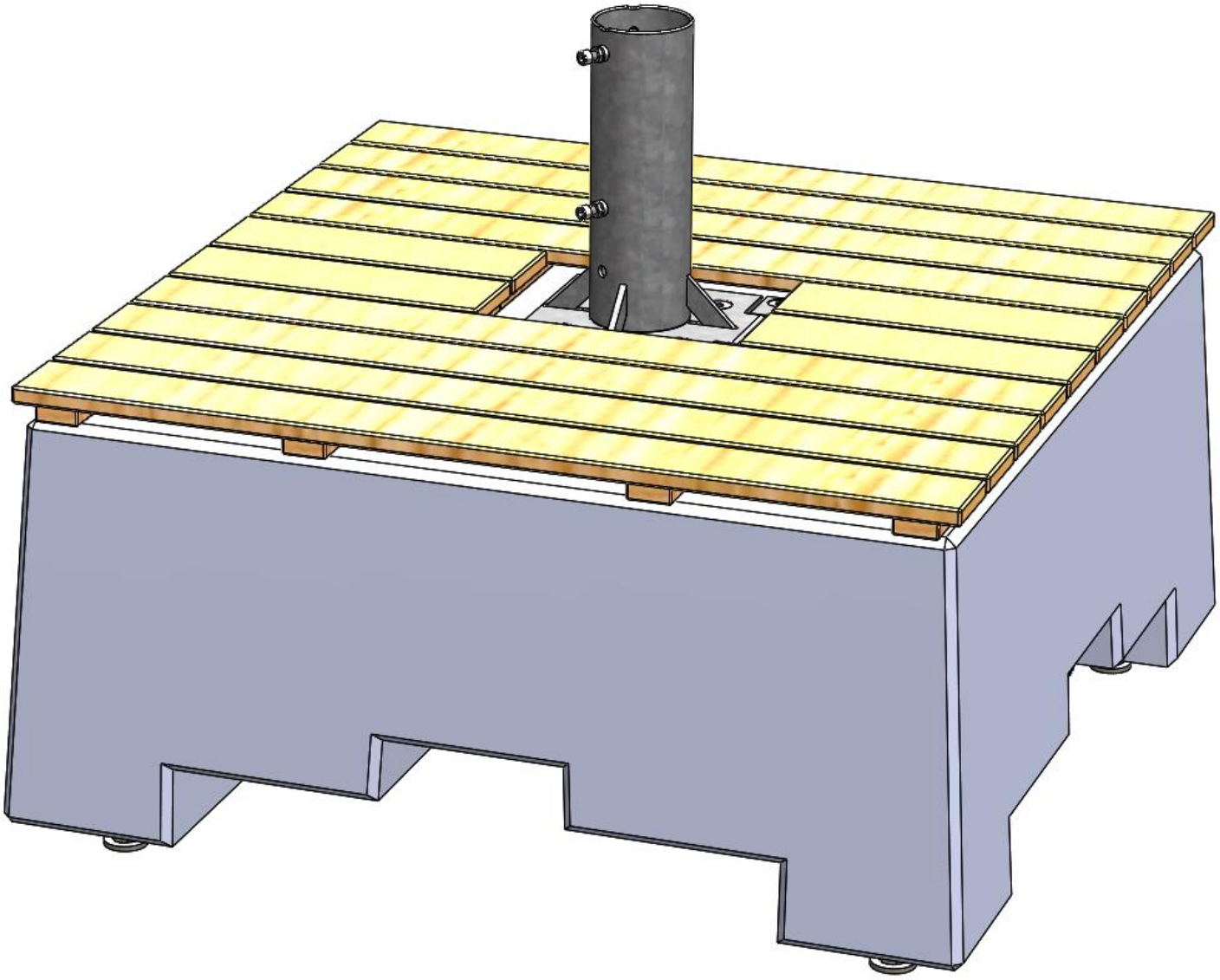
Do-It-Yourself manual
Seat plate for concrete base AZ361, AZ371

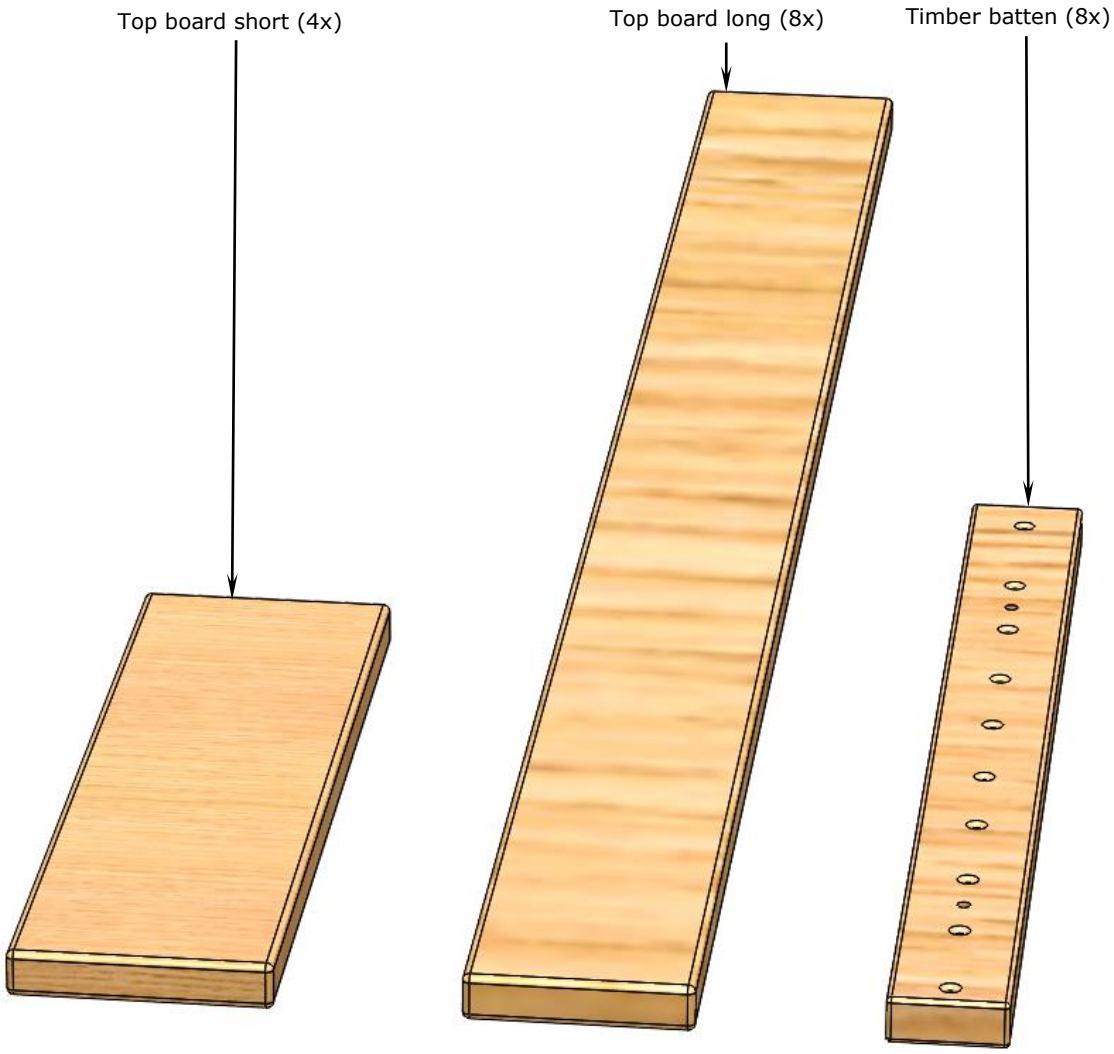


This DIY guide does not claim to explain everything down to the last detail. It is intended as a practical solution proposal. Craft skills are required. Complaints regarding the implementation cannot be accepted for this free guide.

Material

The following components are required:

1. Timber boards



- Top board short 4x 380x110 x 20 mm technical drawing, see page 14
- Top board long 8x 1.070x95 x 20 mm technical drawing, see page 15
- Timber batten 8x 528x50 x 20 mm technical drawing, see page 16

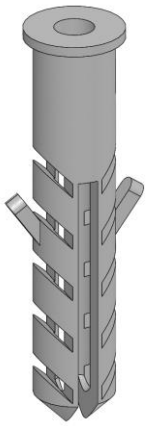
Further information:

- The wood you choose should be weather-resistant or suitable for outdoor use. Consider treating the surface with oil or wax.
- HPL panels can also be used. However, these instructions are geared towards wood.

Sources of supply:

- Local carpenter or hardware store.

2. Expansion plug or nylon plug with collar



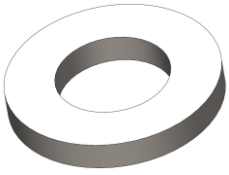
- 16x Ø8x40 mm

Further information:
- Select the "plug with collar" version, as the collar protects against stagnant water between the concrete base and the seat plate.
- The "plug without collar" version leads to stagnant water, meaning weather resistance is not ensured. If only a "plug without collar" is available, the function of the collar can also be achieved using a plastic washer. See the following point 3.

Sources of supply:
- Local carpenter or hardware store.

Sources of supply, examples:
- Würth
  Buy Nylon anchor (09038 40) | WÜRTH
- Fischer
  Expansion plug SX Plus - fischer international

3. Plastic washers



- 16x
- Inner Ø: min. 6 mm
- Outer Ø: approx. 15 mm

Further information:
- The inner diameter must match the chipboard screws used to mount the seat panel onto the concrete base.
- Minimum thickness of 2 mm to ensure sufficient spacing between the concrete base and the seat panel.

Sources of supply:
- Local carpenter or hardware store.

Sources of supply, examples:
- Amazon
  Washers M6 Plastic Polyamide Blank (White) – DIN 9021 – Washers – Washers – Flat Washers (Size: M6; Quantity: 50 Pieces) : Amazon.de: DIY & Tools

4. Countersunk chipboard screws

- 16 x 5 x 65 mm
- 80 x 4 x 35 mm (depending on the thickness of the wooden boards, use 4 × 30 mm if necessary)

Specification:
- Cross recess (Phillips) or Torx, as required
- Galvanised or stainless steel A4 (AISI 316), as required

Further information:
- In most cases, it is also possible to purchase complete sets at hardware stores that include expansion plugs and matching screws. This should be taken into account in the subsequent assembly steps.

Sources of supply:
- Local carpenter or hardware store.

Prepare the reinforcement batten and top boards

1. Take a reinforcement batten (528×50 × 20 mm) and mark the drilling axes with a pencil and a folding rule. You can also use a marking gauge or a marking ruler as an aid for marking. For technical drawing, see page 16.

2. Drill through the marked axes using a Ø 4.5 mm drill or a Ø 5.5 mm drill. To prevent the wooden batten from tearing out on the underside, place it on a wooden support and clamp it firmly to the work surface.

3. For deburring: Countersink the drill holes on both sides using a countersink bit.

4. Take the other reinforcement battens (528×50 × 20 mm) and carry out steps 1 to 3 as described above.

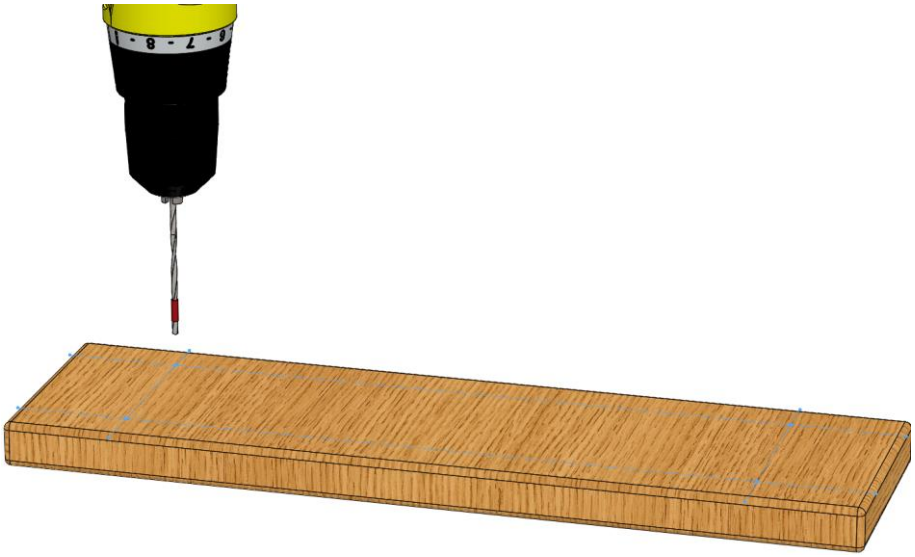
5. Once you have produced the first reinforcement batten, you can also use it as a template for the other reinforcement battens.

6. Take a "short top board" (380×110 × 20 mm) and mark the drilling axes using a pencil and a folding rule. Technical drawing, see page 14.

7. Drill the marked axes on the top board to a depth of approx. 10 mm using a Ø 2 mm drill bit. To visually mark the depth limit, you can wrap adhesive tape around the drill bit. These holes then serve as a centering aid for the screws and the subsequent assembly.

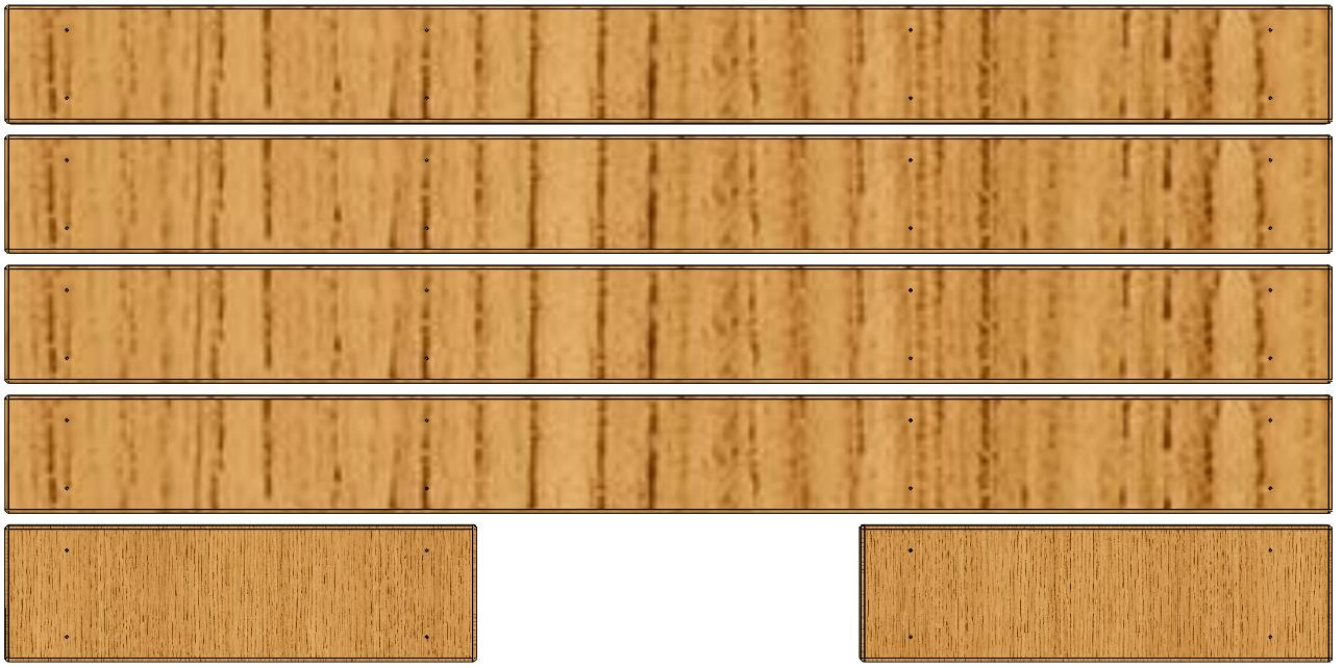
8. Drill the marked axes on the top board to a depth of approx. 10 mm using a Ø 2 mm drill bit. To visually mark the depth limit, you can wrap adhesive tape around the drill bit. These holes then serve as a centering aid for the screws and the subsequent assembly.

9. Take the other "short top boards" (380×110 × 20 mm) and the "long top boards" (1070×95 × 20 mm) and drill the Ø 2 mm holes in the same way.

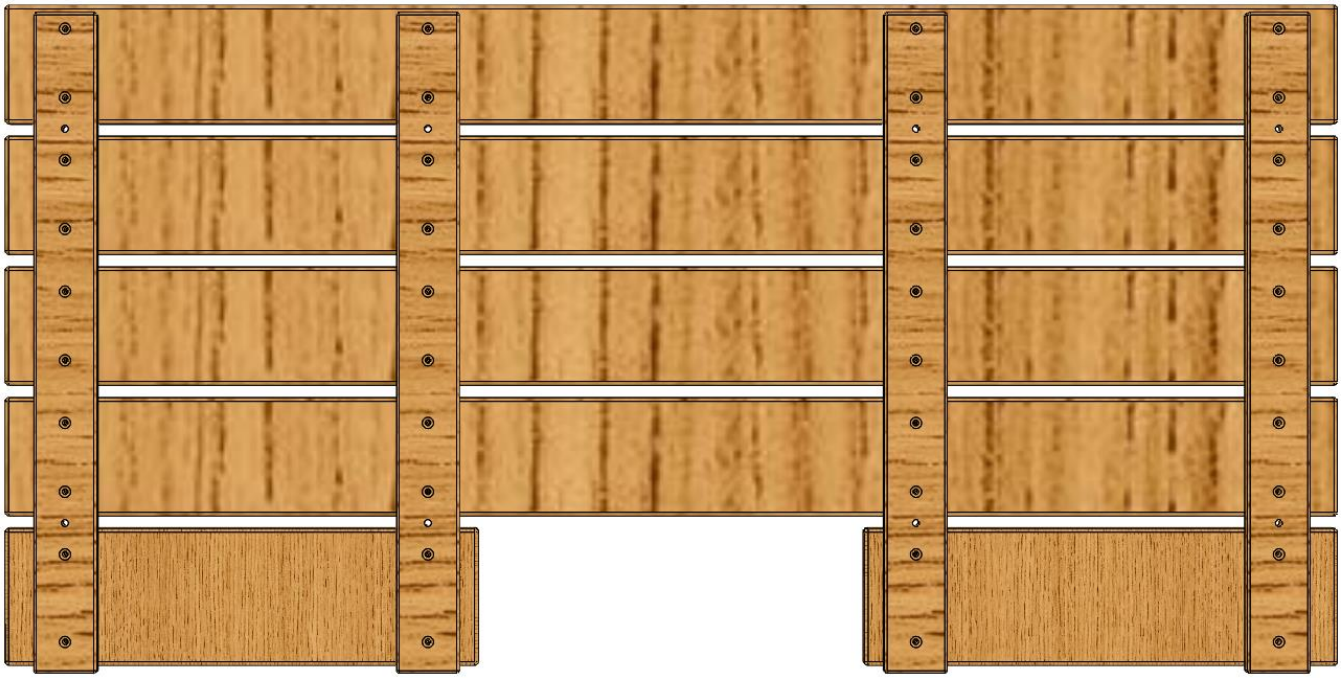


Install the seat cover

1. Place the short top boards and the long top boards on a clean table as shown below. For technical drawing, see page 13.
   Assembly tip: Use an M10 screw on the left and right as spacers between the boards.

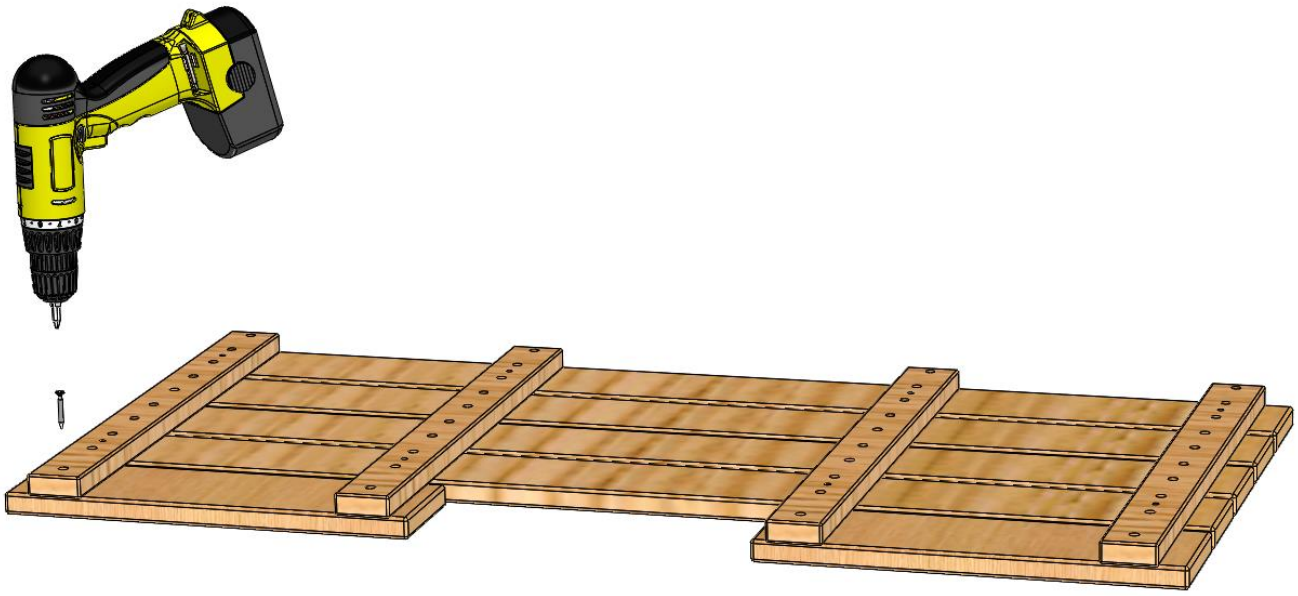


2. Take four reinforcement battens (528 × 50 × 20 mm) and position them on the previously placed short and long top boards.

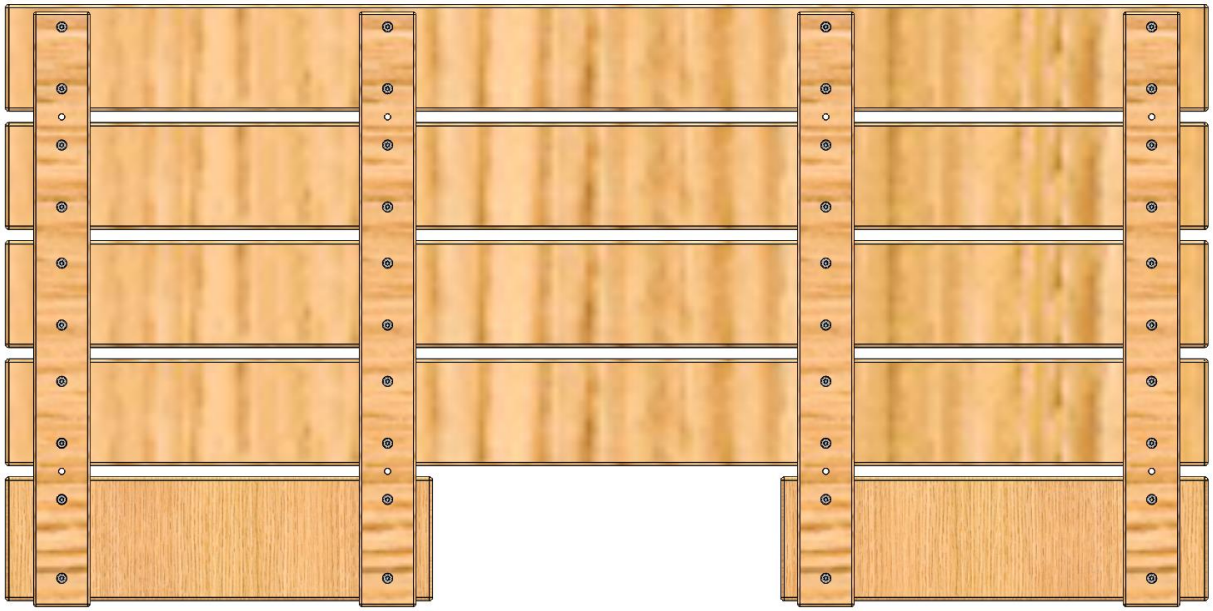


3. Insert the chipboard screws through the through holes in the reinforcement battens. The screw tips must engage in the Ø 2 mm holes of the top boards.

4. Using a cordless screwdriver and chipboard screws 4 × 35 mm (40 pcs), screw the reinforcement battens onto the seat cover.



5. Take the remaining top boards and carry out steps 1 to 4 for the next seat cover.

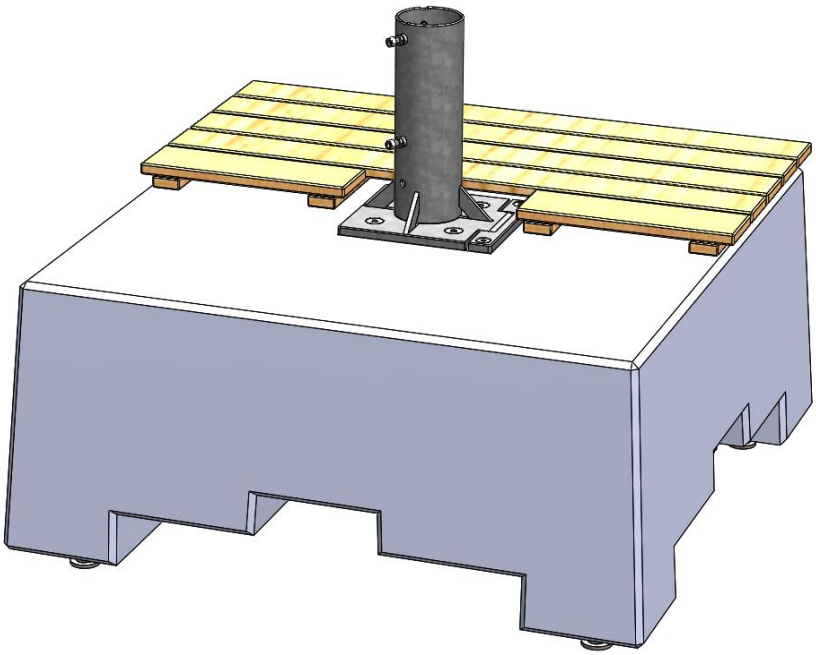


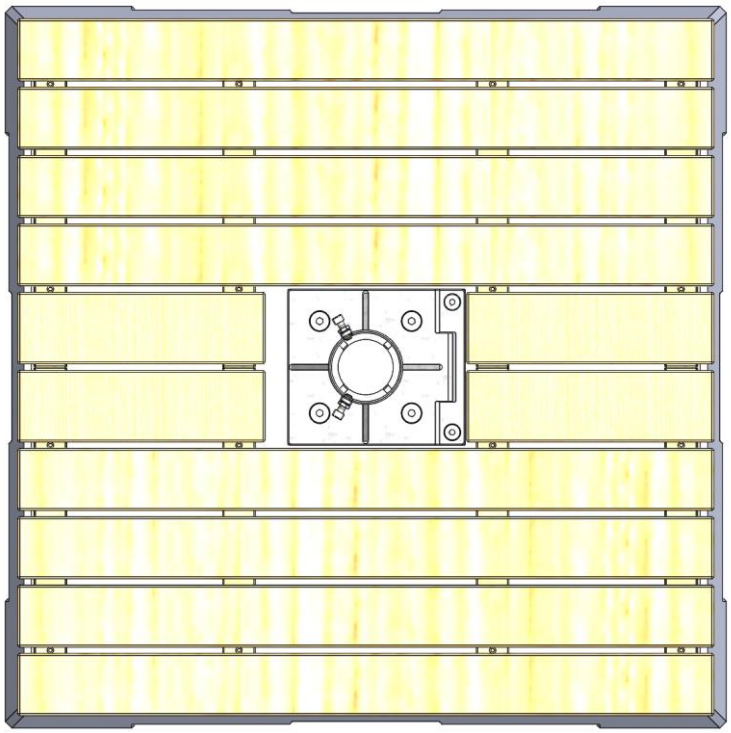
6. Treat the boards, if possible and depending on the type of wood, with a suitable oil or wood stain.

Assembly

Install the seat panels onto the concrete base in the sequence shown.

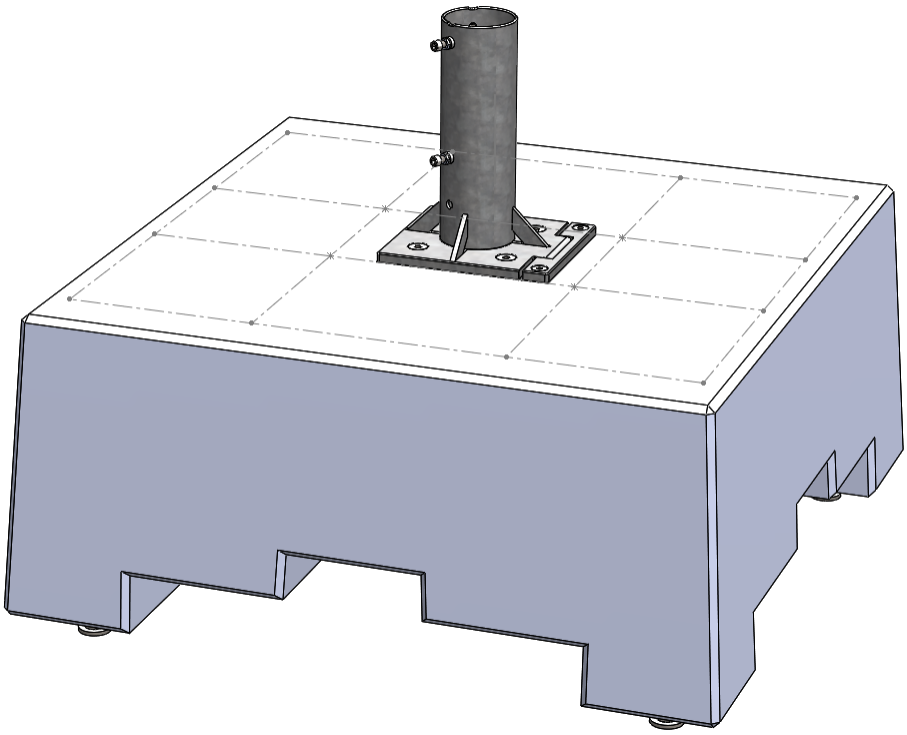
1. Place both seat panel elements onto the concrete base. Align them parallel to the outer edges and centered to the middle.



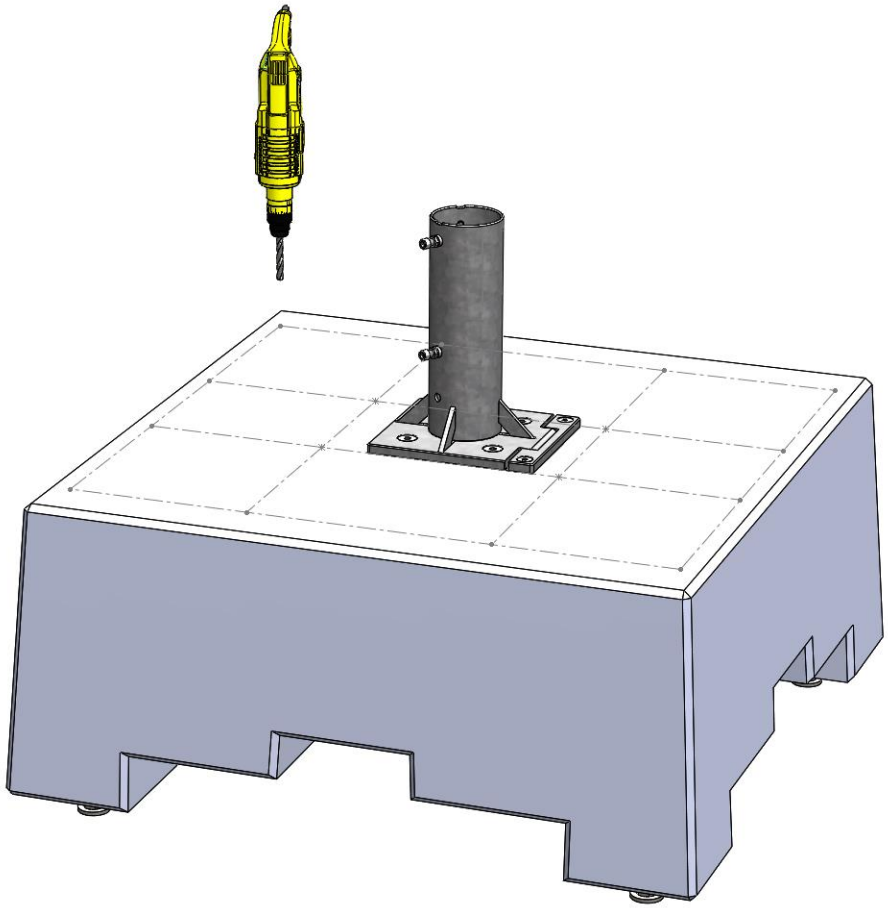


2. After positioning the seat panel elements, mark the drilling axes for the expansion plug on the concrete base using a pencil.

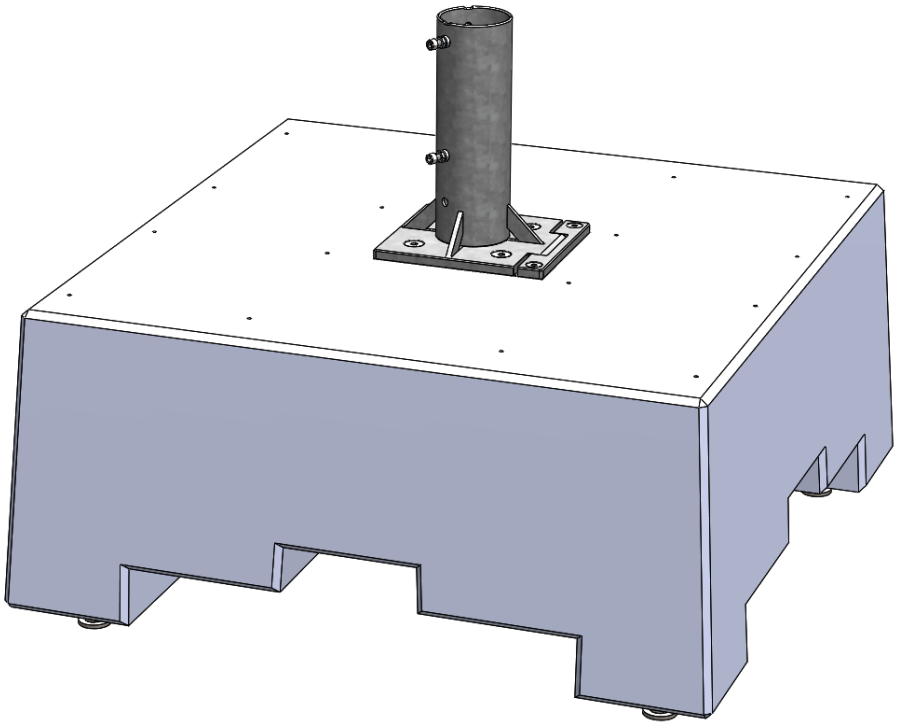
3. Remove the seat panel elements from the concrete base to carry out the next steps.



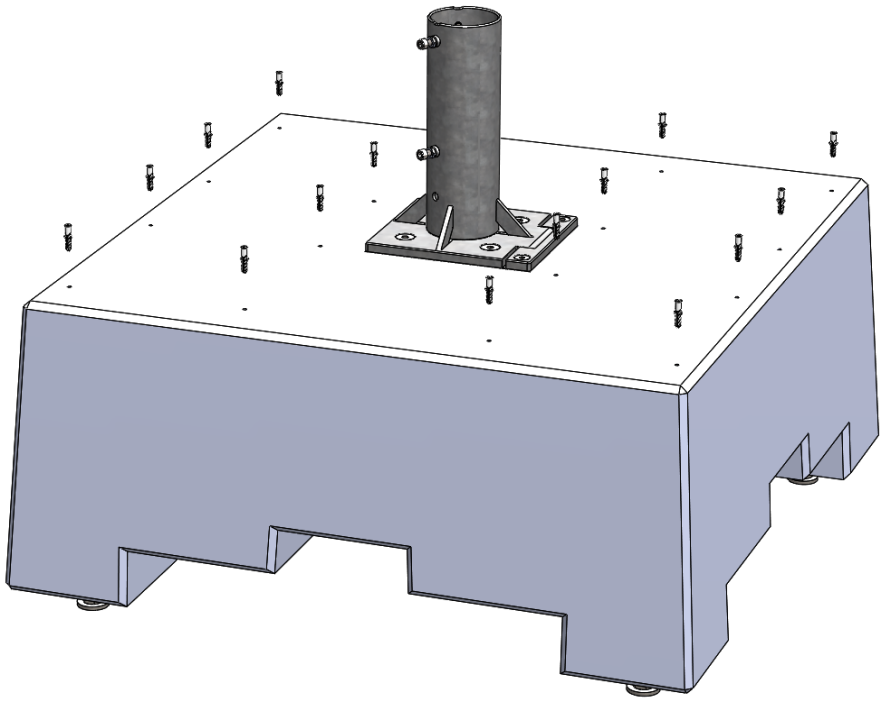
4. Using a hammer drill and an Ø 8 mm concrete drill, drill the previously marked holes approximately 45 mm deep into the concrete base.



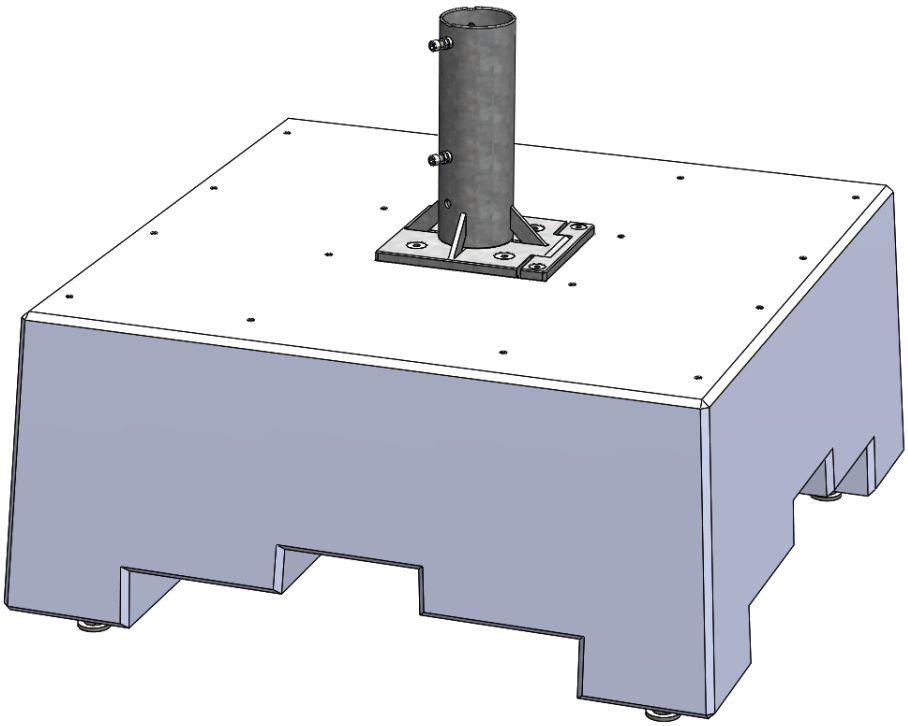
5. Use a vacuum cleaner to clean the drill holes and the surface.



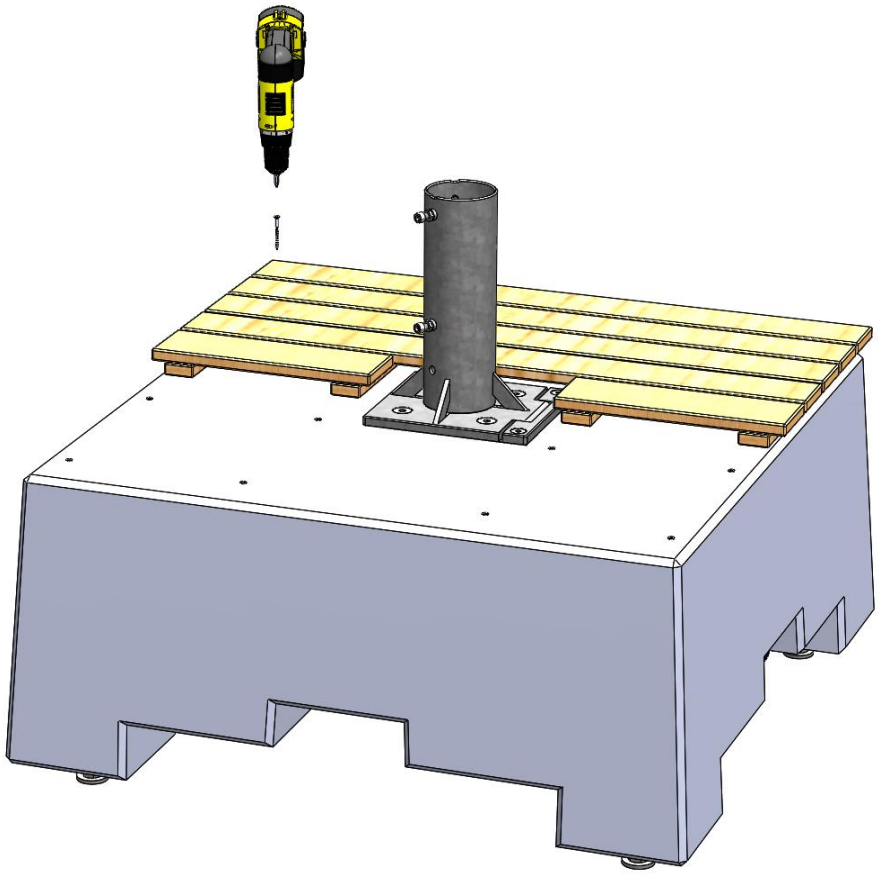
6. Insert the expansion plugs flush into the drill holes of the concrete base. If necessary, use a hammer to drive the expansion plug in until they are flush with the surface.



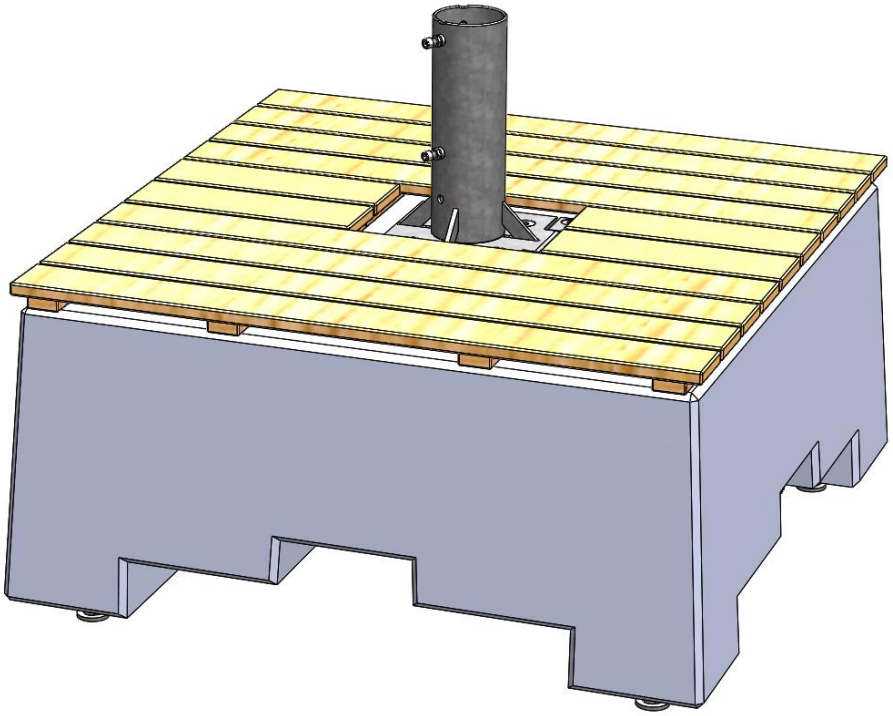
7. Intermediate step, in case you do not have expansion plugs with collar:
   To prevent water accumulation between the concrete base and the seat panel, place the plastic washers onto the expansion plugs.



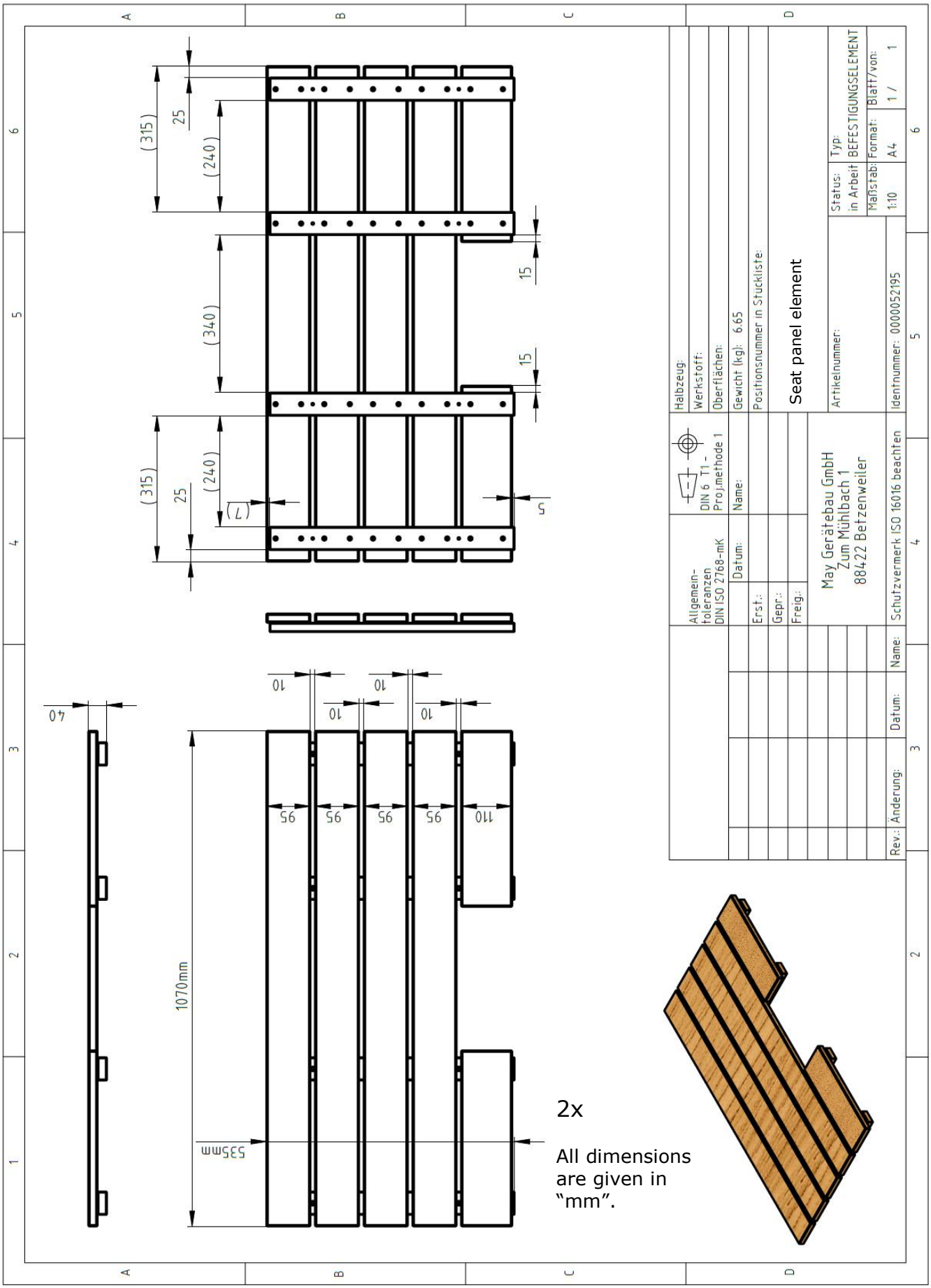
8. Place the first seat panel element onto the concrete base. Using a cordless drill/driver and countersunk chipboard screws Ø 5 × 65 mm, fasten the seat panel to the concrete base.

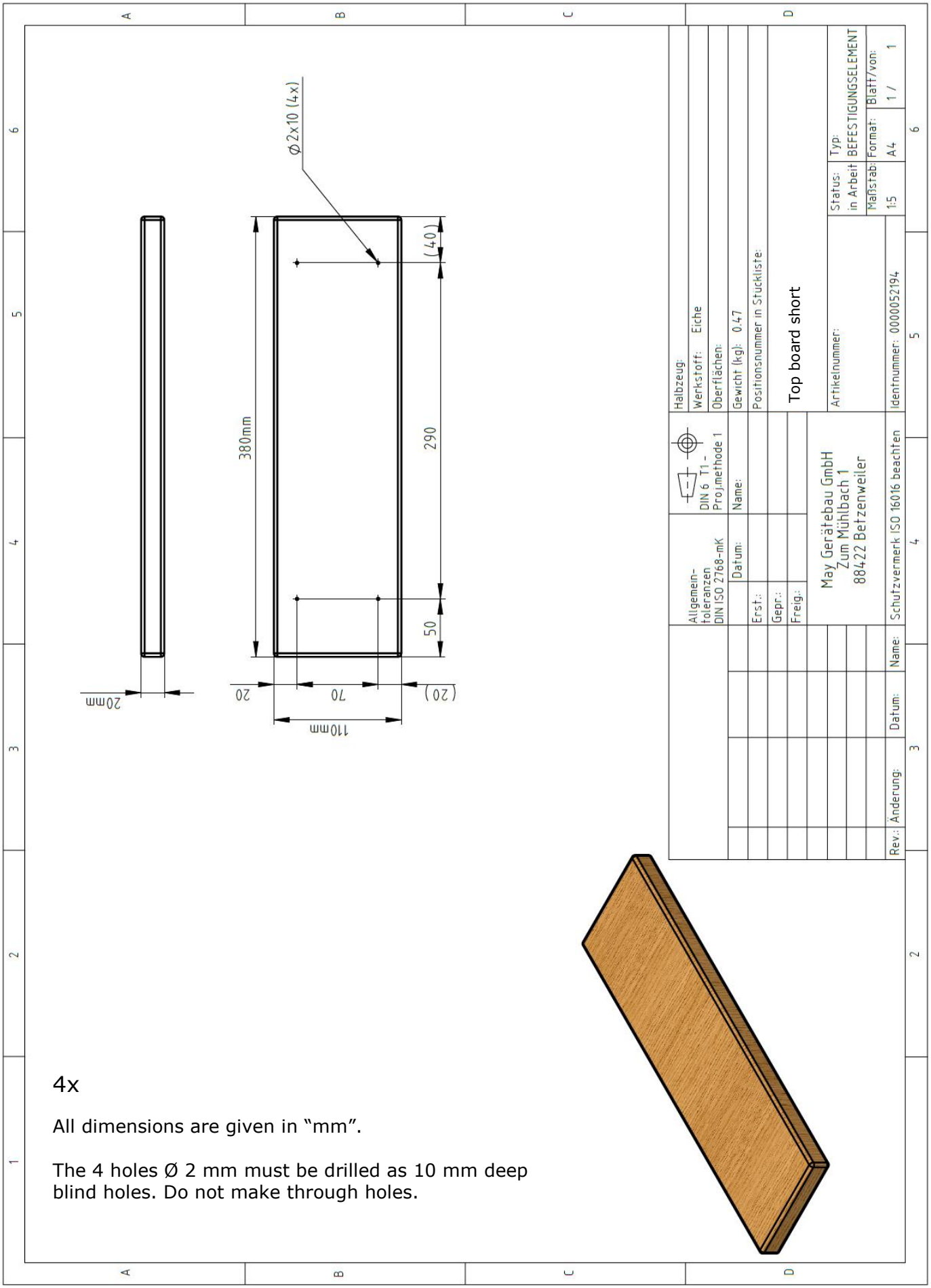


9. Repeat the procedure with the second seat panel element.



Technical drawings

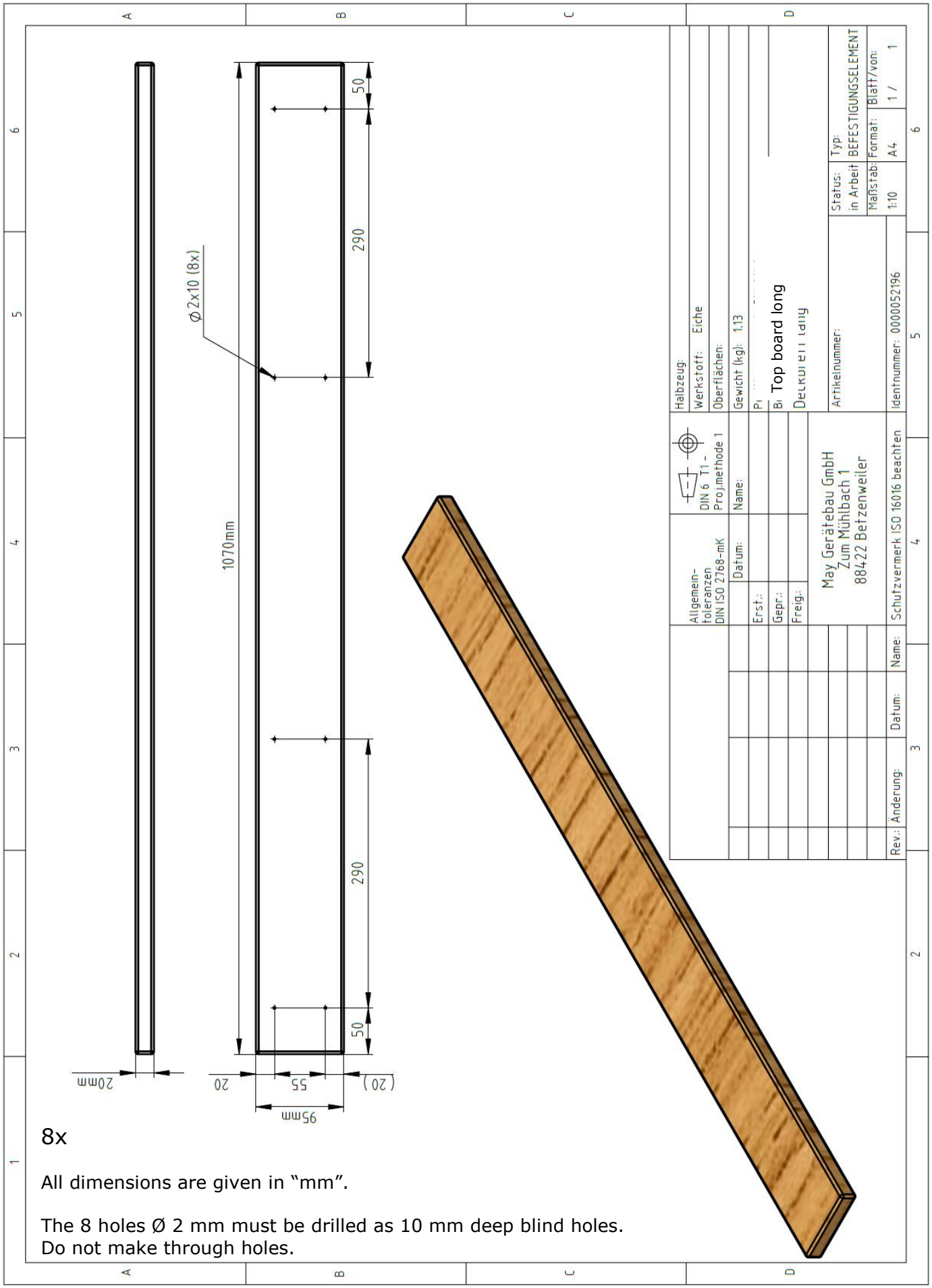




4x

All dimensions are given in "mm".

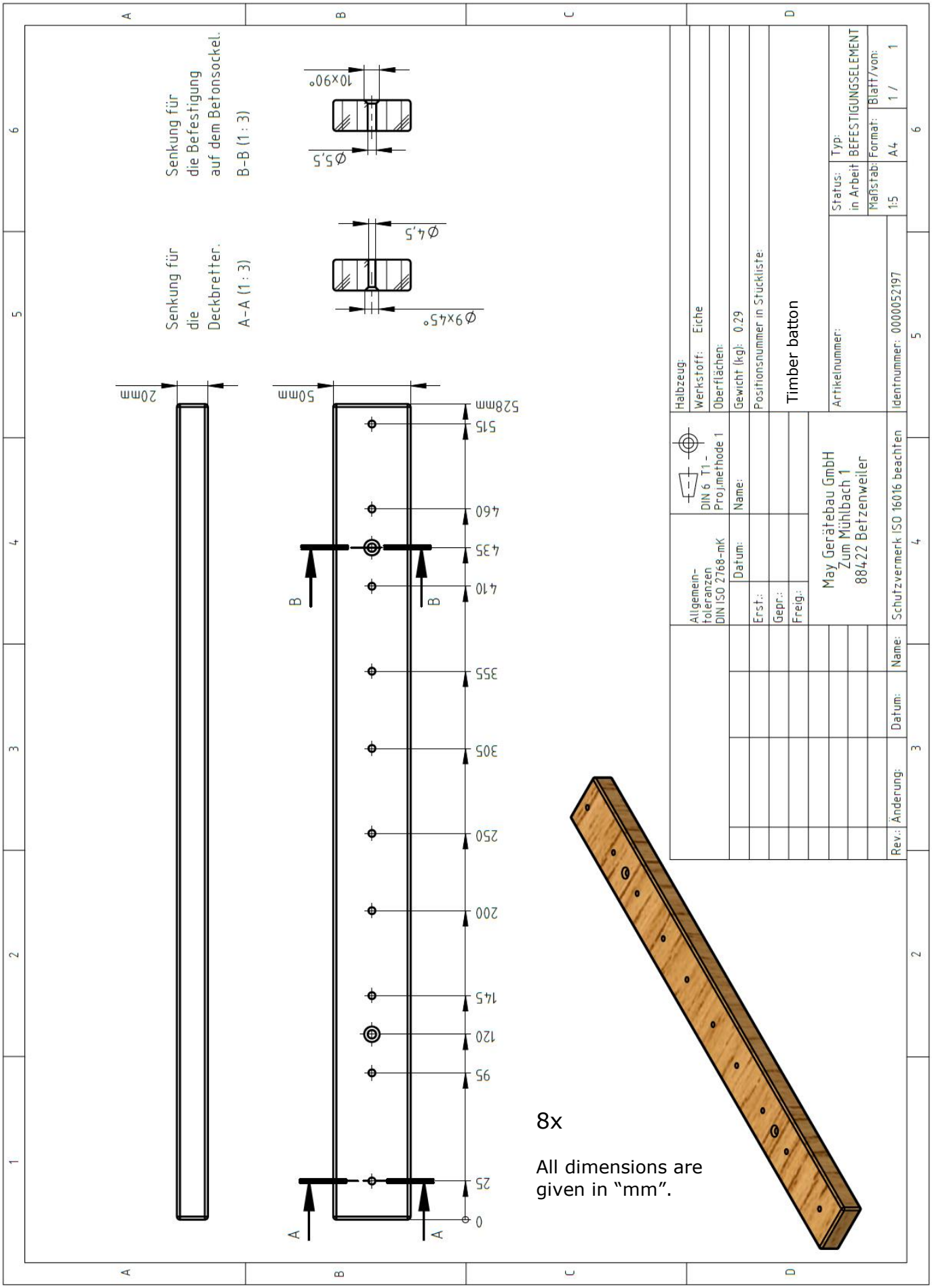
The 4 holes Ø 2 mm must be drilled as 10 mm deep blind holes. Do not make through holes.



8x

All dimensions are given in "mm".

The 8 holes Ø 2 mm must be drilled as 10 mm deep blind holes.
Do not make through holes.


Senkung für
die Befestigung
auf dem Betonsockel.
B-B (1 : 3)
Senkung für
die
Deckbretter.
A-A (1 : 3)
Timber batton
8x
All dimensions are
given in "mm".