 207.5 x 30    | oak      |
| 5   | top_2_3          | 2   | 1280 x 207.5 x 30    | oak      |
| 6   | button           | 10  | 36 x 40 x 20         | oak      |

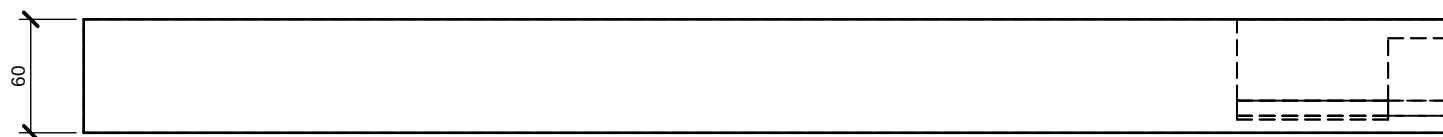
|          |                              |
|----------|------------------------------|
| assembly | <b>table</b>                 |
| parts    | 22 (6 different)             |
| overall  | 1280 x 830 x 750 (W x D x H) |
| material | oak                          |
| scale    | not to scale, mm             |



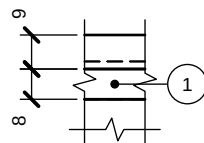
BACK EDGE



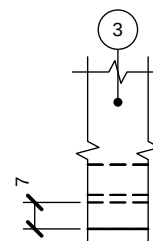
TOP FACE



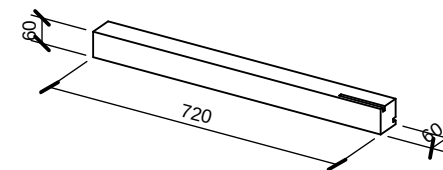
FRONT EDGE



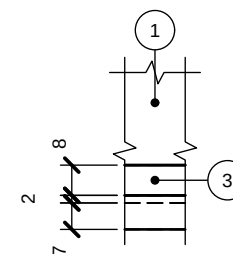
BACK EDGE: 1, 2 1:2



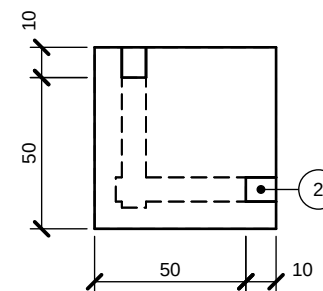
FRONT EDGE: 3 1:2



ISOMETRIC



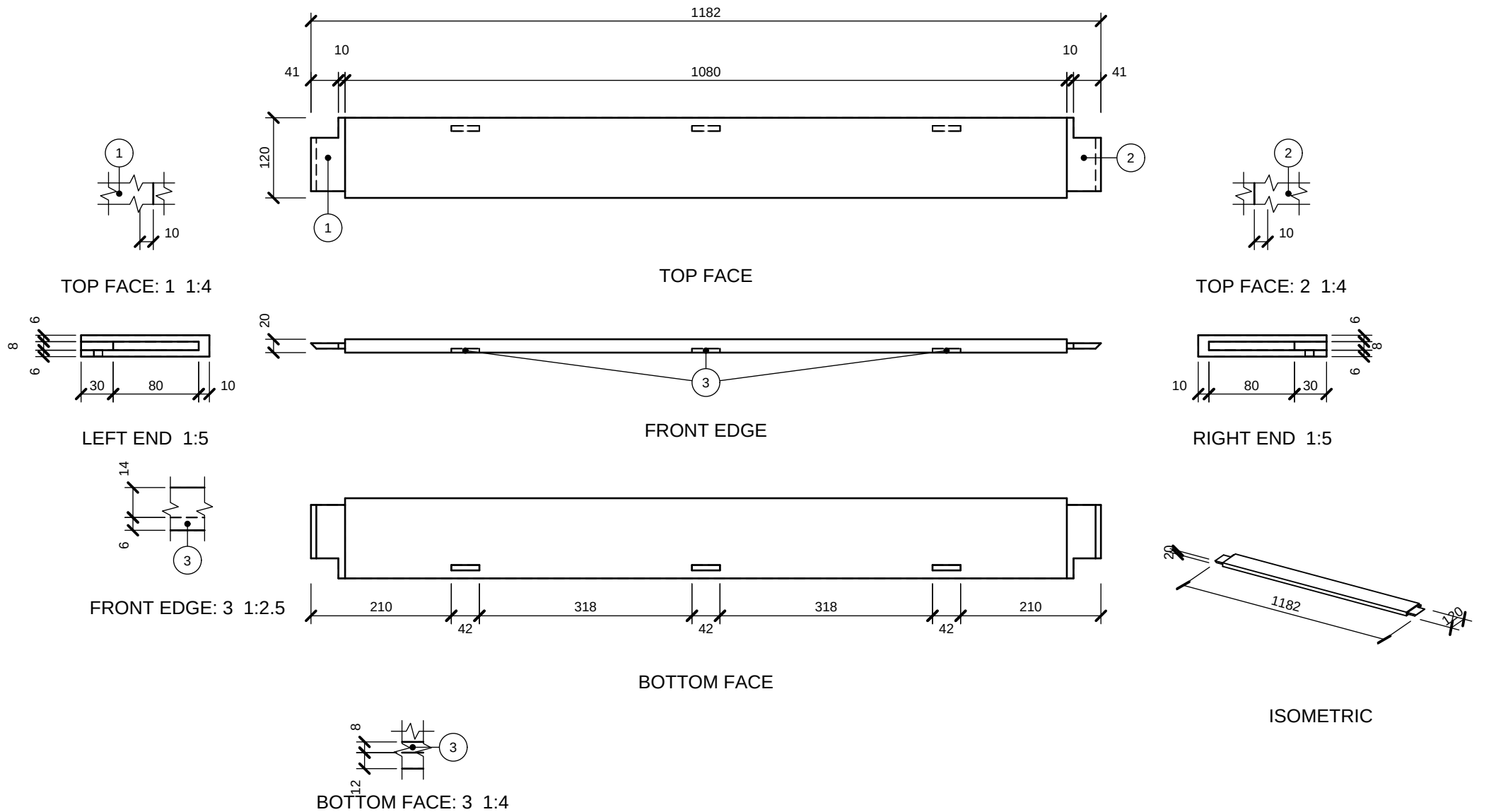
TOP FACE: 1, 3, 4 1:2



RIGHT END 1:2.5

- 4 pieces: leg\_front\_left, leg\_front\_right, leg\_back\_right, leg\_back\_left
- 1 mortise 80 x 8 mm, 53 deep, in back\_edge
- 2 haunch mortise 30 x 8 mm, 10 deep, in back\_edge at right\_end
- 3 mortise 80 x 8 mm, 53 deep, in top\_face
- 4 haunch mortise 30 x 8 mm, 10 deep, in top\_face at right\_end

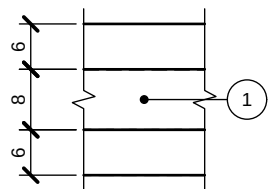
|          |                      |
|----------|----------------------|
| part     | <b>leg</b>           |
| of       | <b>table</b>         |
| make     | <b>4</b>             |
| cut size | <b>720 x 60 x 60</b> |
| material | <b>oak</b>           |
| scale    | <b>1:4, mm</b>       |



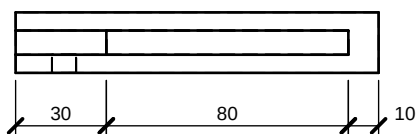
2 pieces: apron\_front, apron\_back

- 1 haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on left\_end
- 2 haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on right\_end
- 3 3 x mortise 42 x 8 mm, 6 deep, in bottom\_face

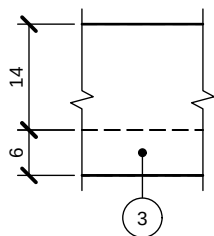
|          |                         |
|----------|-------------------------|
| part     | <b>apron_front_back</b> |
| of       | table                   |
| make     | 2                       |
| cut size | 1182 x 120 x 20         |
| material | oak                     |
| scale    | 1:8, mm                 |



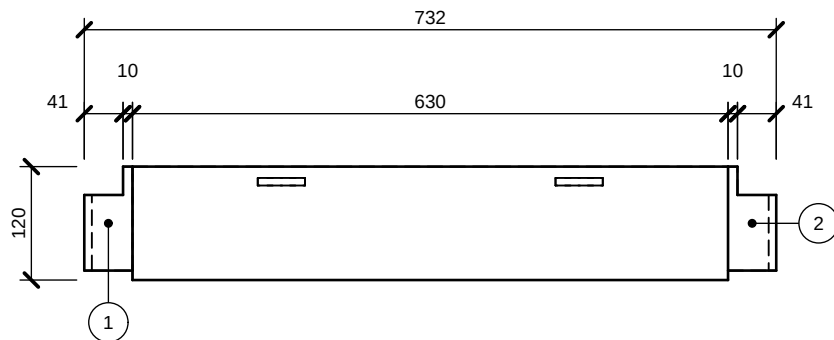
LEFT END: 1 1:1



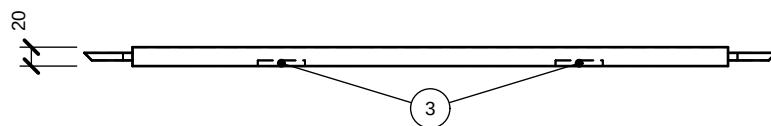
LEFT END 1:2.5



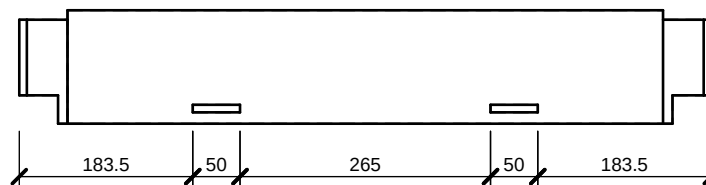
FRONT EDGE: 3 1:1



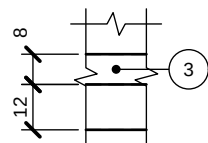
TOP FACE



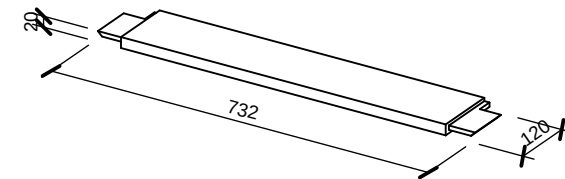
FRONT EDGE



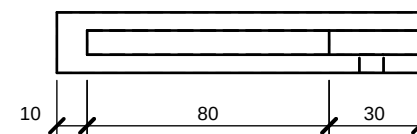
BOTTOM FACE



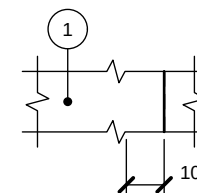
BOTTOM FACE: 3 1:2



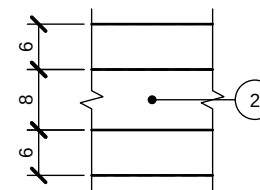
ISOMETRIC



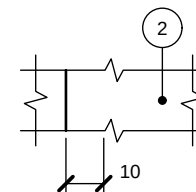
RIGHT END 1:2.5



TOP FACE: 1 1:2



RIGHT END: 2 1:1

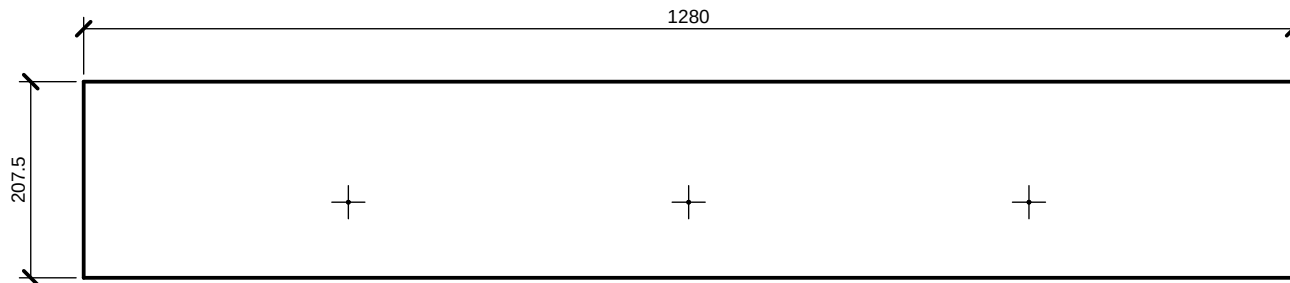


TOP FACE: 2 1:2

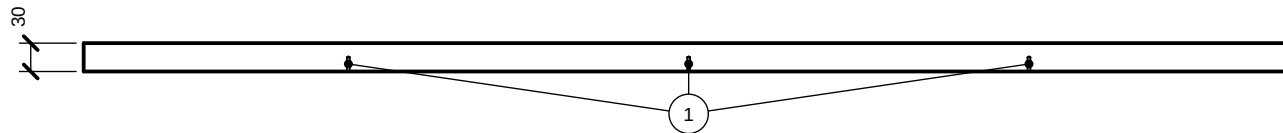
2 pieces: apron\_right, apron\_left

- 1 haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on left\_end
- 2 haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on right\_end
- 3 2 x mortise 50 x 8 mm, 6 deep, in bottom\_face

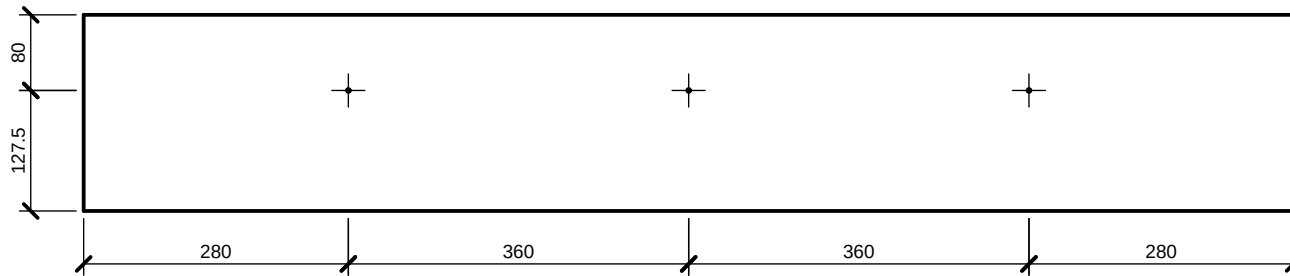
|          |                         |
|----------|-------------------------|
| part     | <b>apron_right_left</b> |
| of       | table                   |
| make     | 2                       |
| cut size | 732 x 120 x 20          |
| material | <b>oak</b>              |
| scale    | 1:8, mm                 |



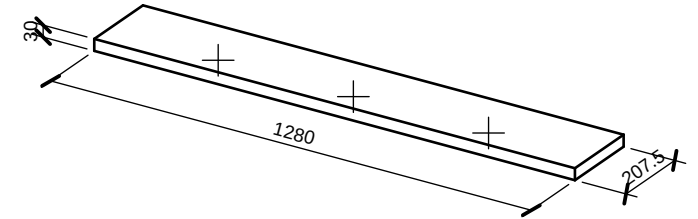
TOP FACE



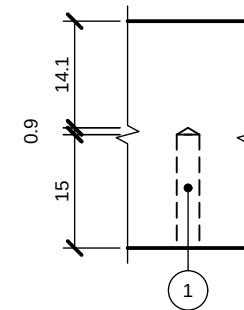
FRONT EDGE



BOTTOM FACE



ISOMETRIC

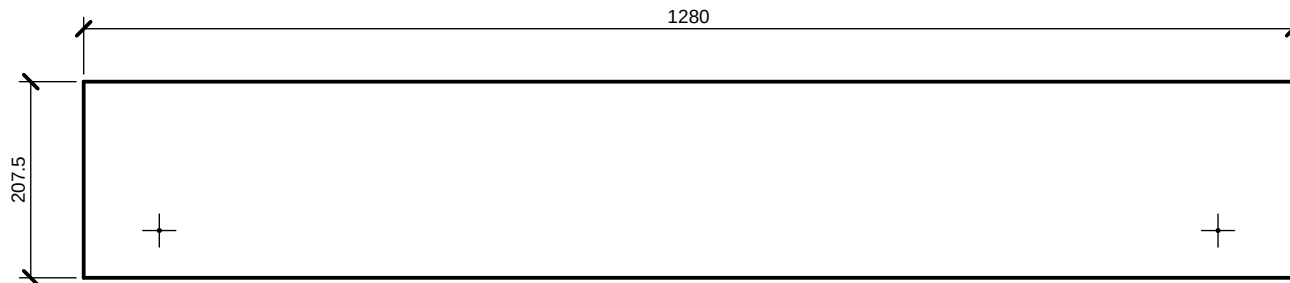


FRONT EDGE: 1 1:1

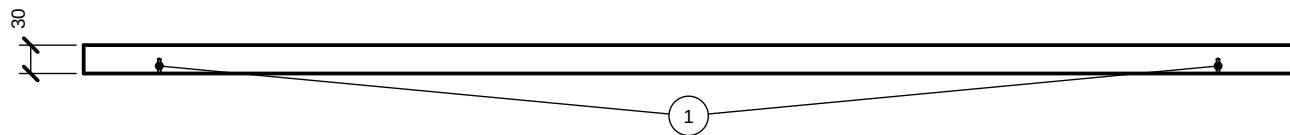
2 pieces: top\_1, top\_4

1 3 x pilot hole  $\varnothing 3$ , 15 deep, drill point 118 deg, in bottom\_face, for a 4 x 35 screw

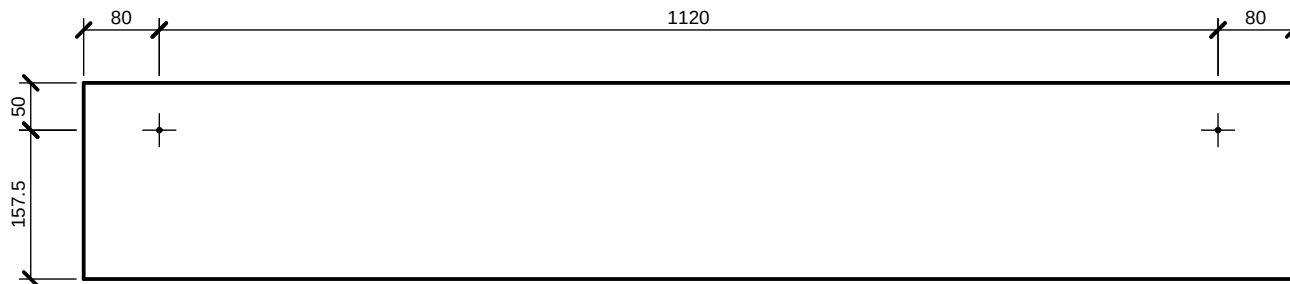
|          |                   |
|----------|-------------------|
| part     | <b>top_1_4</b>    |
| of       | table             |
| make     | 2                 |
| cut size | 1280 x 207.5 x 30 |
| material | oak               |
| scale    | 1:8, mm           |



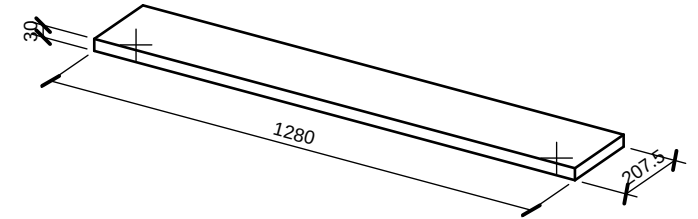
TOP FACE



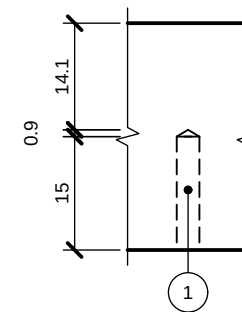
FRONT EDGE



BOTTOM FACE



ISOMETRIC

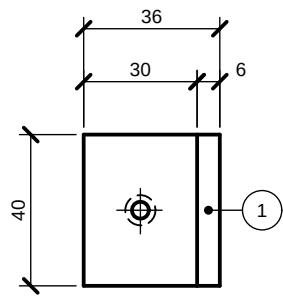


FRONT EDGE: 1 1:1

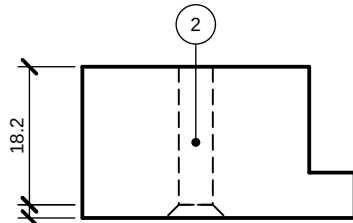
2 pieces: top\_2, top\_3

1 2 x pilot hole  $\varnothing 3$ , 15 deep, drill point 118 deg, in bottom\_face, for a 4 x 35 screw

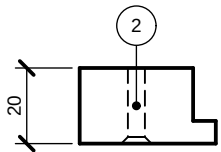
|          |                   |
|----------|-------------------|
| part     | <b>top_2_3</b>    |
| of       | table             |
| make     | 2                 |
| cut size | 1280 x 207.5 x 30 |
| material | oak               |
| scale    | 1:8, mm           |



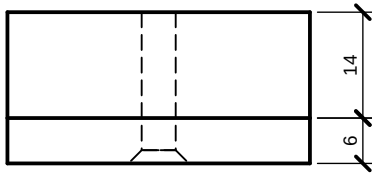
TOP FACE



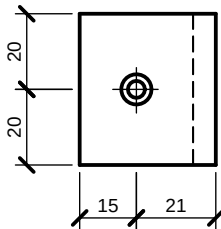
FRONT EDGE: 2 1:1



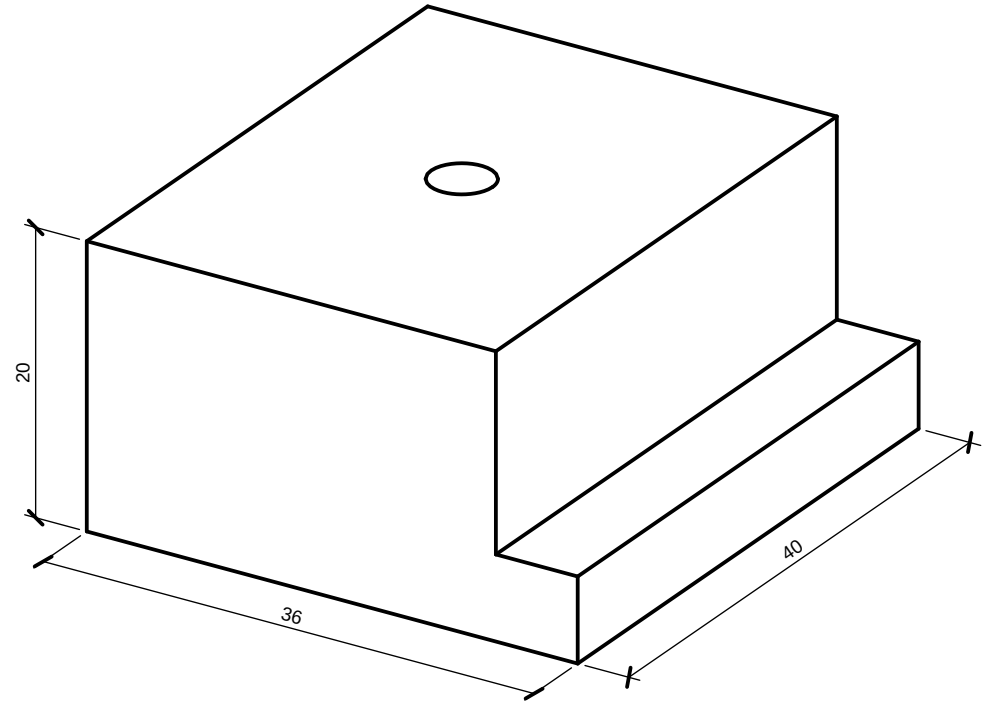
FRONT EDGE



RIGHT END 1:1



BOTTOM FACE



ISOMETRIC

- 10 pieces: button\_front\_1, button\_front\_2, button\_front\_3, button\_right\_1, button\_right\_2, button\_back\_1, button\_back\_2, button\_back\_3, button\_left\_1, button\_left\_2
- 1 end rabbet 6 mm, 14 deep, in top\_face at right\_end
- 2 clearance hole  $\varnothing 4.5$ , countersunk  $\varnothing 8$ , 90 deg, in bottom\_face, for a 4 x 35 screw

|          |               |
|----------|---------------|
| part     | <b>button</b> |
| of       | table         |
| make     | 10            |
| cut size | 36 x 40 x 20  |
| material | oak           |
| scale    | 1:2, mm       |

## Cut list

leg 720 x 60 x 60 mm oak, 4 pieces: leg\_front\_left, leg\_front\_right, leg\_back\_right, leg\_back\_left  
- mortise 80 x 8 mm, 53 deep, in back\_edge  
- haunch mortise 30 x 8 mm, 10 deep, in back\_edge at right\_end  
- mortise 80 x 8 mm, 53 deep, in top\_face  
- haunch mortise 30 x 8 mm, 10 deep, in top\_face at right\_end

apron\_front\_back 1182 x 120 x 20 mm oak, 2 pieces: apron\_front, apron\_back  
- haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on left\_end  
- haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on right\_end  
- 3 x mortise 42 x 8 mm, 6 deep, in bottom\_face

apron\_right\_left 732 x 120 x 20 mm oak, 2 pieces: apron\_right, apron\_left  
- haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on left\_end  
- haunched tenon 80 x 8 mm, 51 long, haunch 10 long, end mitred 45 deg towards bottom\_face, on right\_end  
- 2 x mortise 50 x 8 mm, 6 deep, in bottom\_face

top\_1\_4 1280 x 207.5 x 30 mm oak, 2 pieces: top\_1, top\_4  
- 3 x pilot hole ø3, 15 deep, drill point 118 deg, in bottom\_face, 280 and 1000 from left\_end, centered; 80 from front\_edge, for a 4 x 35 screw

top\_2\_3 1280 x 207.5 x 30 mm oak, 2 pieces: top\_2, top\_3  
- 2 x pilot hole ø3, 15 deep, drill point 118 deg, in bottom\_face, 80 and 1200 from left\_end; 50 from front\_edge, for a 4 x 35 screw

button 36 x 40 x 20 mm oak, 10 pieces: button\_front\_1, button\_front\_2, button\_front\_3, button\_right\_1, button\_right\_2, button\_back\_1, button\_back\_2, button\_back\_3, button\_left\_1, button\_left\_2  
- end rabbet 6 mm, 14 deep, in top\_face at right\_end  
- clearance hole ø4.5, countersunk ø8, 90 deg, in bottom\_face, centered, for a 4 x 35 screw

## Appendix: source

Made with woodwright 0.8.0, build123d 0.13.0, Python 3.14.8.

To make these plans again:

```
uvx --python 3.14 woodwright==0.8.0 export projects.table
```

**projects.table, in woodwright/examples/projects.py**

```
def table(
    width: float = 1200,
    depth: float = 750,
    height: float = 750,
    overhang: float = 40,
    apron_width: float = 120,
    setback: float = 3,
    top_boards: int = 4,
    buttons: tuple[int, int] = (3, 2),
    leg_stock: Stock = TABLE_LEG_STOCK,
    stock: Stock = OAK,
    top_stock: Stock = THICK_OAK,
) -> Assembly:
    """A table: legs and wide aprons, a solid top held down by buttons; outside sizes.

    `width` and `depth` are those of the frame, the top overhangs it by
    `overhang`. The aprons are wide, so their tenons are set down from the
    top of the legs, with haunches filling the wide shoulders: the legs
    keep their tops whole, and the aprons can't twist. The top is glued up
    from `top_boards` boards edge to edge, its grain from side to side. It
    is not glued to the frame: wooden buttons screwed to its underside have
    tongues in short mortises in the inside of the aprons (`buttons` along
    the front and back, and along the sides), so it can move across its
    grain: in and out of the mortises at the front and back, along them at
    the sides, where they are longer.
    """
    asm = Assembly("table", root_location=STANDING, description=TABLE_DESCRIPTION)
    _, aprons = _table_frame(
        asm,
        width,
```

```

    depth,
    height - top_stock.thickness,
    apron_width,
    setback,
    leg_stock,
    stock,
    shoulder=(10, 30),
    haunch_length=10,
)
top = _glued_top(
    asm,
    aprons[0],
    "top",
    width,
    depth,
    overhang,
    overhang,
    top_boards,
    leg_stock,
    setback,
    top_stock,
)
_buttons(asm, aprons, buttons, stock, top, overhang)
return asm

```