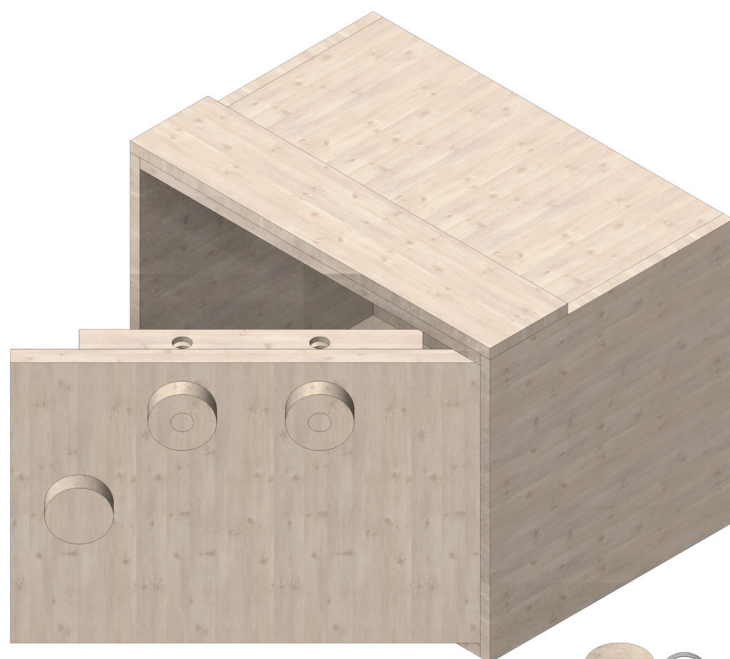
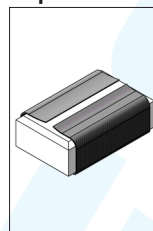


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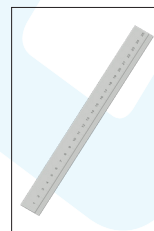
# Magnetic lock safe



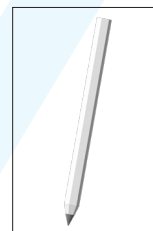
## Required Tools:



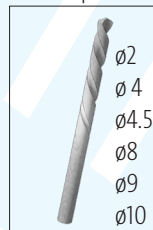
Sand Paper



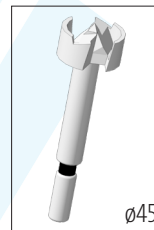
Ruler



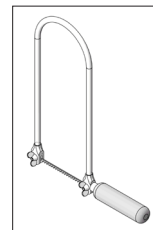
Pencil



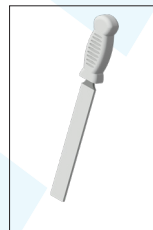
Twist drill



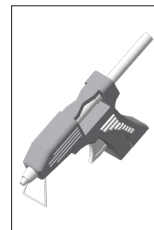
Forstner Drill



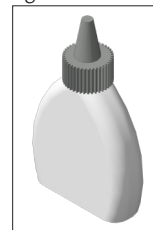
Jigsaw



Grater



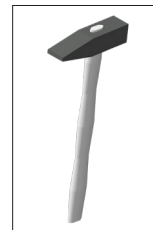
Hot Glue



Wood Glue



Combination pliers

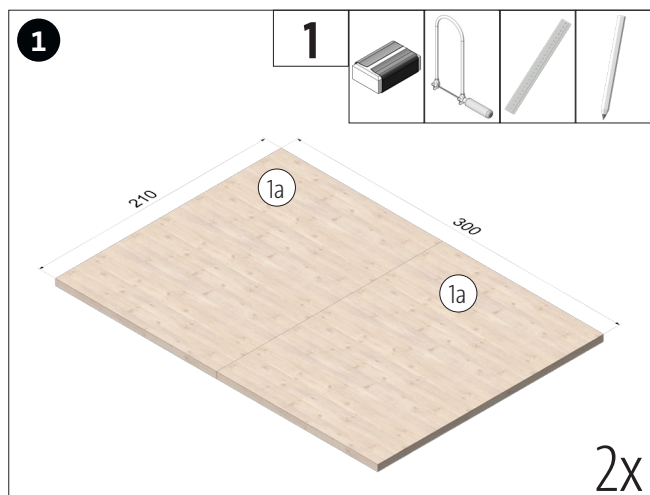


Hammer

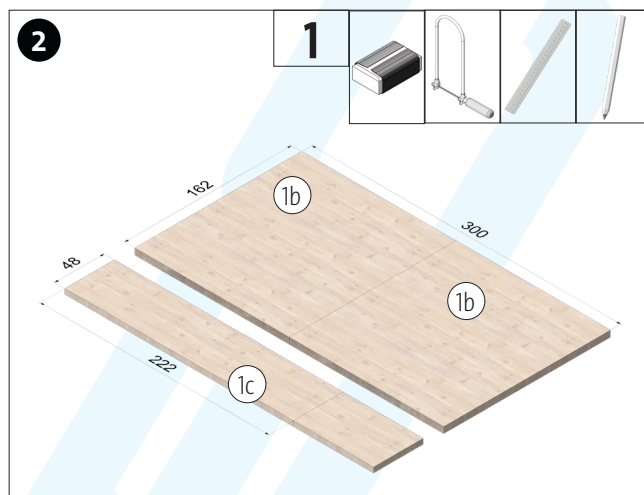
### Note:

After completion, the OPITEC factory packs are not toys that are generally commercially available, but teaching and learning materials to support educational work. This kit may only be built and operated by children and young people under the guidance and supervision of knowledgeable adults. Not suitable for children under 36 months. Danger of suffocation!

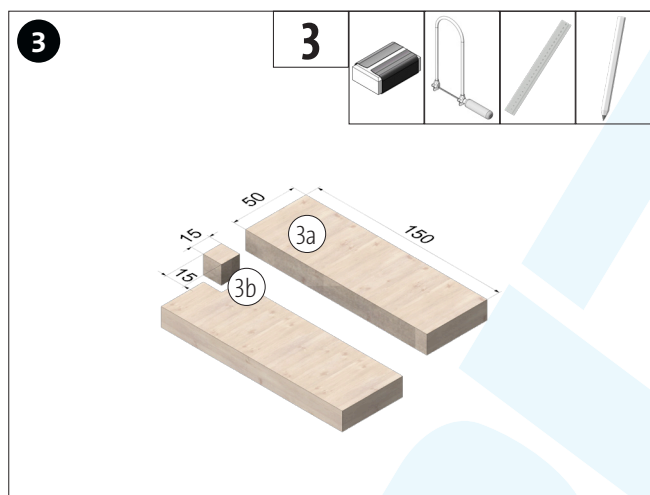
Stocklist	Quantity	Dimensions (mm)	Description	Part-No.
Plywood panel	3	300x210x6	Housing	1
Plywood panel	1	210x150x10	door	2
Plywood panel	1	150x100x15	door, housing	3
Wooden wheel	4	ø30x10	lock, key, handle	4
Wooden wheel	4	ø40x10	Lock	5
Wooden round stick	1	ø4x50	door	6
Wooden round stick	1	ø10x200	Lock	7
Disc Magnet	1	ø8x4	Key	8
Bar magnet	2	ø8x10	Lock	9
eyebolt	1		Key	10
Key Ring	1	ø20	Key	11



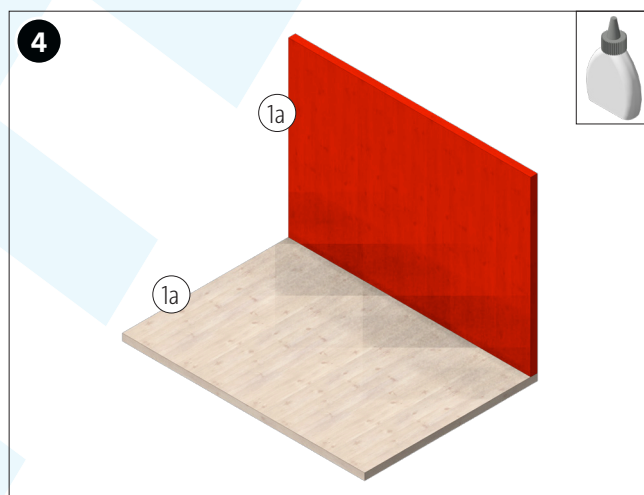
Transfer the dimensions to the plywood (1) according to the cutting plan (A). Then cut out the plywood. Clean saw cuts.



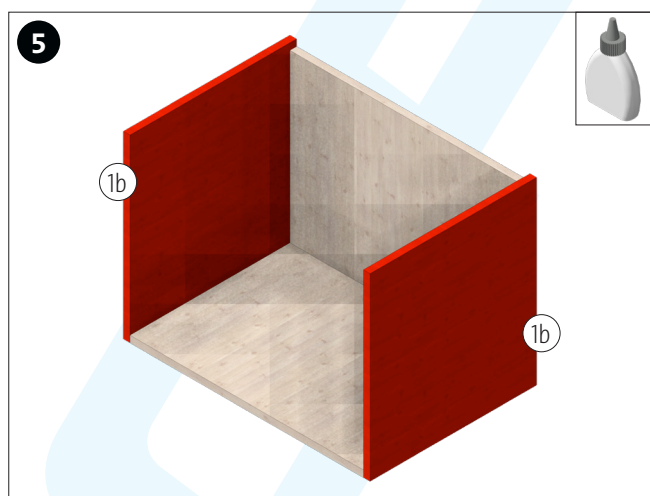
Transfer the dimensions to the plywood (1) according to the cutting plan (B). Then cut out the plywood. Clean saw cuts.



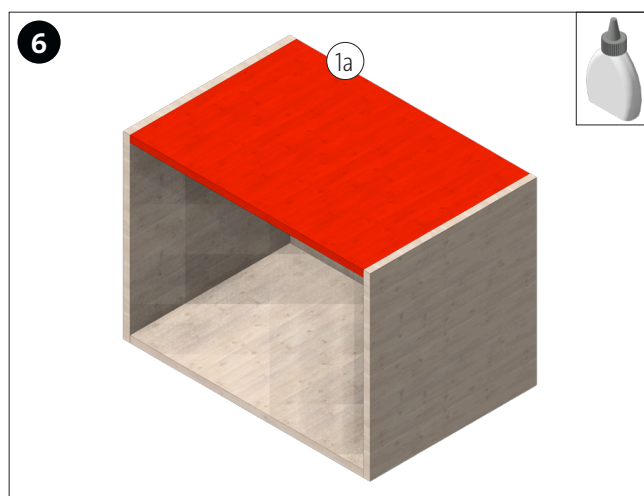
Transfer the dimensions to the plywood (3) according to the cutting plan (C). Then cut out the plywood. Clean saw cuts.



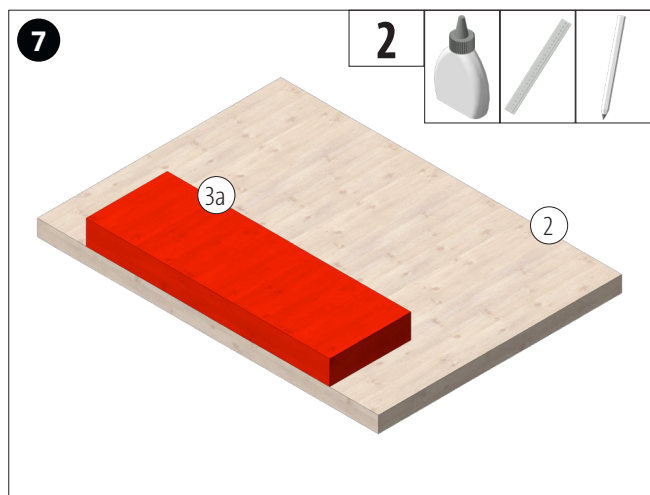
Glue the plywood (1a) vertically as shown.



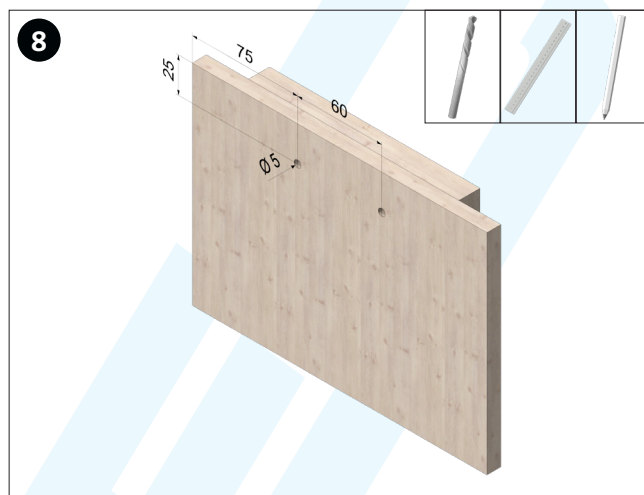
Glue on the side parts (1b).



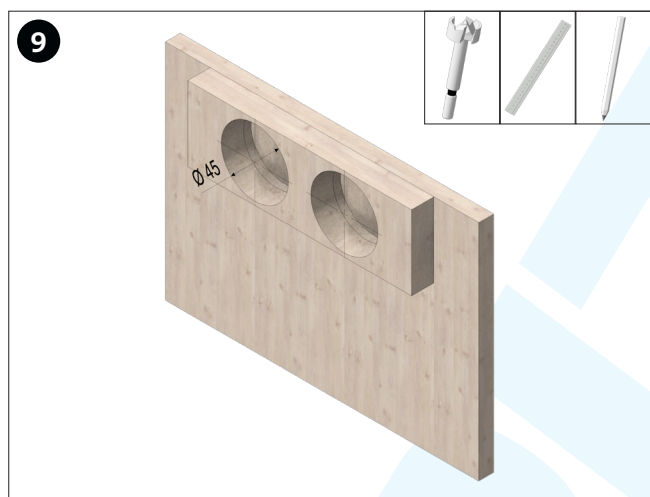
Glue on the plywood (1a).



Glue the plywood (3a) centered on the plywood (2).



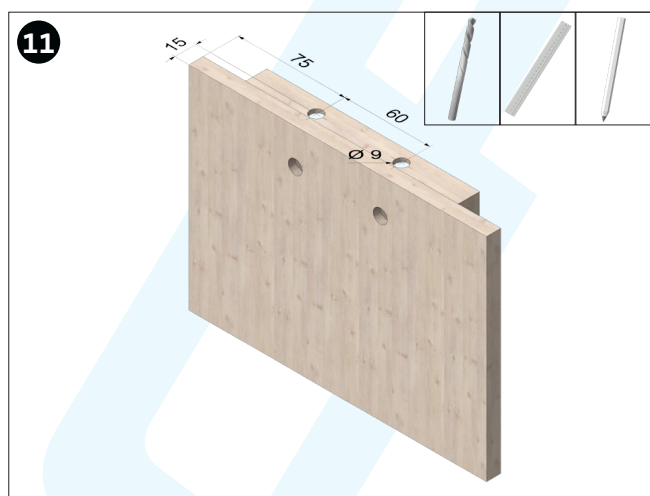
Transfer the dimensions to the plywood and then drill through.



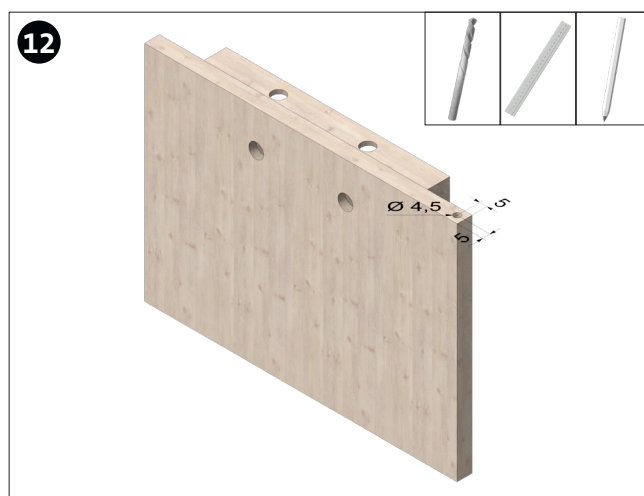
Drill out the holes on the back to a depth of 20 mm.



Drill out the holes from the front.



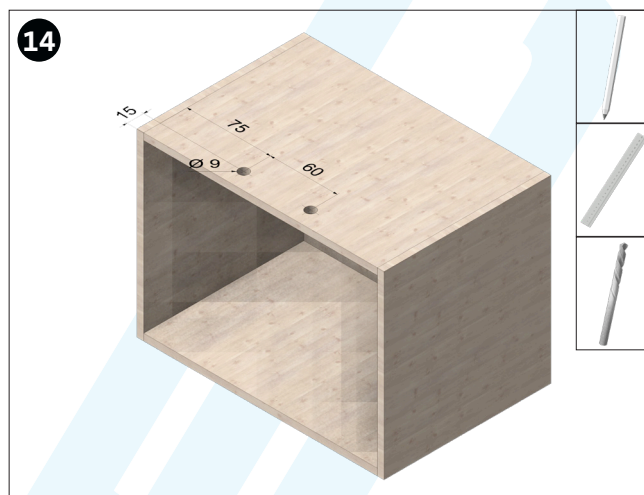
Transfer the dimensions to the plywood and then drill through.



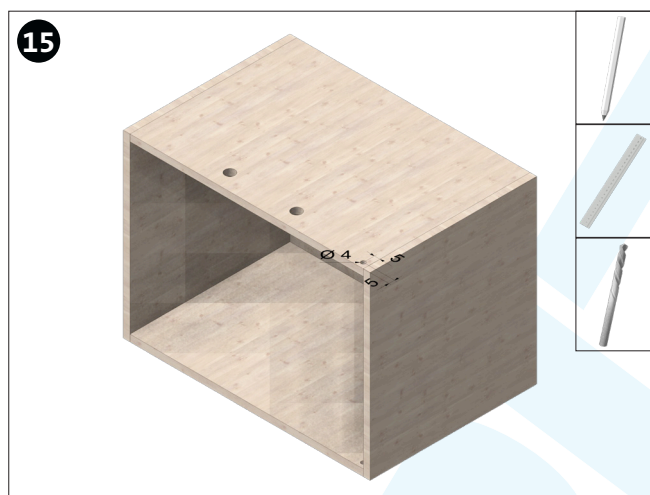
Transfer the measurements to the plywood. Drill a 20 mm deep hole in the plywood from above and below, as shown.



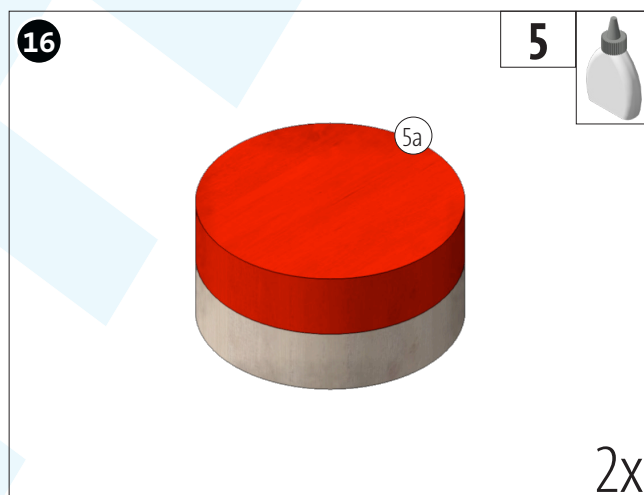
Bevel the plywood as shown.



Transfer the dimensions to the housing and then drill through.



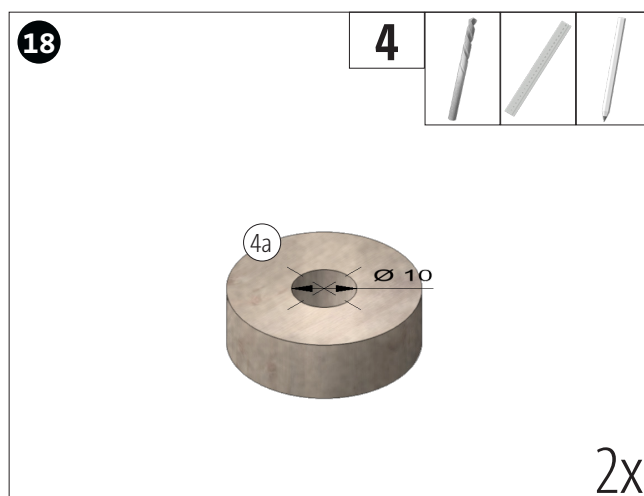
Transfer the dimensions to the housing and then drill through from above and below.



Glue the wooden wheels (5) together.

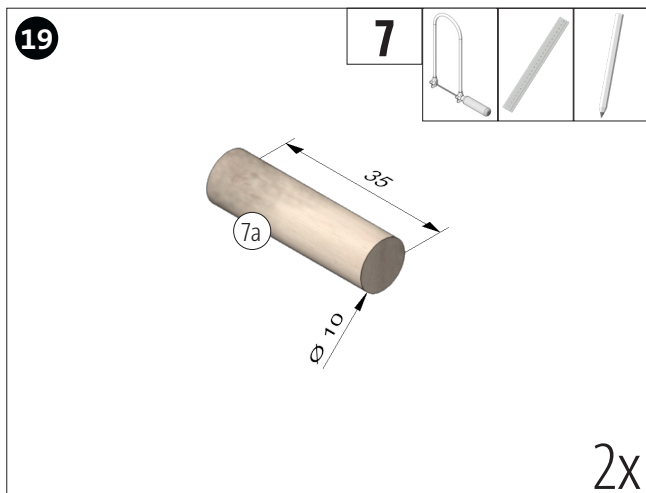


Drill through the glued wooden wheel (5a).

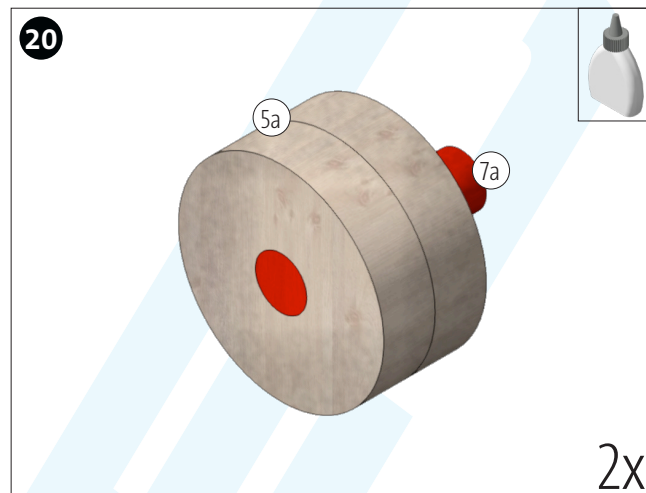


Drill through the wooden wheel (4).

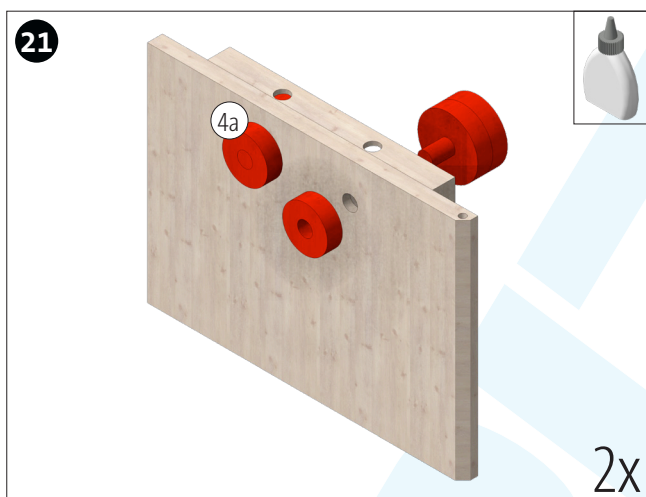




Cut the round wooden stick (7) to length. Clean saw cuts.

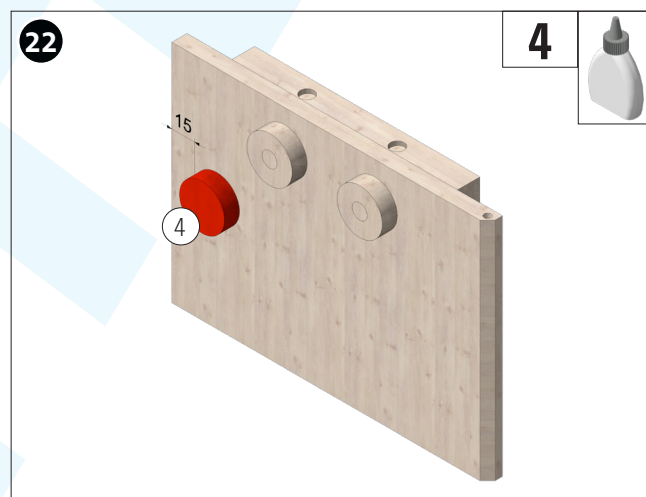


Glue the wooden rod (7a) into the wooden wheel (5a).

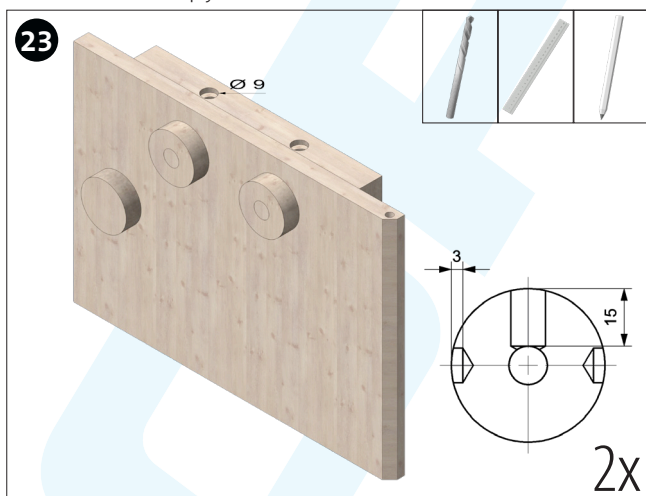


Glue the wooden wheel (4a) to the wooden rod as shown.

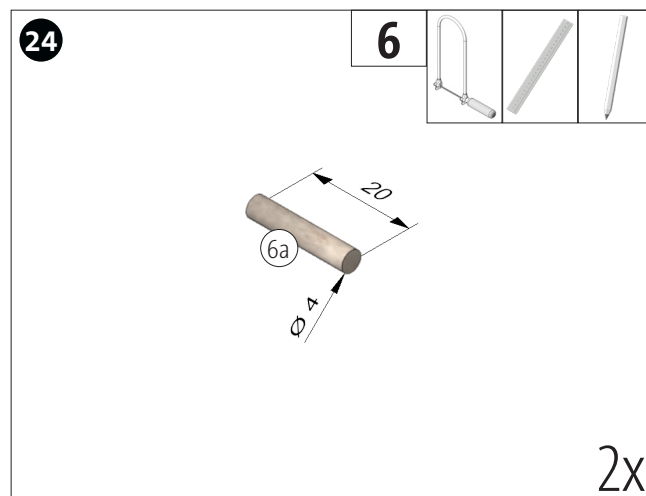
**NOTICE:** Turn the wooden wheel a few times after it has dried so that it does not stick to the plywood board!



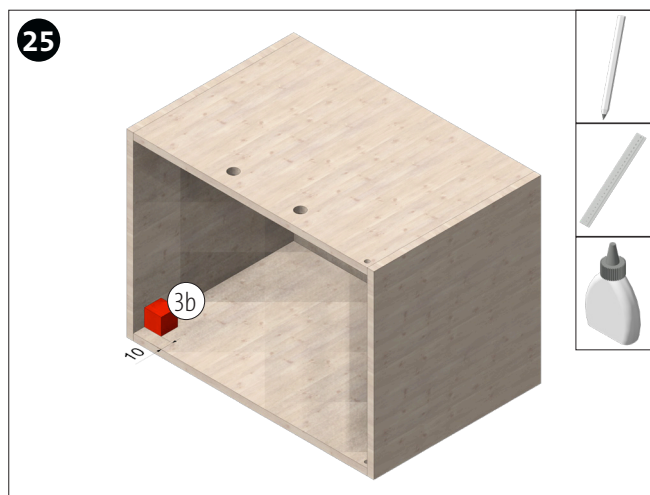
Glue the wooden wheel (4) centered.



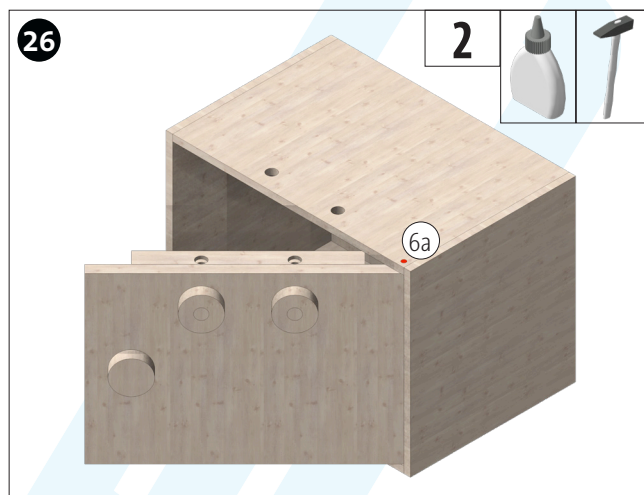
Drill the glued wooden wheel (5a) according to the drilling template (D).



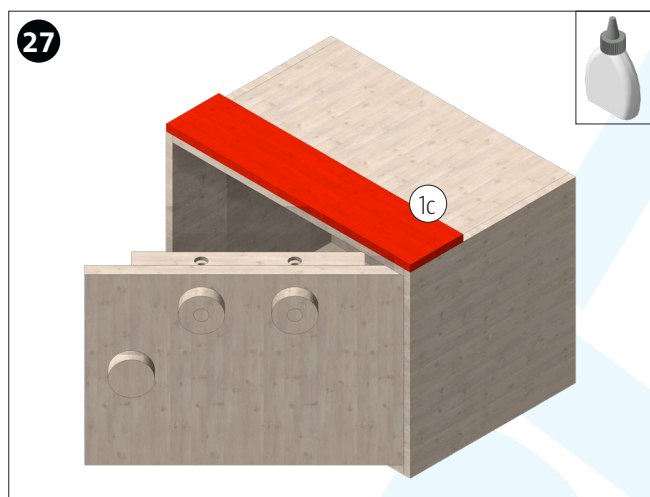
Cut the round wooden stick (6) to length. Clean saw cuts.



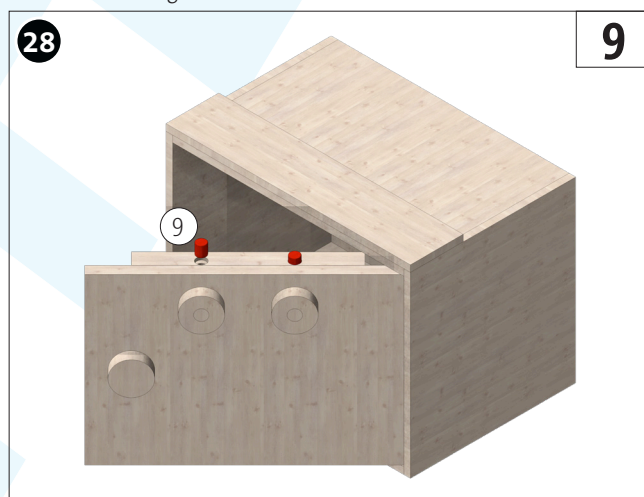
Glue in the wooden cubes (3b).



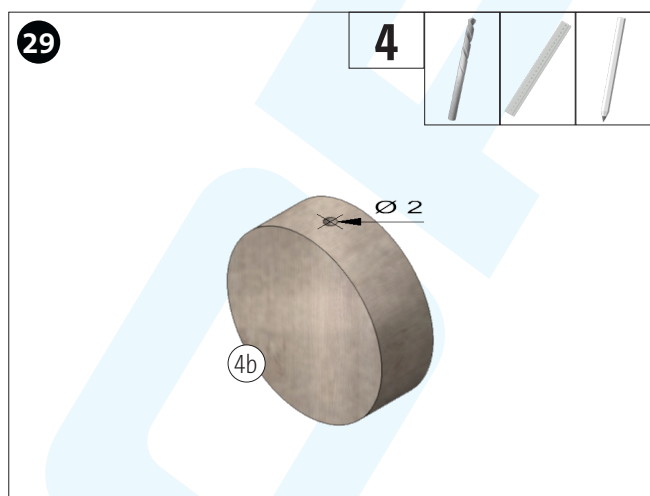
Glue in the round wooden stick (6a) from above and below as shown.  
**ATTENTION:** Only glue the round wooden stick into the housing! The door must not be glued.



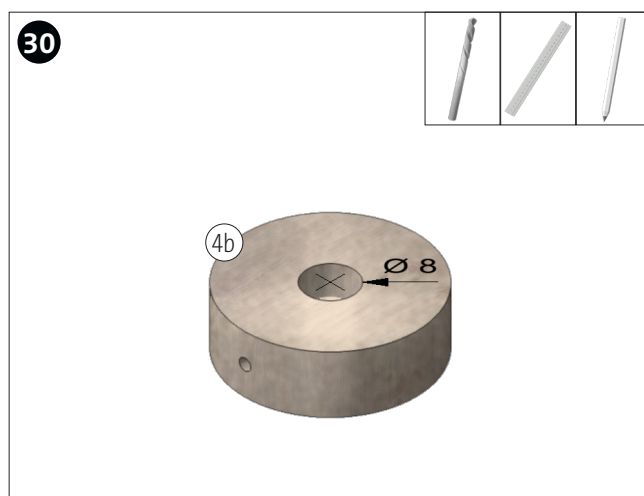
Glue on the plywood panel (1c).



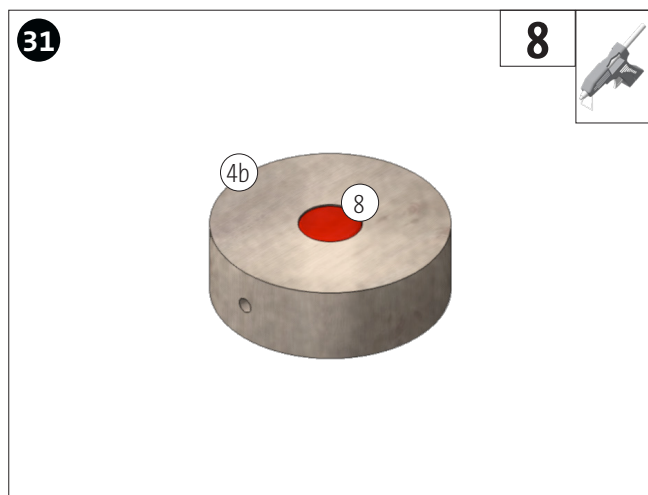
Insert bar magnets (9) into the hole.  
**NOTICE:** Make sure that the poles of the two magnets point in the same direction!



Drill a 10mm hole in the wooden wheel (4) as shown.

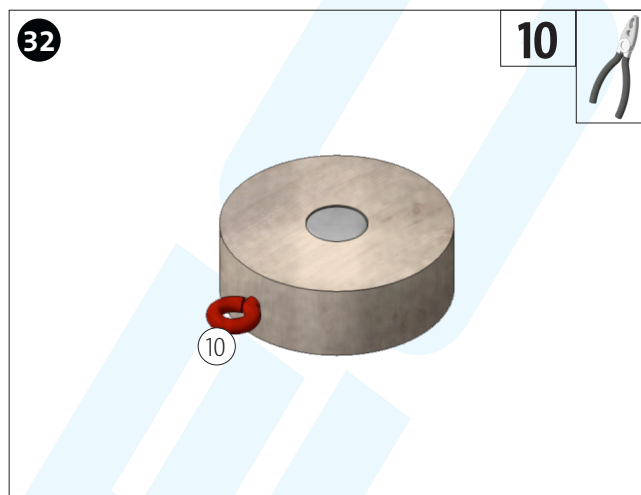


Drill the wooden wheel (4b) 5 mm deep.



Glue the disc magnet (8) into the hole.

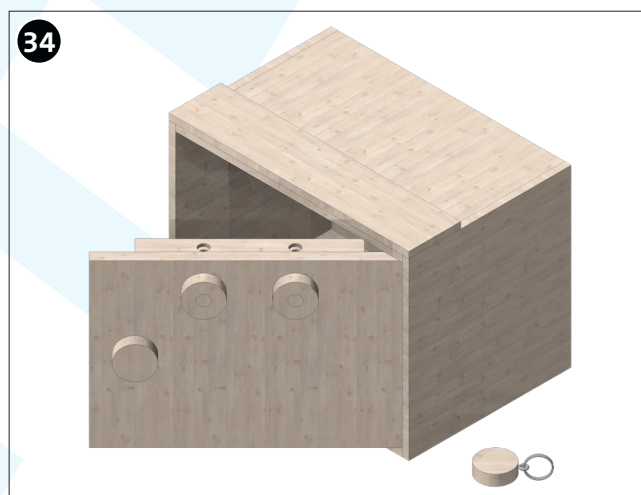
**NOTICE:** Glue the magnet in so that it attracts the bar magnets when the wooden wheel is placed on the housing!



Screw the screw hook (10) into the hole.



Screw in the key ring (11).



**FINISHED!**

# Operation manual

The "key" is required to lock the safe. To do this, the door is first closed and the bar magnets are individually pulled up into the hole in the housing with the key. The rotary wheels must then be turned at the same time so that the deep hole is on the opposite side to the bar magnets. The safe is locked! (see figure 2)

If the safe is then to be opened, the bar magnets must be tightened with the key and the turning wheels must be positioned so that the bar magnets can fall completely into the hole. The vault is open! (see Figure 3)

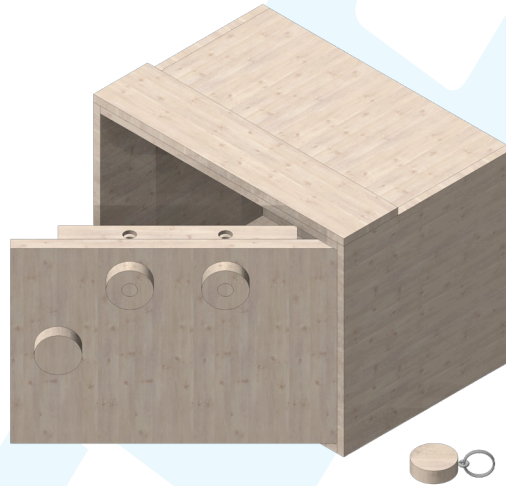


Illustration 1

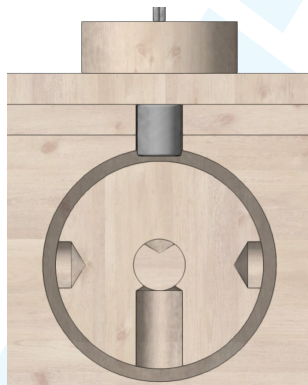


Illustration 2

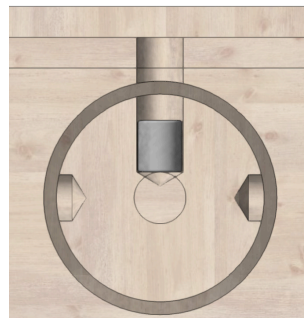


Illustration 3



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A (1:2)

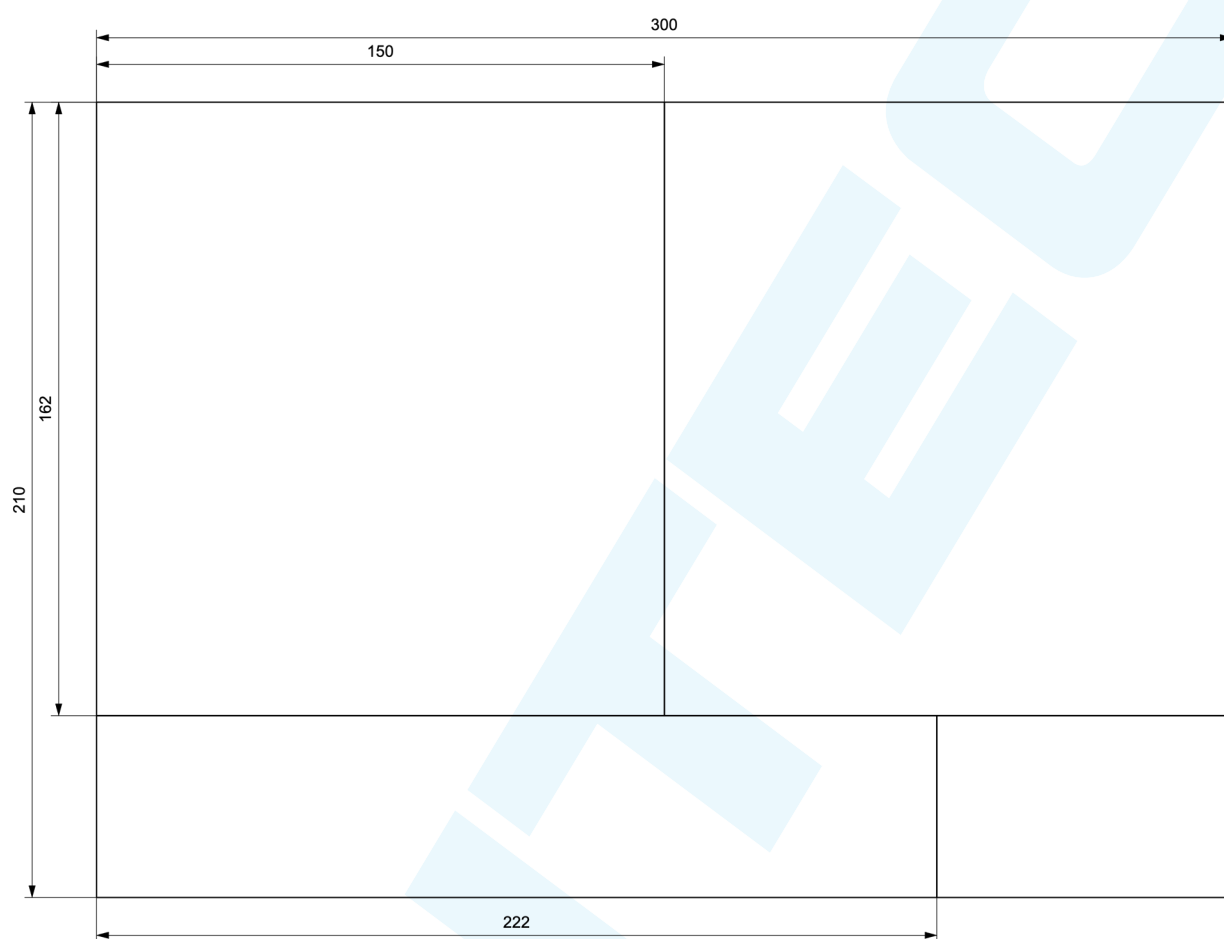


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B (1:2)



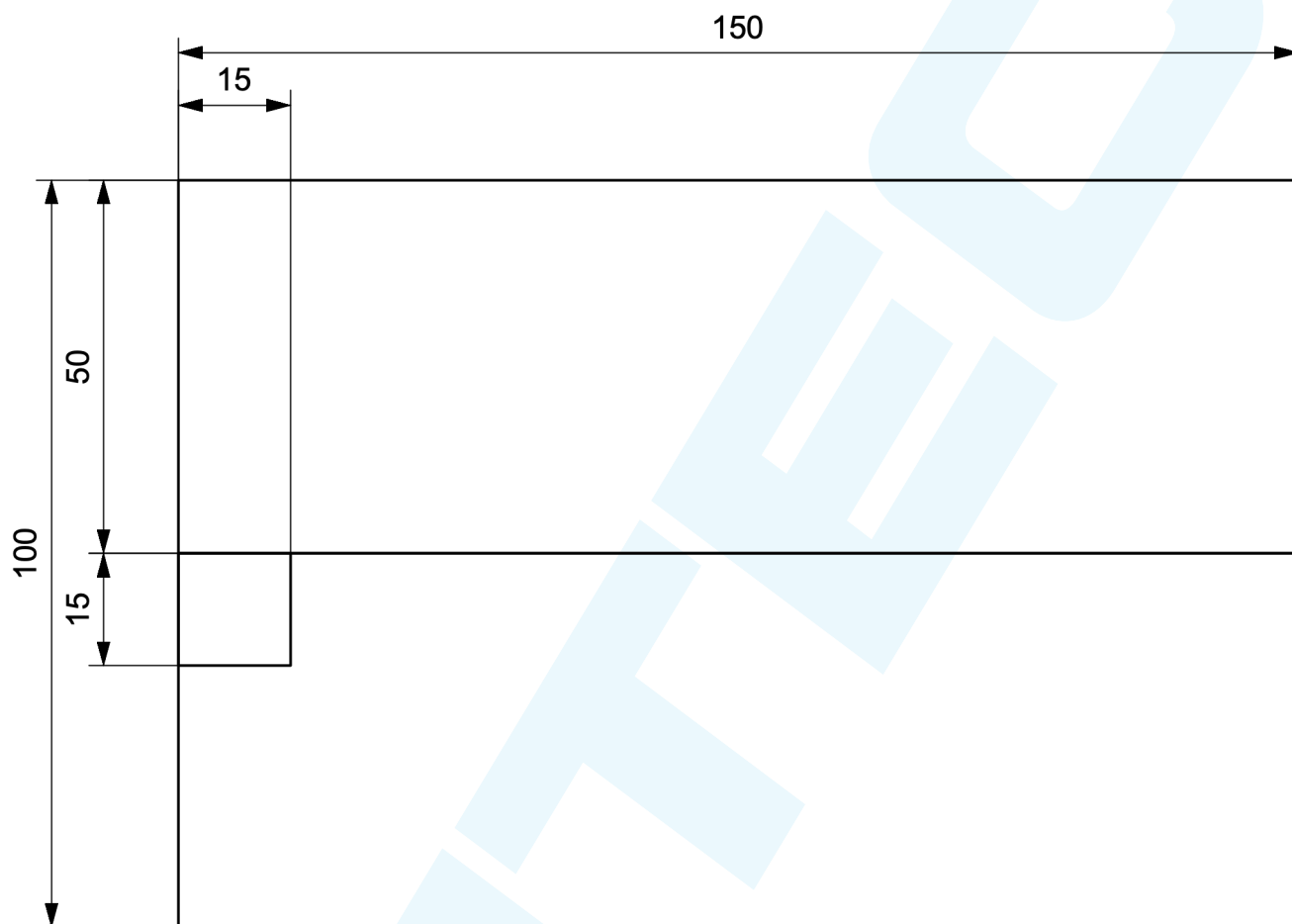
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C (1:1)



D (1:1)

