

MICRO HOUSE

A one bedroom low-energy home

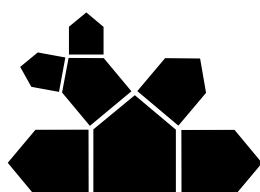
Floor area 37.5m²

Fabric U value 0.14 W/m²K

Typical annual energy use unknown

Typical assembly time unknown

Difficulty level 3



Micro House
UK

v1.0

08/2016

Architecture 00



IMPORTANT

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Information is shared without any kind of warranty or guarantee

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Users must satisfy themselves regarding the application of statutory requirements, local building regulations, codes, insurance certification or other requirements or recommendations relevant to the location where and materials with which they plan to build. Where appropriate you should always seek the advice of a relevant qualified professional.

You are responsible for using the information in a safe way

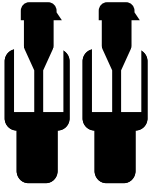
Users are responsible for ensuring that information they use or cause to be used is used in a way which is safe, and is not likely to cause harm during or after manufacturing, construction, use or disassembly.

Personal protective equipment (PPE)



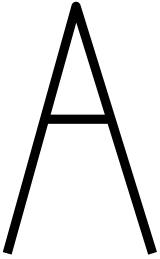
All construction is dangerous. Always wear hard hats, eye protection, ear protection (malleting gets very loud), gloves, high visibility outfits and steel-capped boots. Where working at height is required, use a harness. Establish a 'safety first' culture on site, and encourage the continuous identification of hazards.

Difficulty level 3



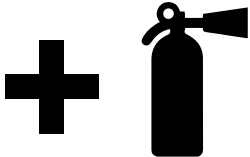
Most of this assembly can be safely performed by a small team of any able-bodied people without formal construction skills. However, some tasks may require further knowledge, for example plumbing, mechanical ventilation and preparation of foundations. Other services, such as electrical installations and structural / building regulations certification can only be done or approved by a certified professionals. Consult a professional if you are unsure.

Working at height



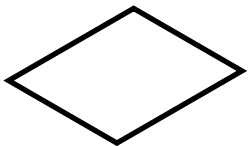
This assembly requires a limited amount of working at height to complete the roof. Do a risk assessment, and use appropriate stepladder and / or scaffolding as well as Step Ups to minimise the risk of falling. If in doubt, refer to www.hse.gov.uk

First Aid



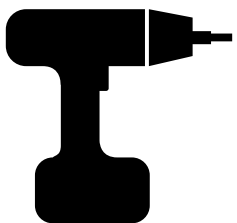
Before commencing, check there is a First Aid kit and appropriate Fire Extinguisher on site, and if possible, identify a qualified first-aider. Make sure you record important contact and medical information from everyone on site.

Site preparation



Make sure passers-by can't wander onto your site. It's also a good idea to warn neighbours in advance that there'll be some noise, especially from malleting.

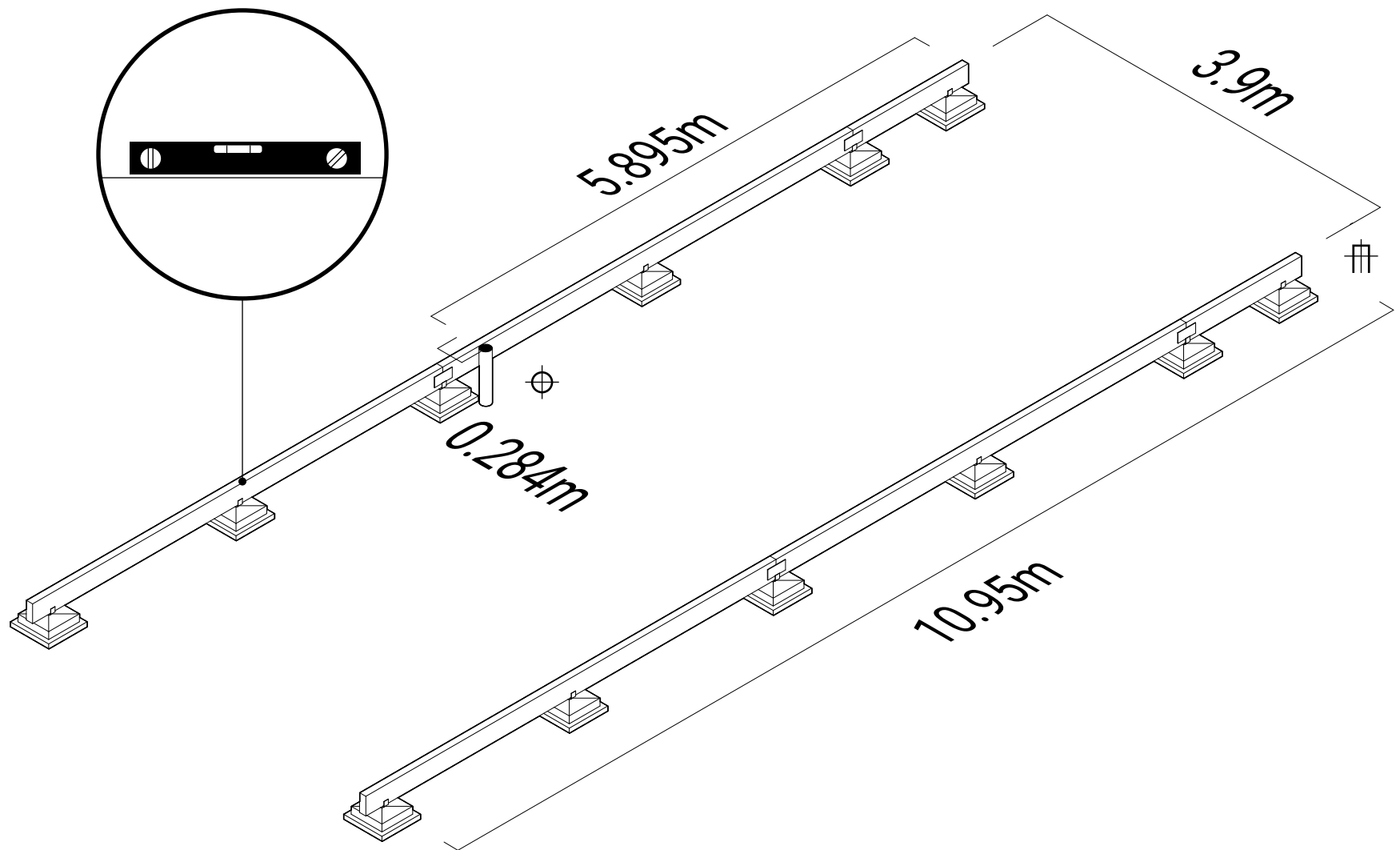
Tools



For this assembly you will need:

- 1 x Step ladder (8ft or 10ft)
- 5 x Step Ups
- 1 x Mobile scaffolding
- 1 x Roof ladder
- 1 x Large tarpaulin rain cover
- 1 x Marquee (or other enclosed area) to store parts dry and off the ground.
- 5+ Mallets
- 2+ Electric screwdrivers with as many spare batteries as possible
- 1x Electric drill
- 1x Electric jigsaw
- 1x hand screw driver (to use as a lever)
- 1 x Staple gun
- 2 x Scissors / knife
- 4 x Large clamps
- 1 x Plasterboard filler trowel

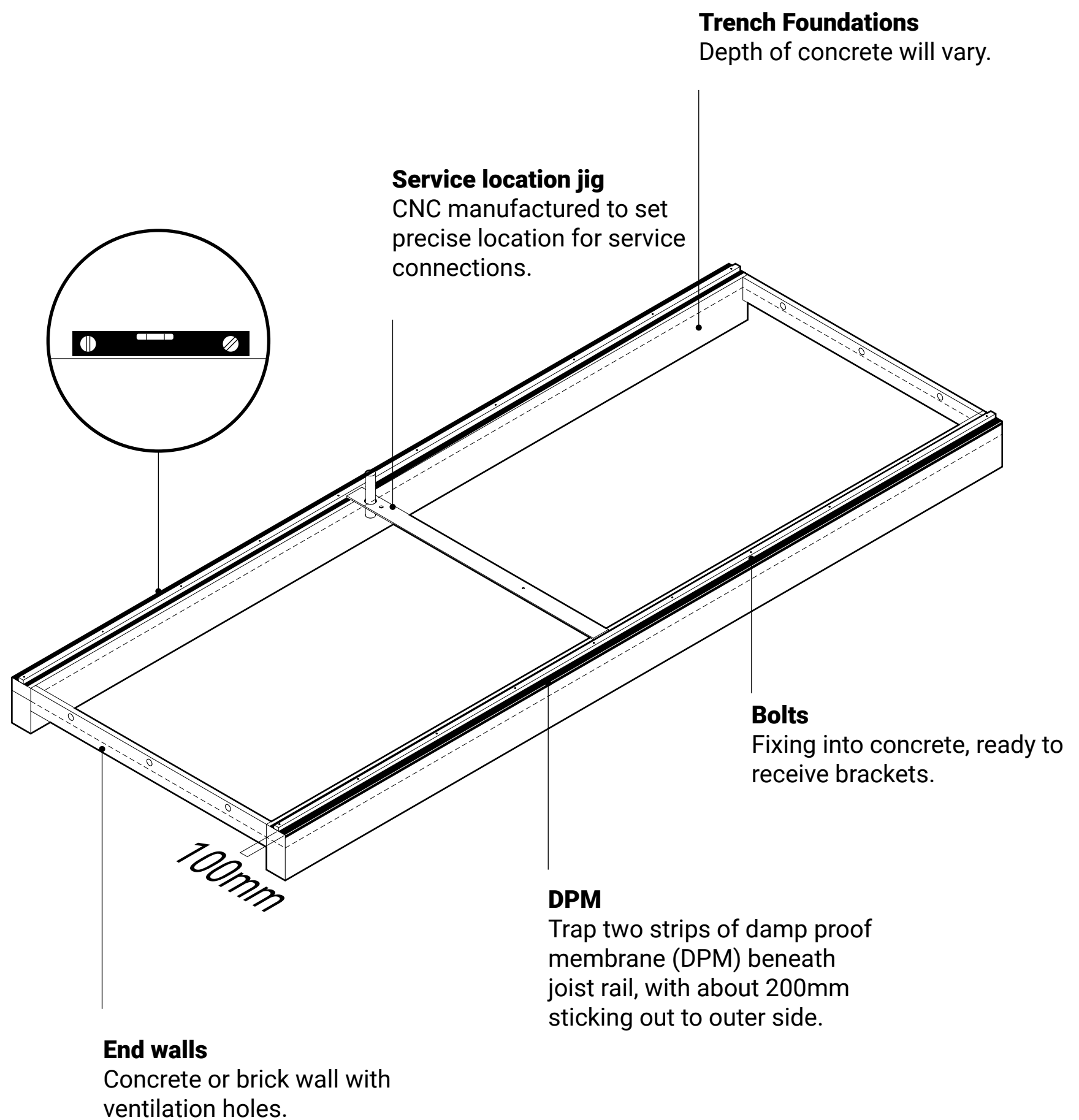
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Foundations

Almost any foundation type can be used, provided it can support the joist 'rails'. The rails must be level and parallel (+/- 5mm). Consult a builder or engineer to assess design and specification of foundations.

Ob

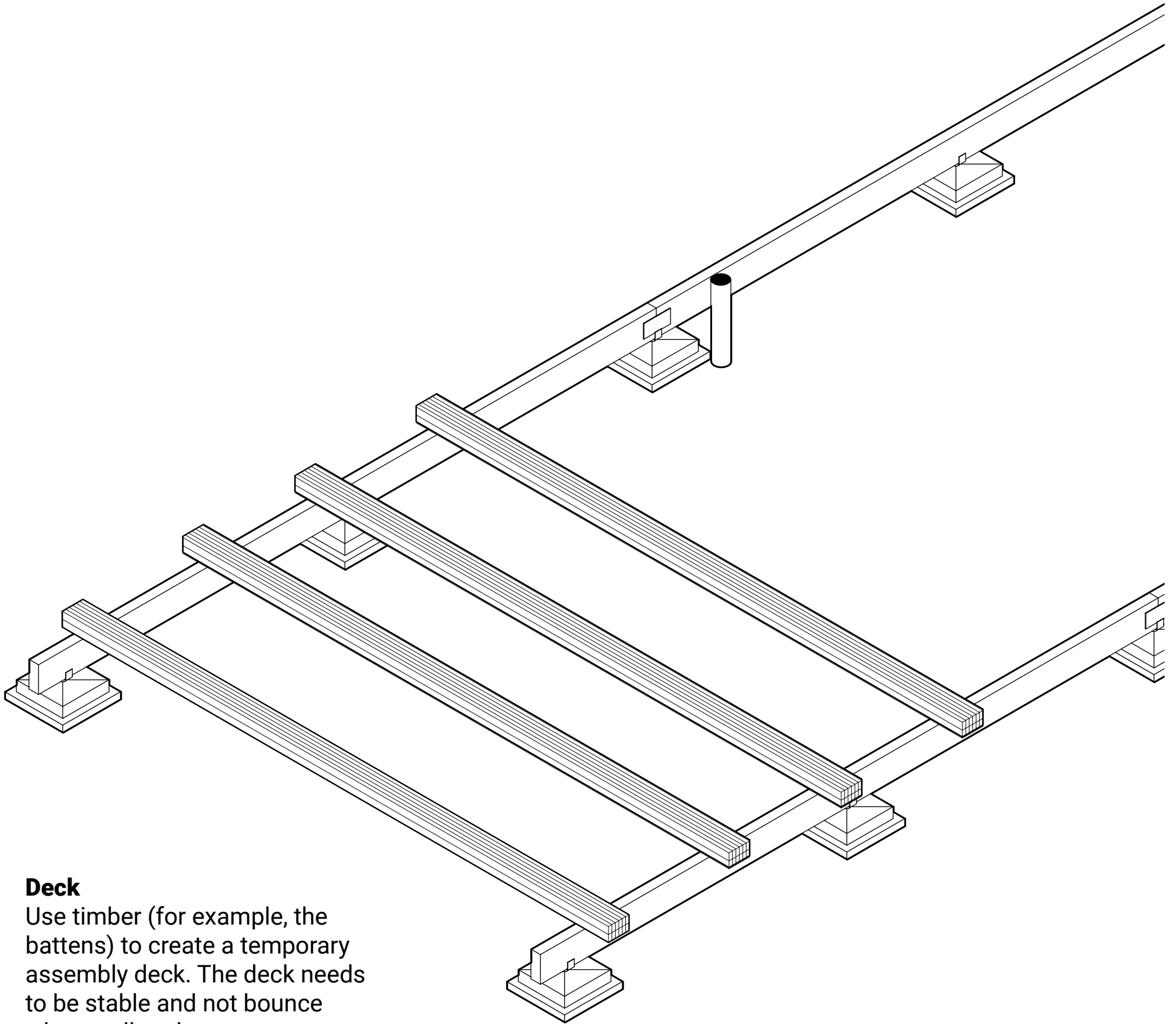


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1

**Deck**

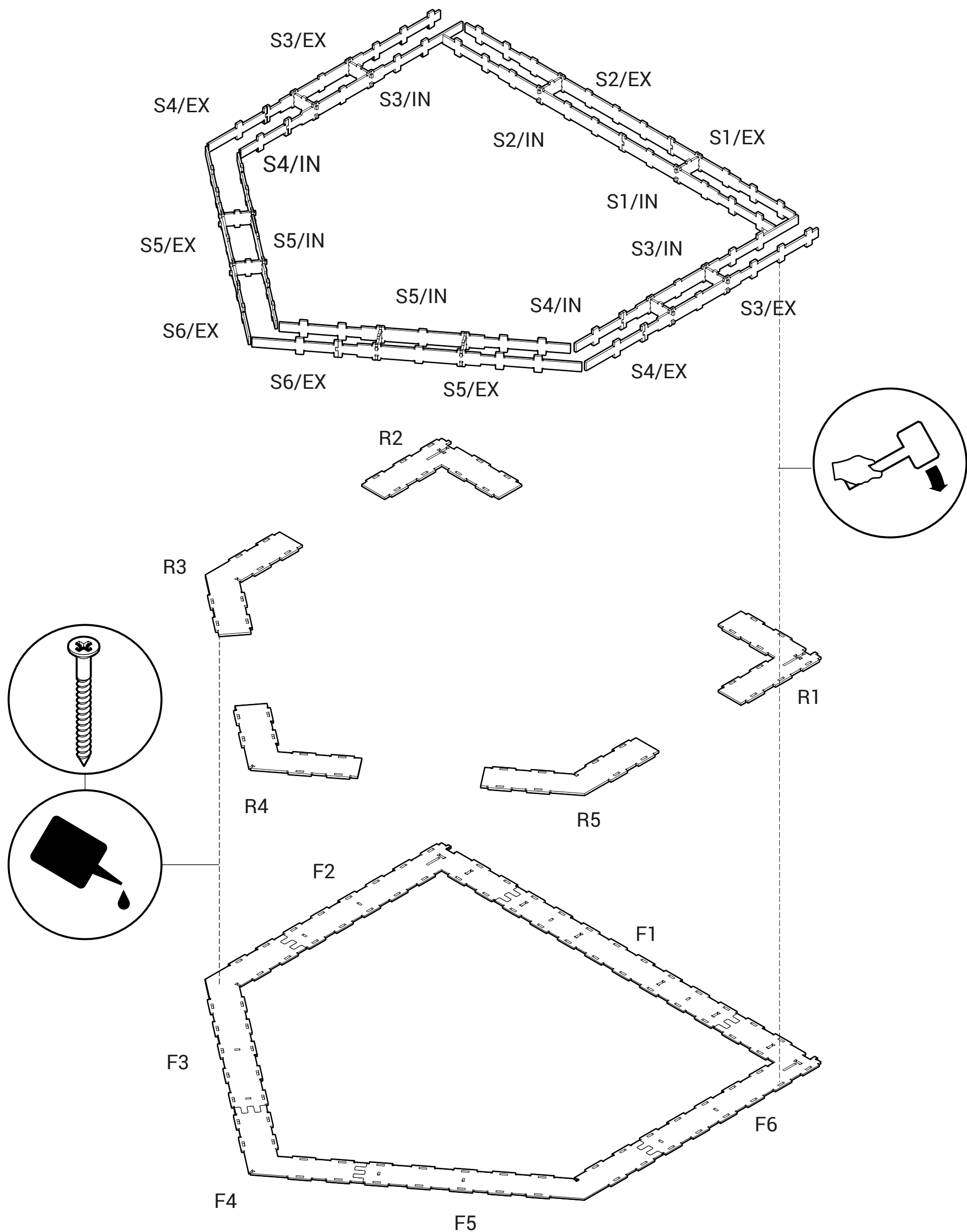
Use timber (for example, the battens) to create a temporary assembly deck. The deck needs to be stable and not bounce when malleted.

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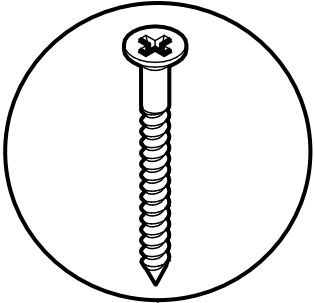
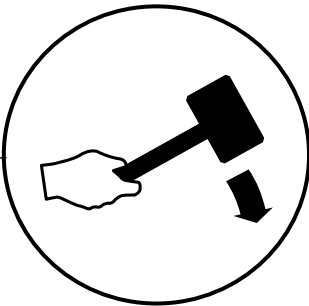
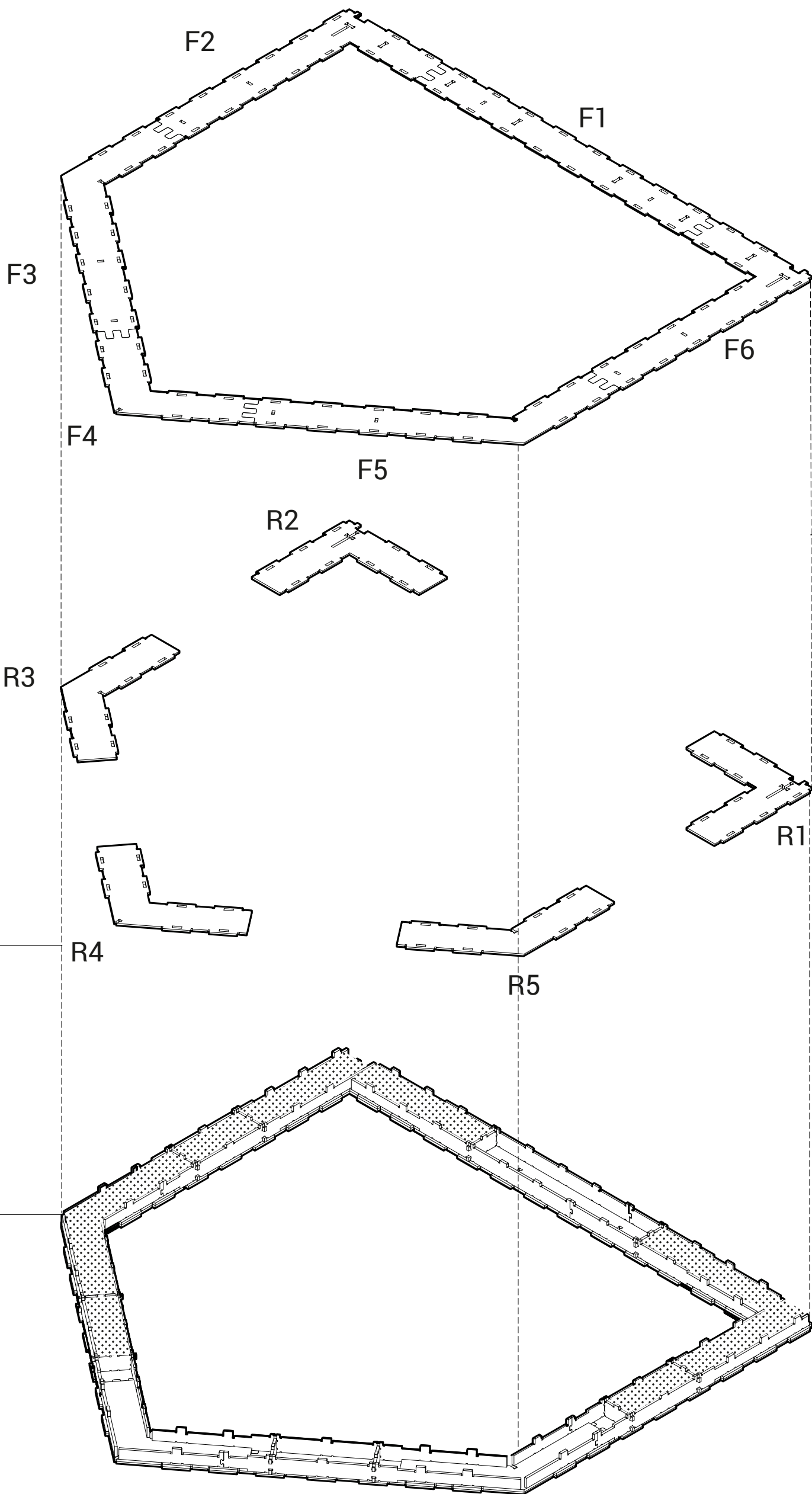
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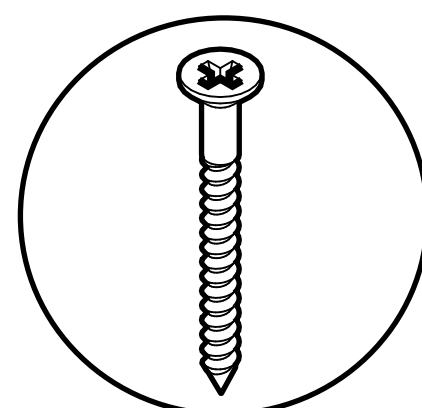
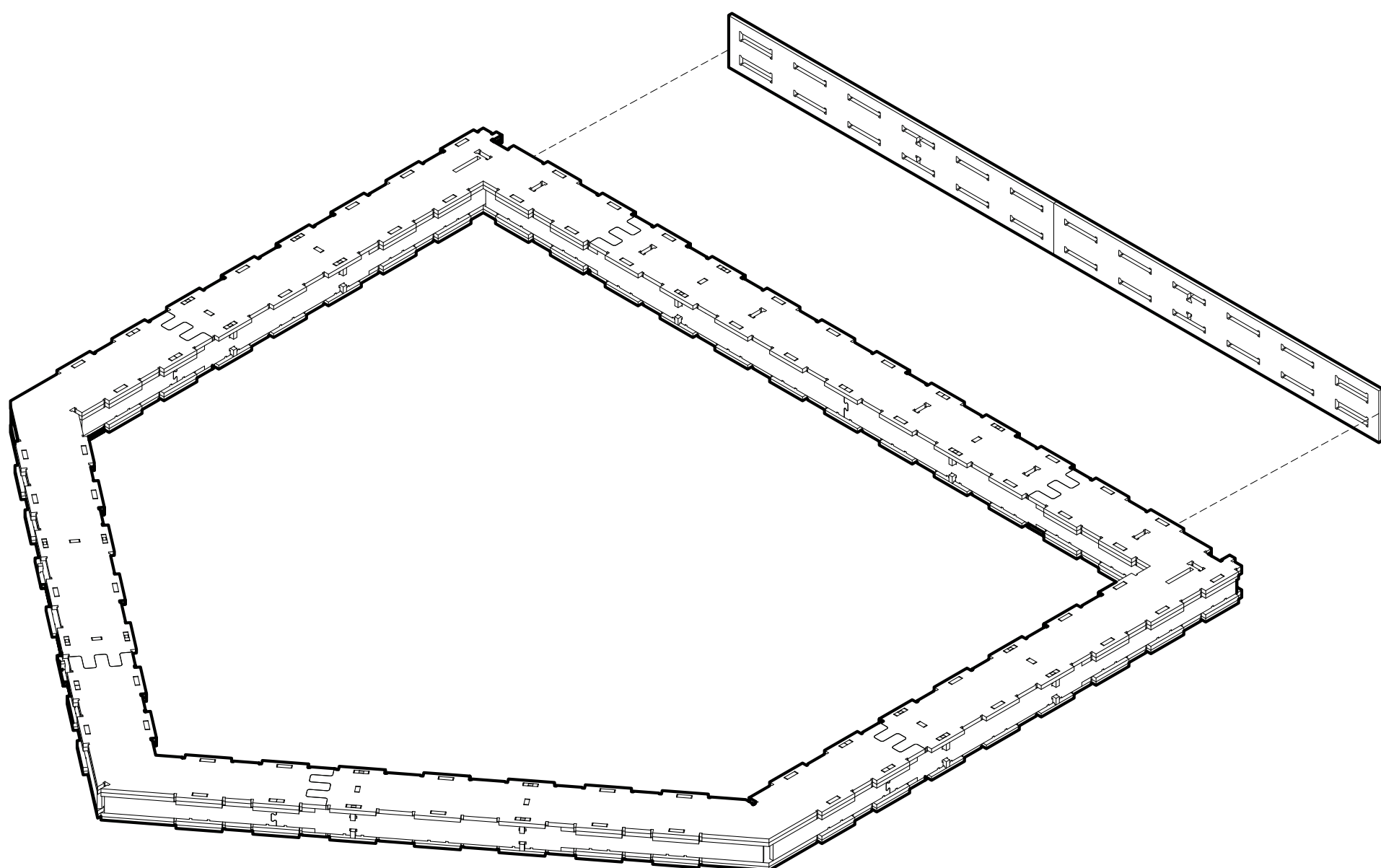
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Skis

Fit skis to underside of each superbox frame before raising.

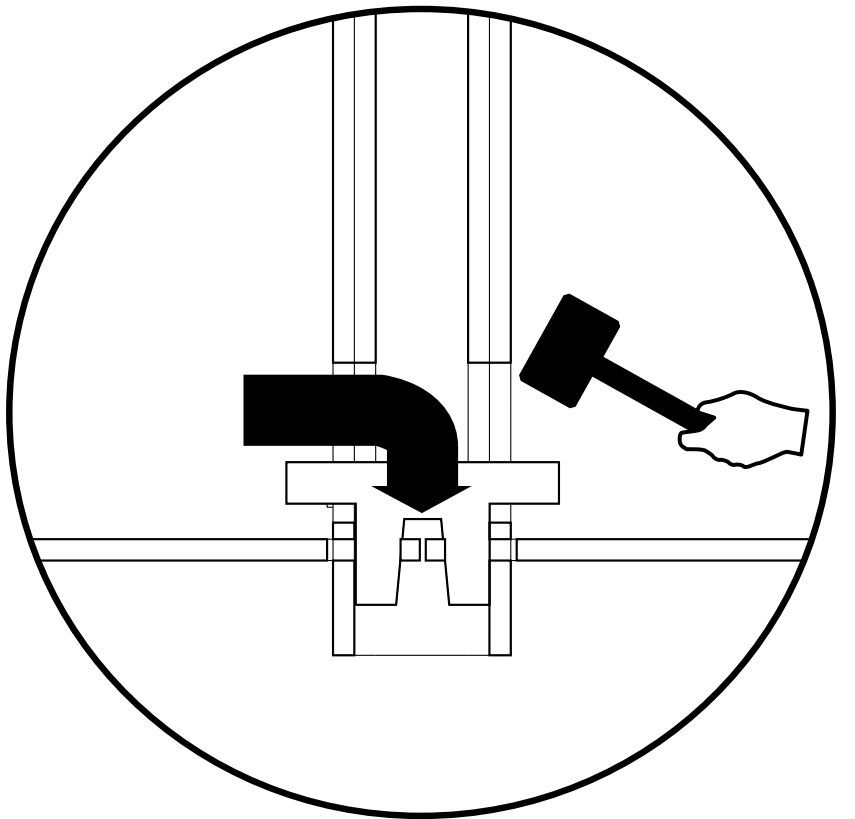
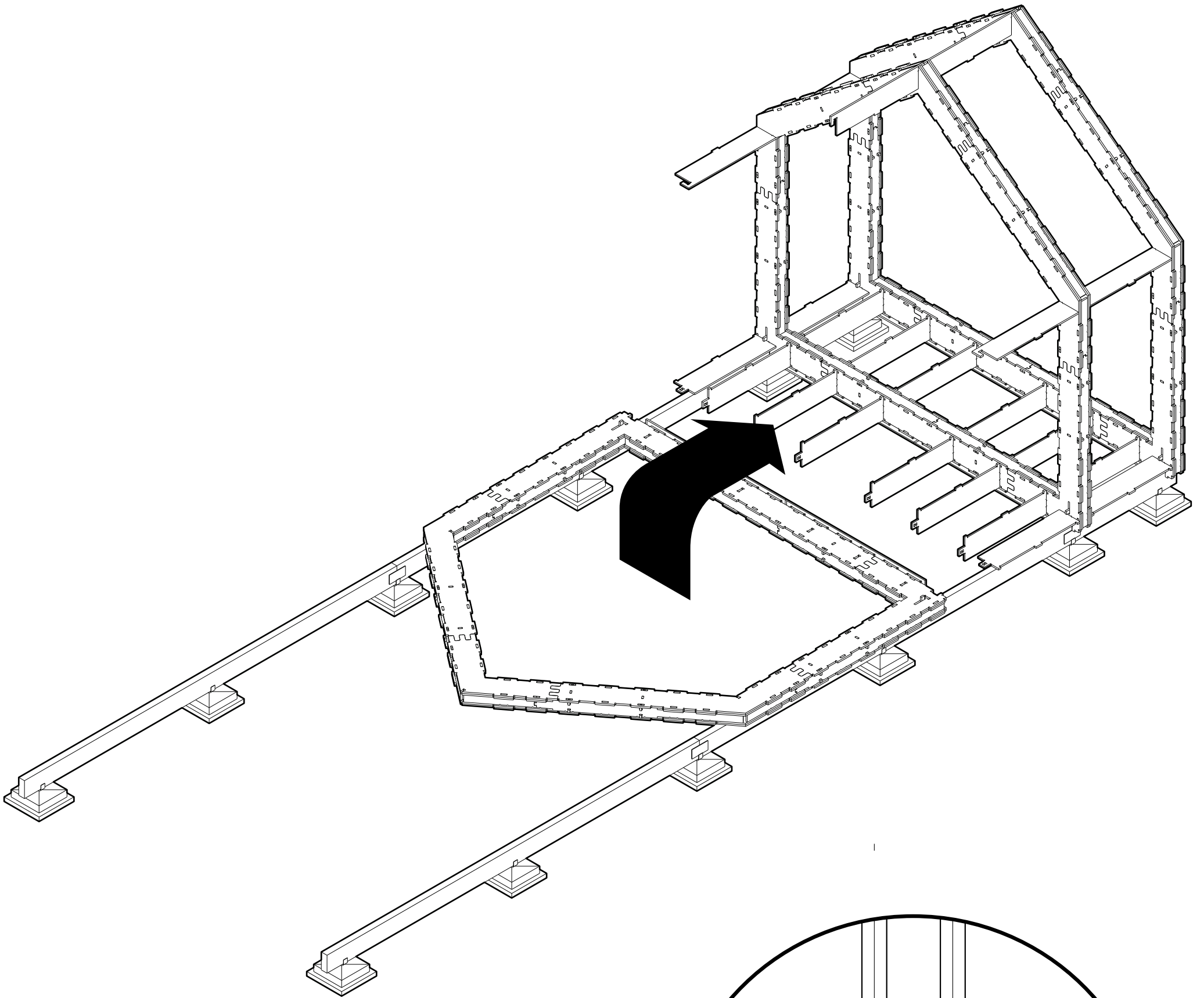


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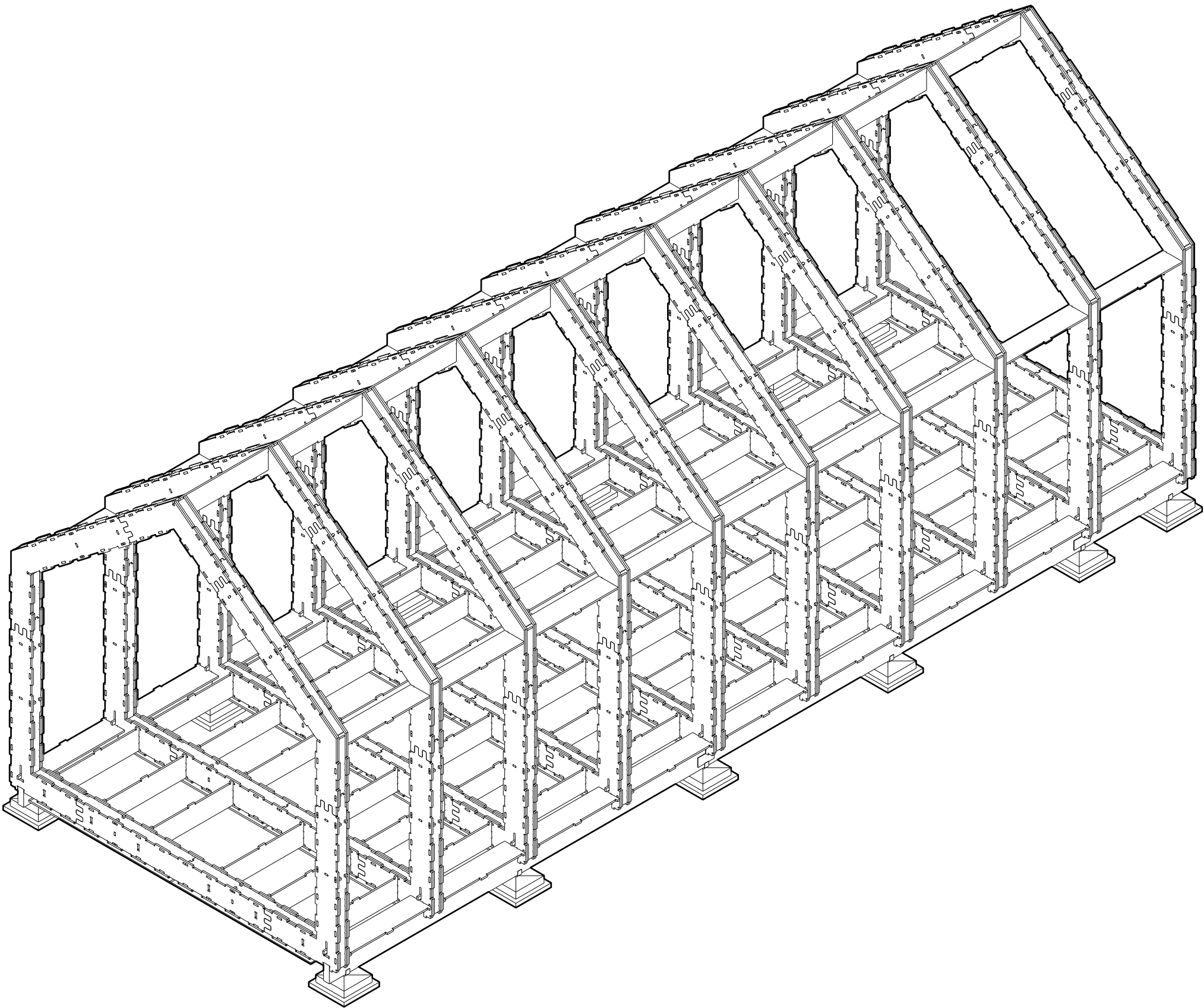
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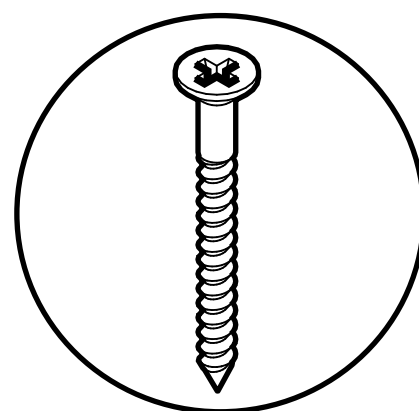
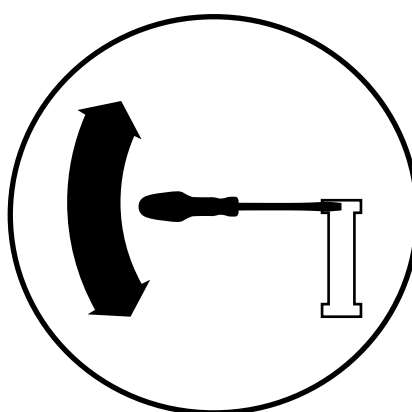
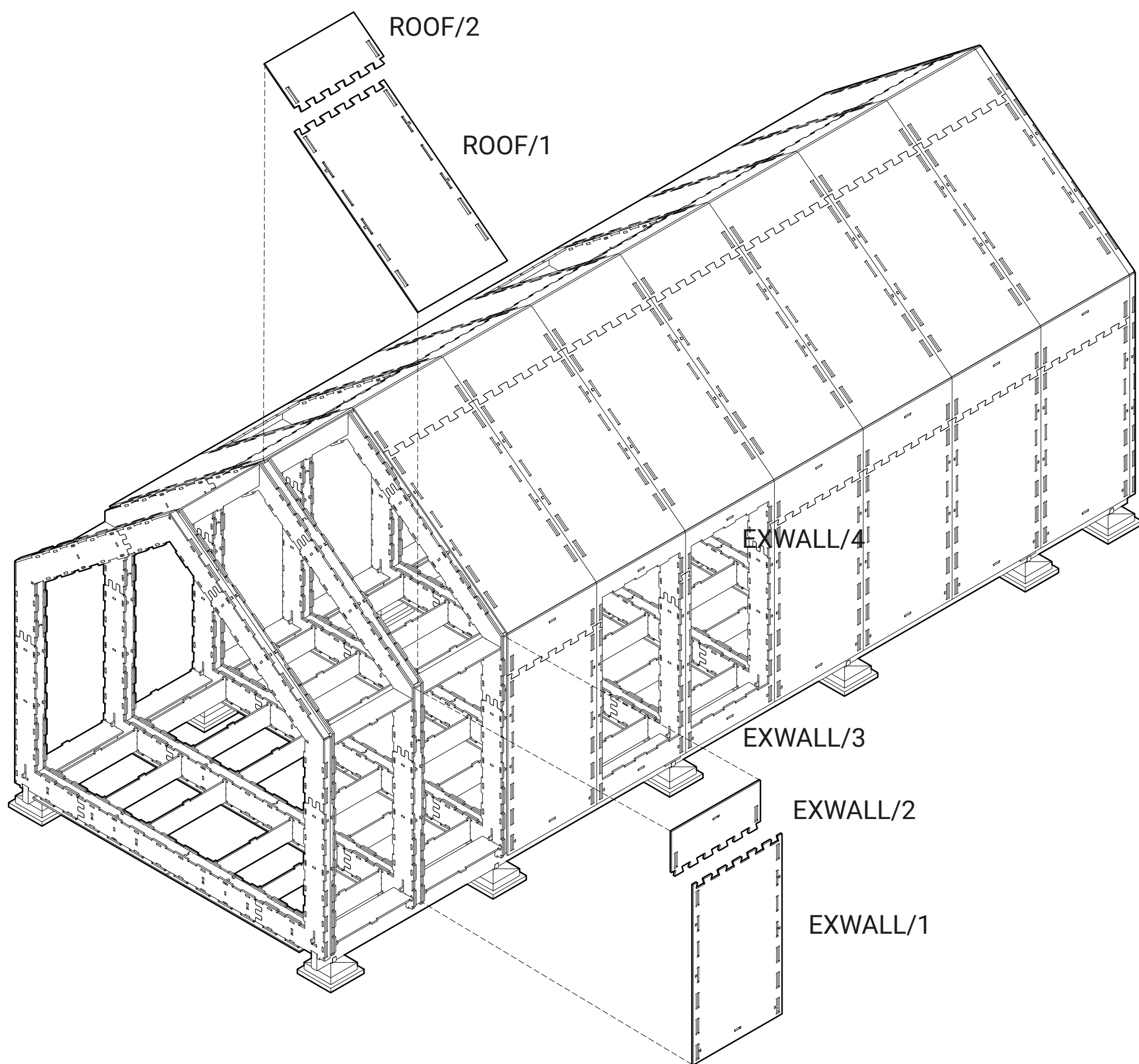


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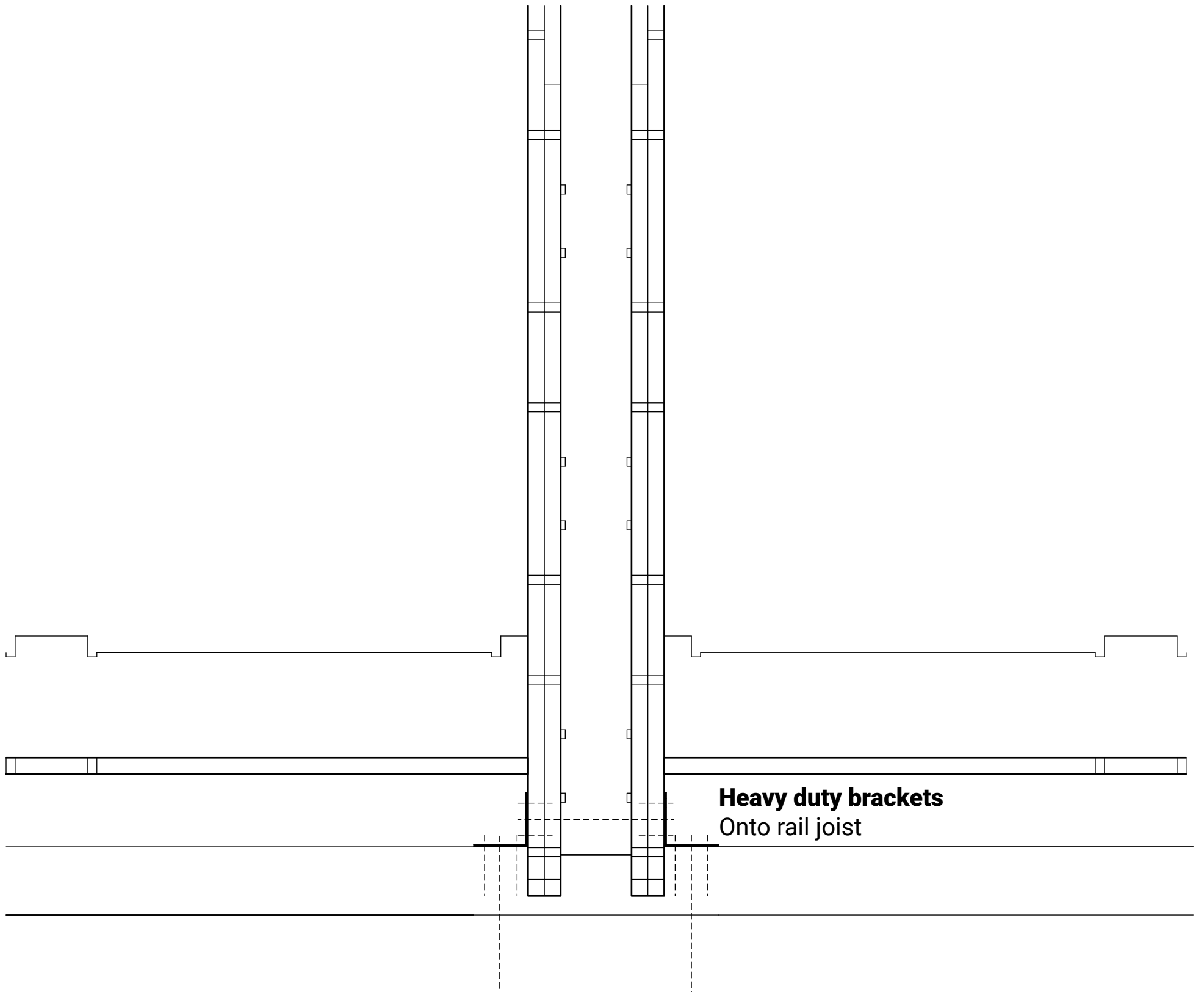


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Fixing down

Use bolts and/or large screws, depending on the foundation type. Always consult an engineer or building professional, especially to ensure footings are adequate. During high winds, uplift can be very strong.

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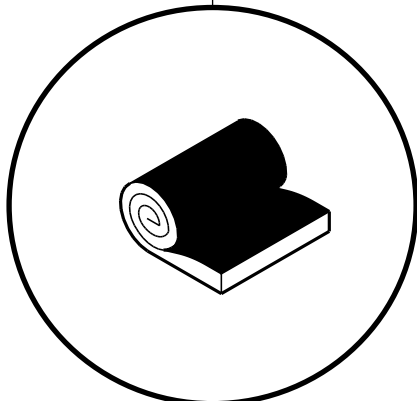
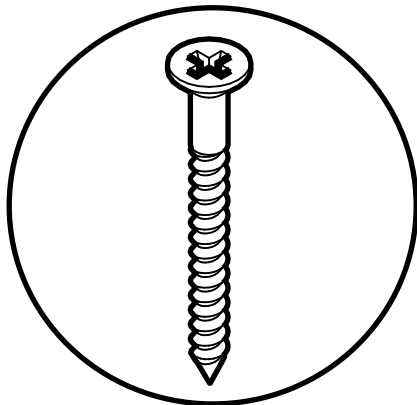
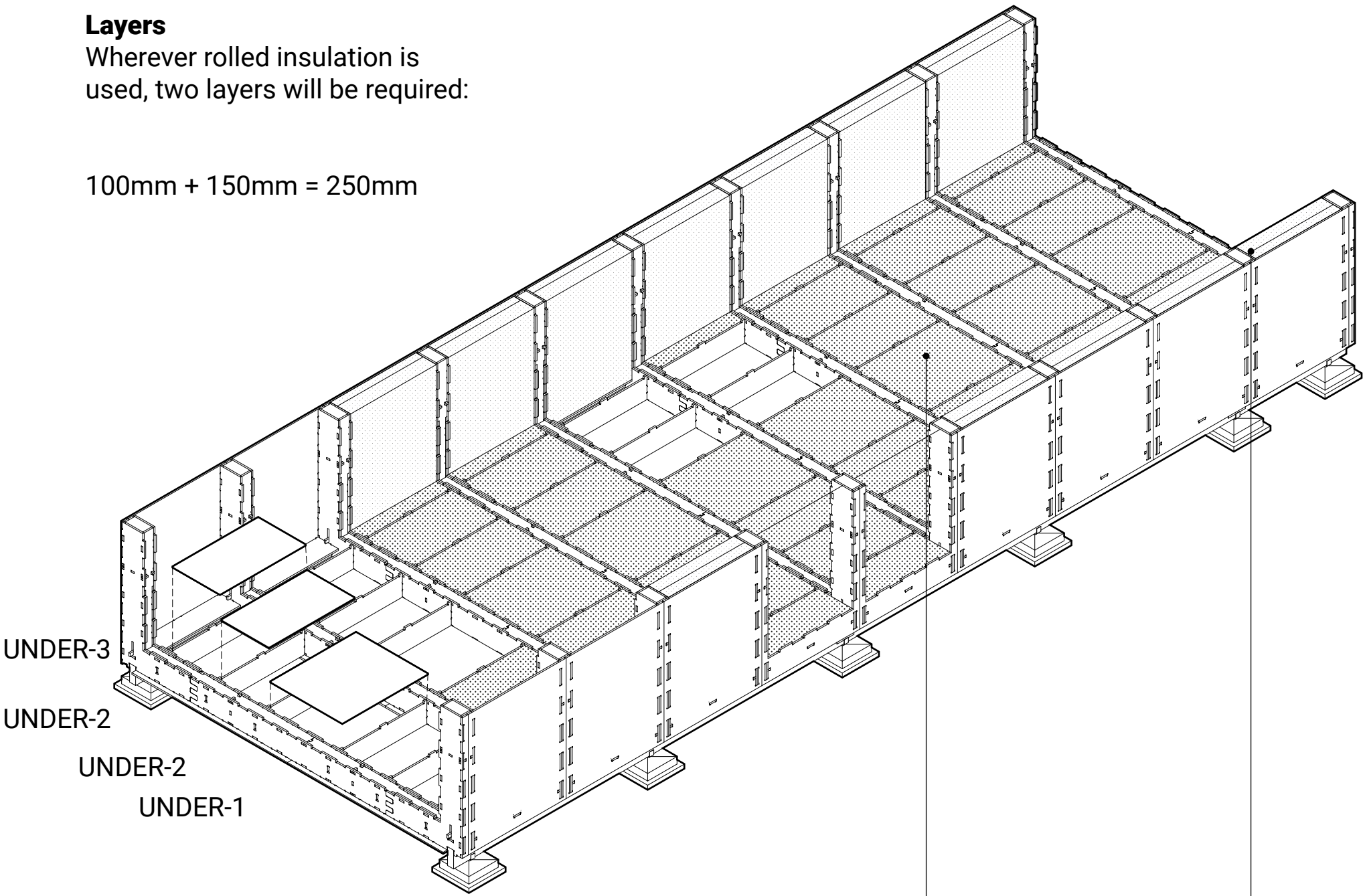
Drainage

Install underfloor soil pipe plus shower and washing machine drain before surrounding with insulation. You may wish to skip all but the two end bays for now.

Layers

Wherever rolled insulation is used, two layers will be required:

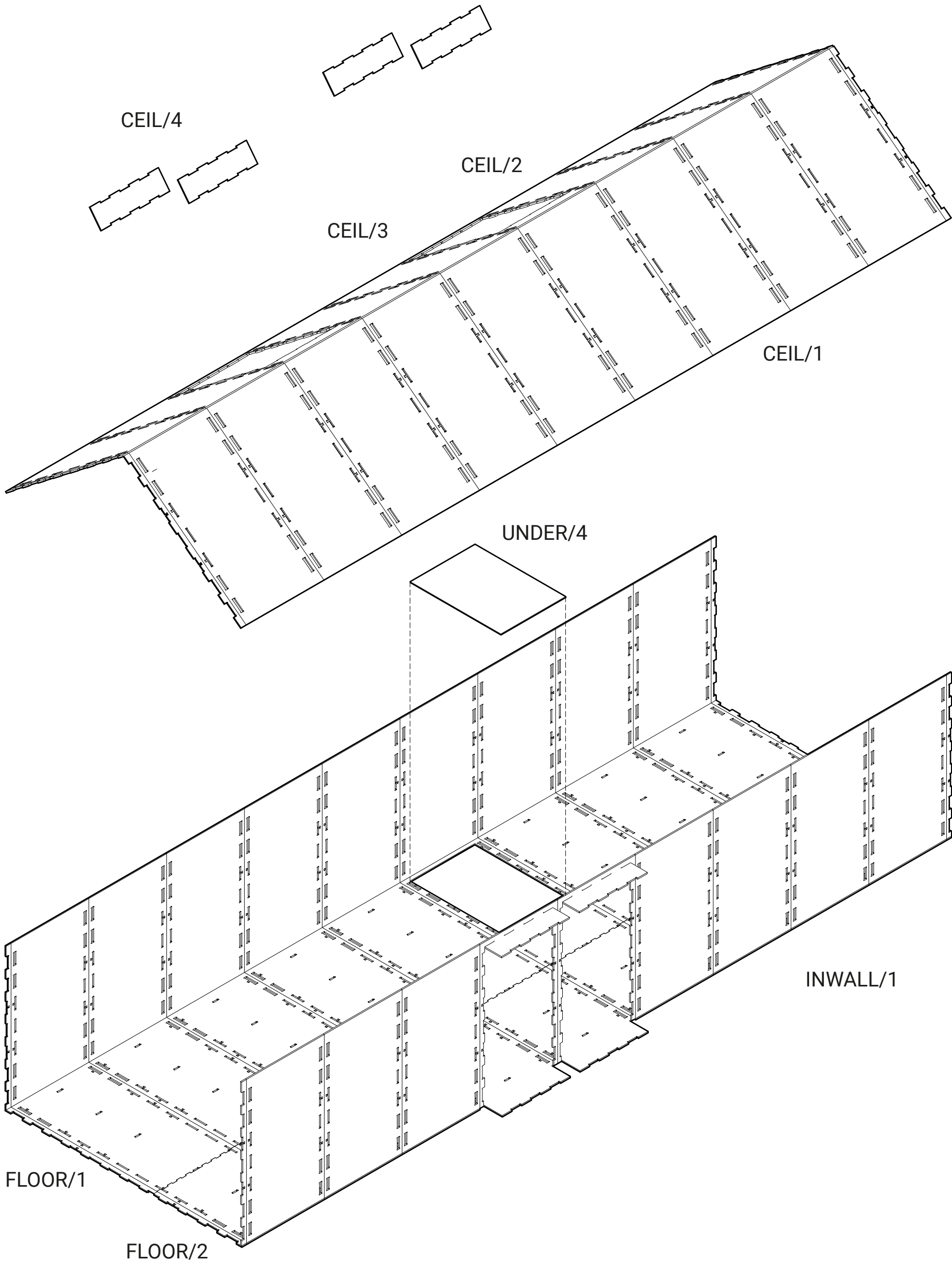
$$100\text{mm} + 150\text{mm} = 250\text{mm}$$



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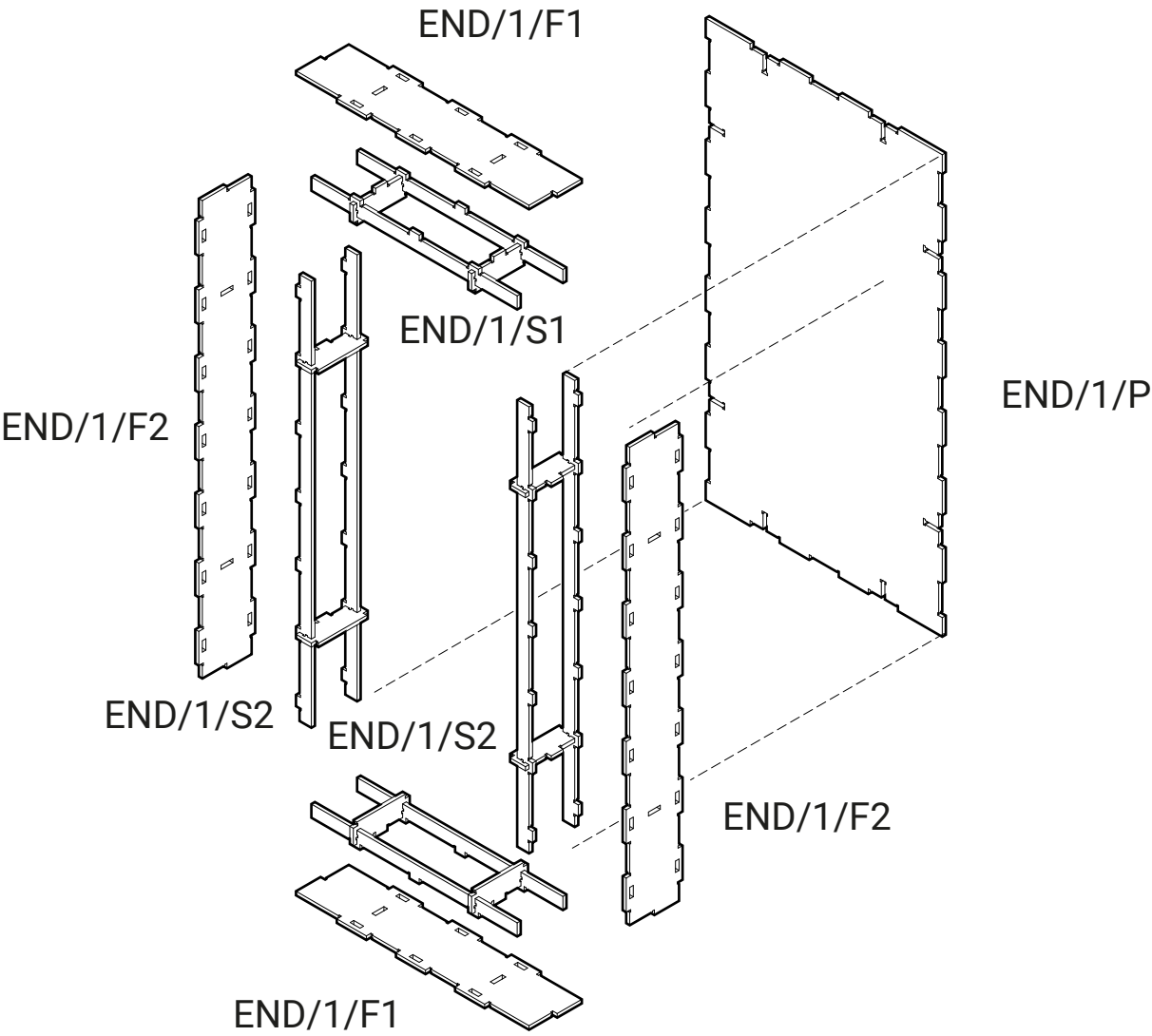
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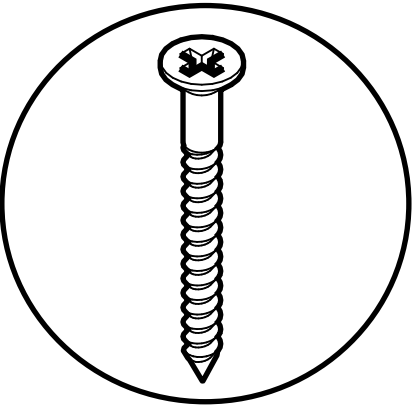
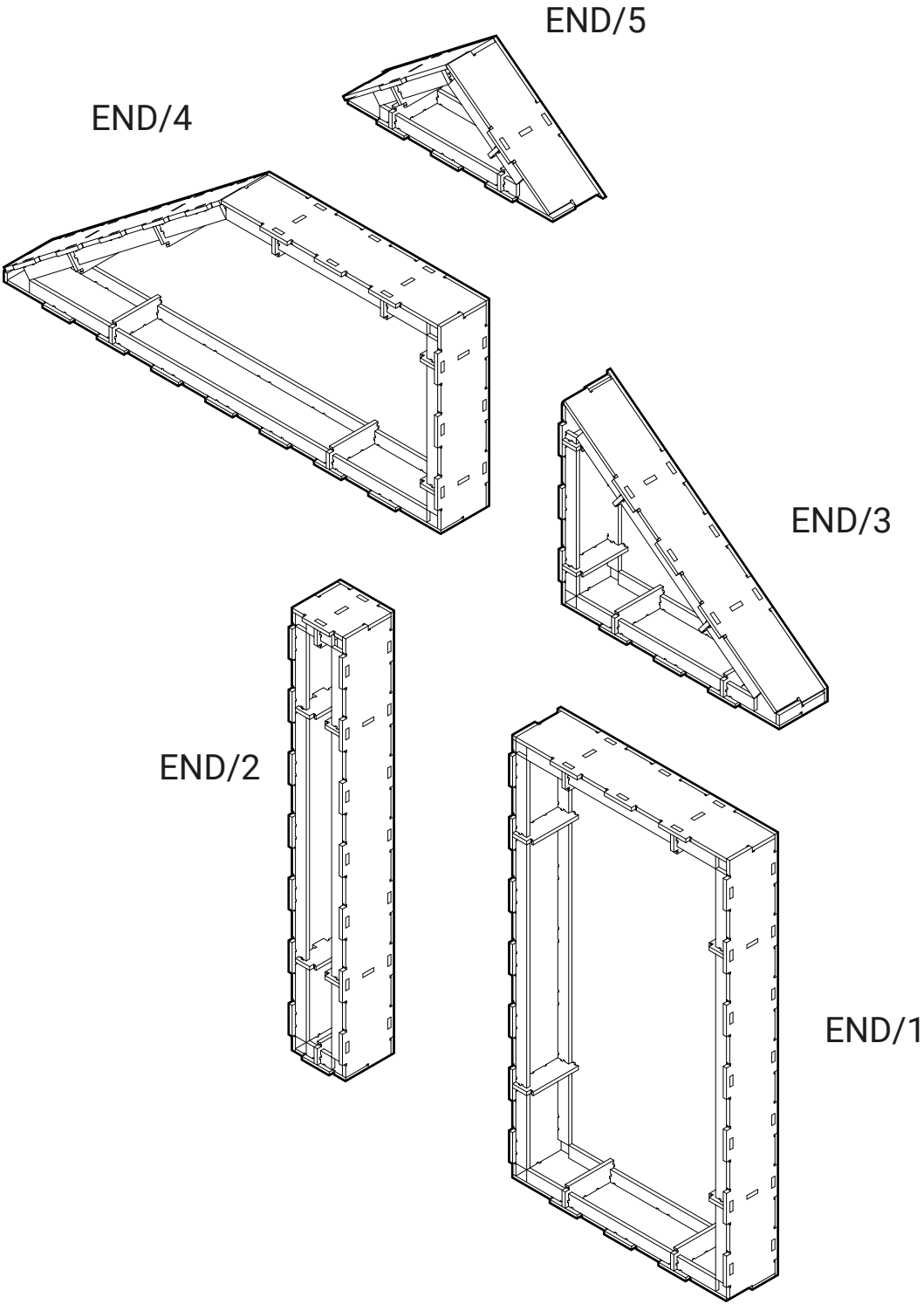
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11a



11b

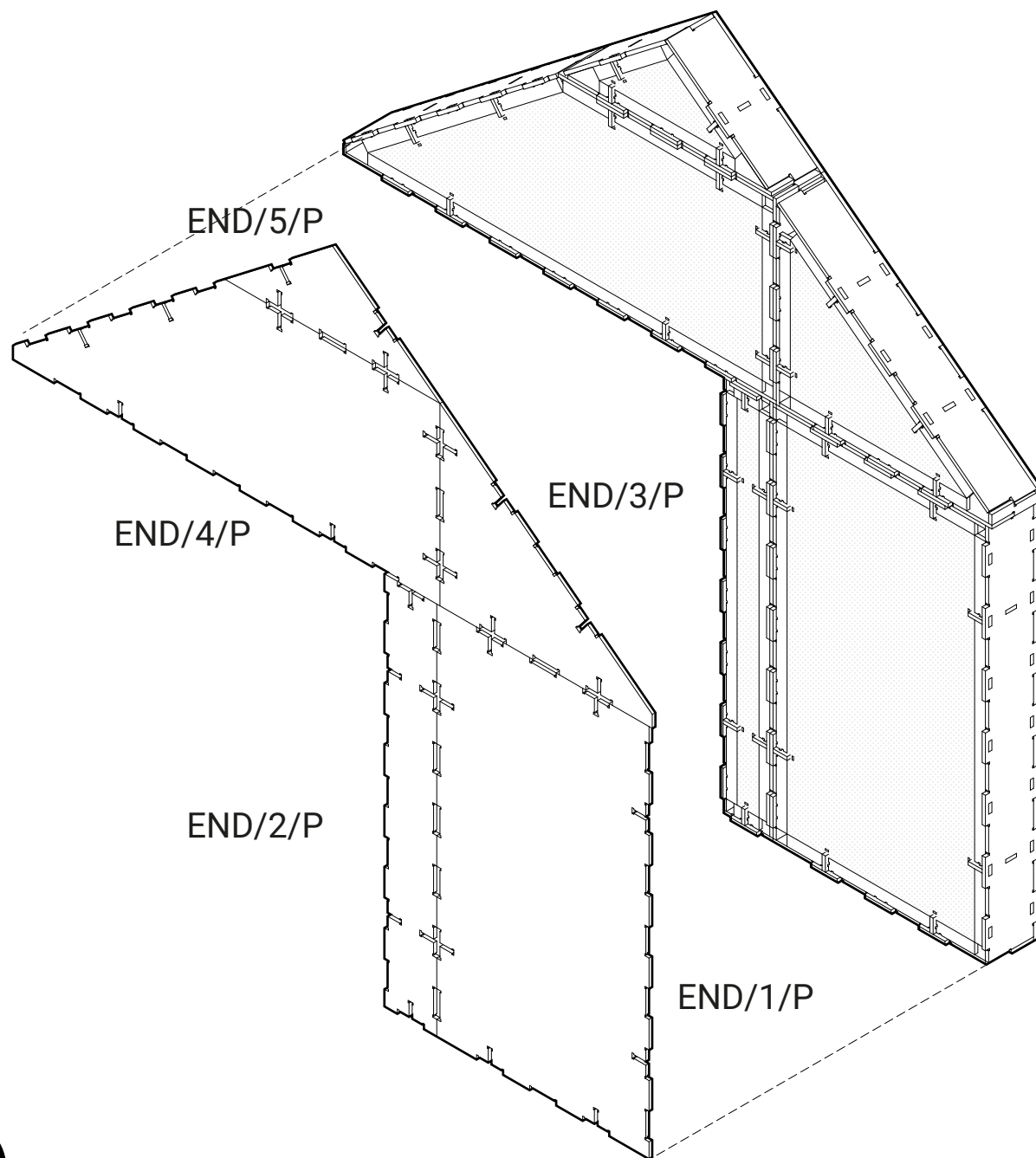


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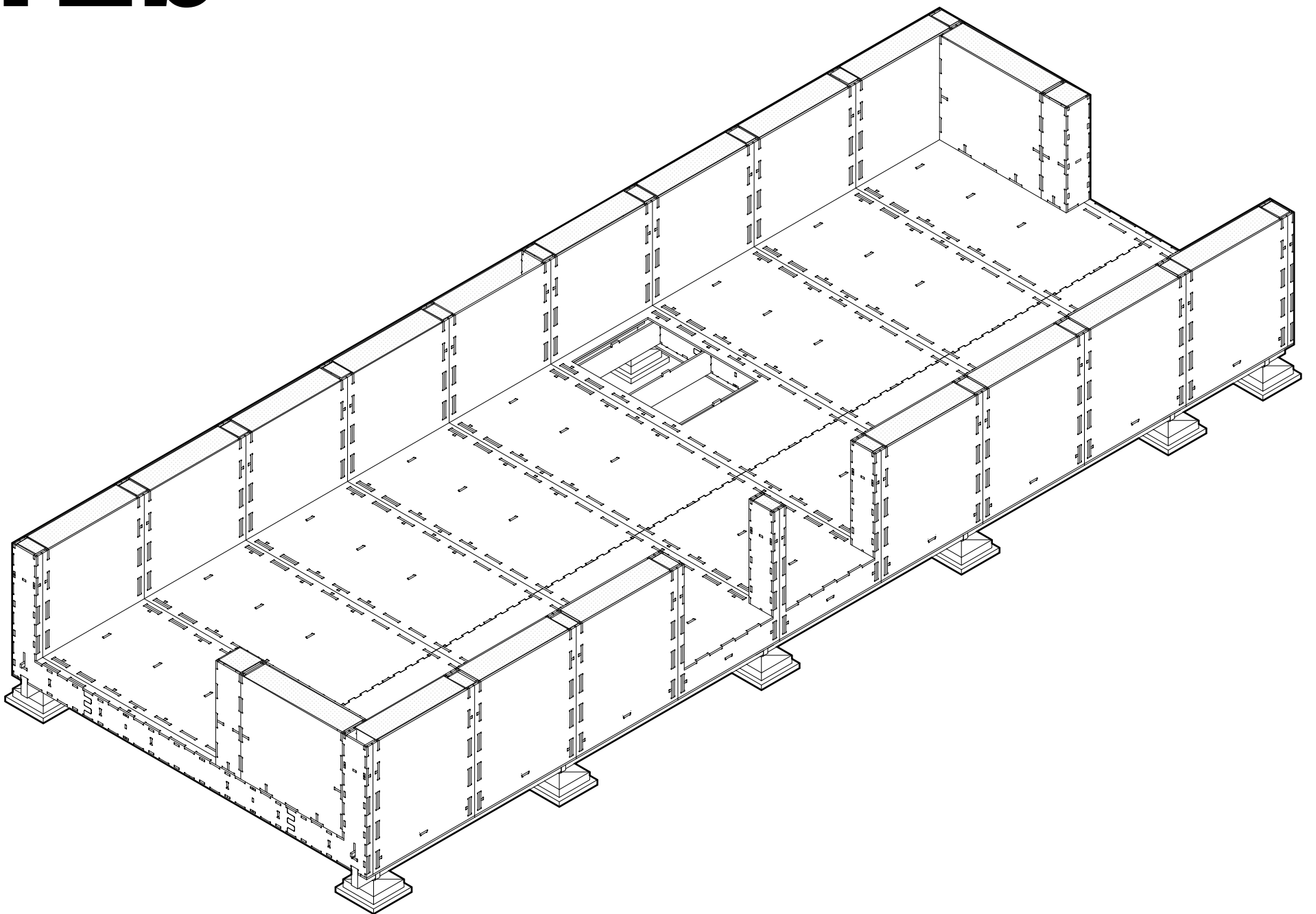
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12a



12b



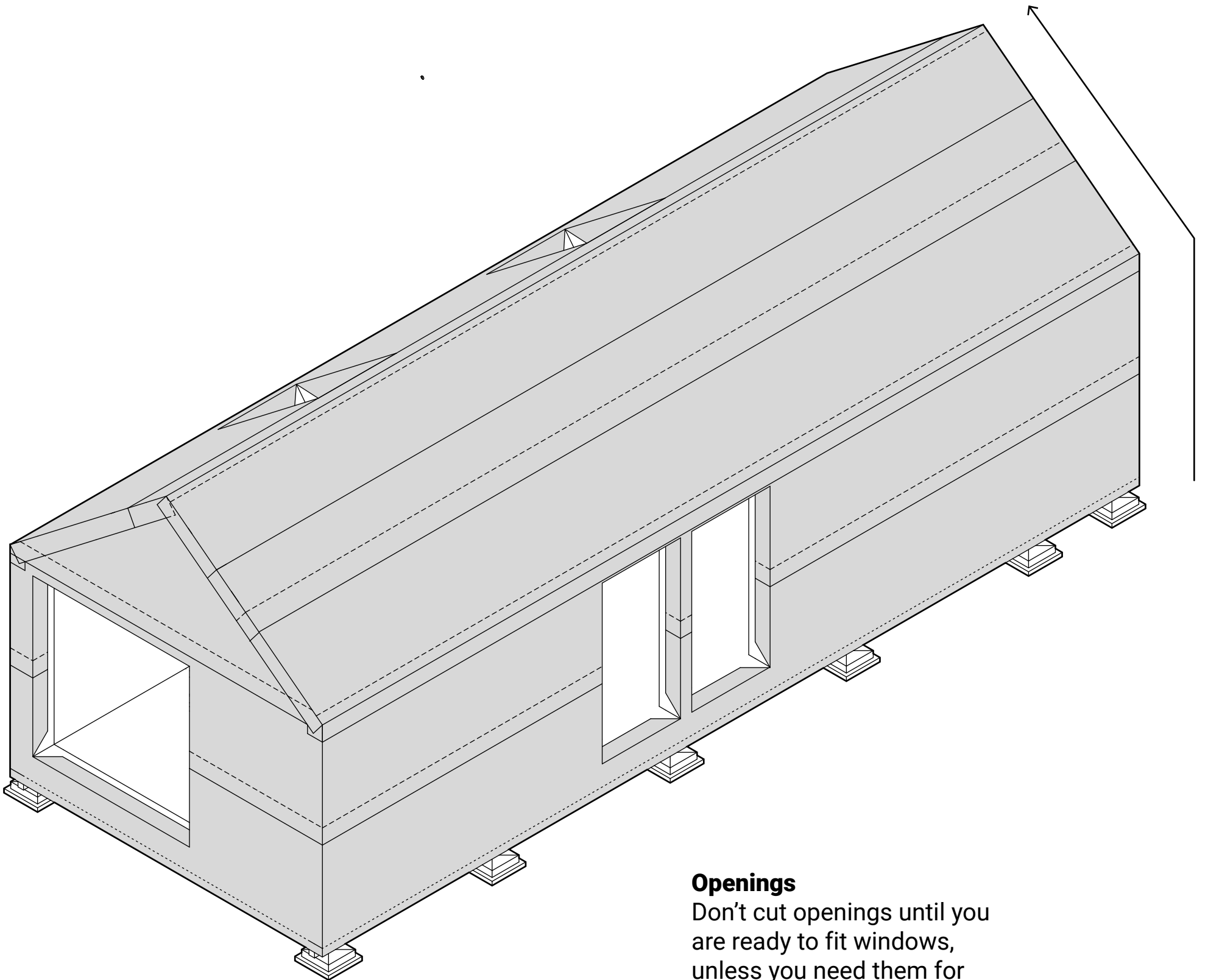
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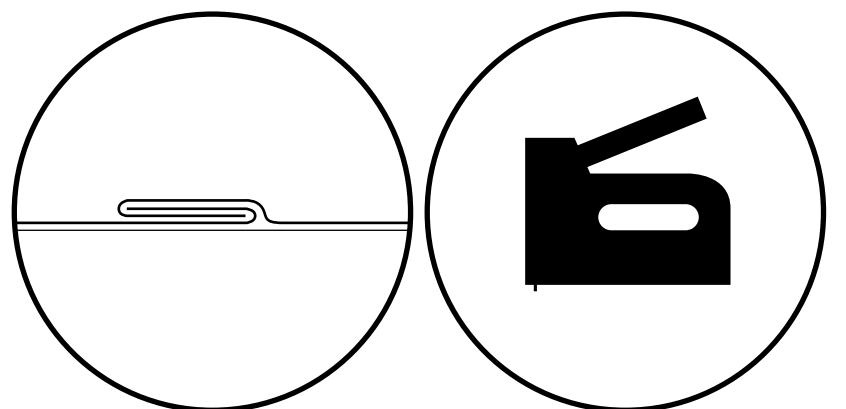
Wrap

Work upwards, giving at least 200mm overlap. Ensure all folds are double wrapped and 'weathered' so water will run downwards.



Openings

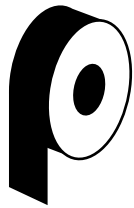
Don't cut openings until you are ready to fit windows, unless you need them for access. This way, the chassis is protected from rain during the build.



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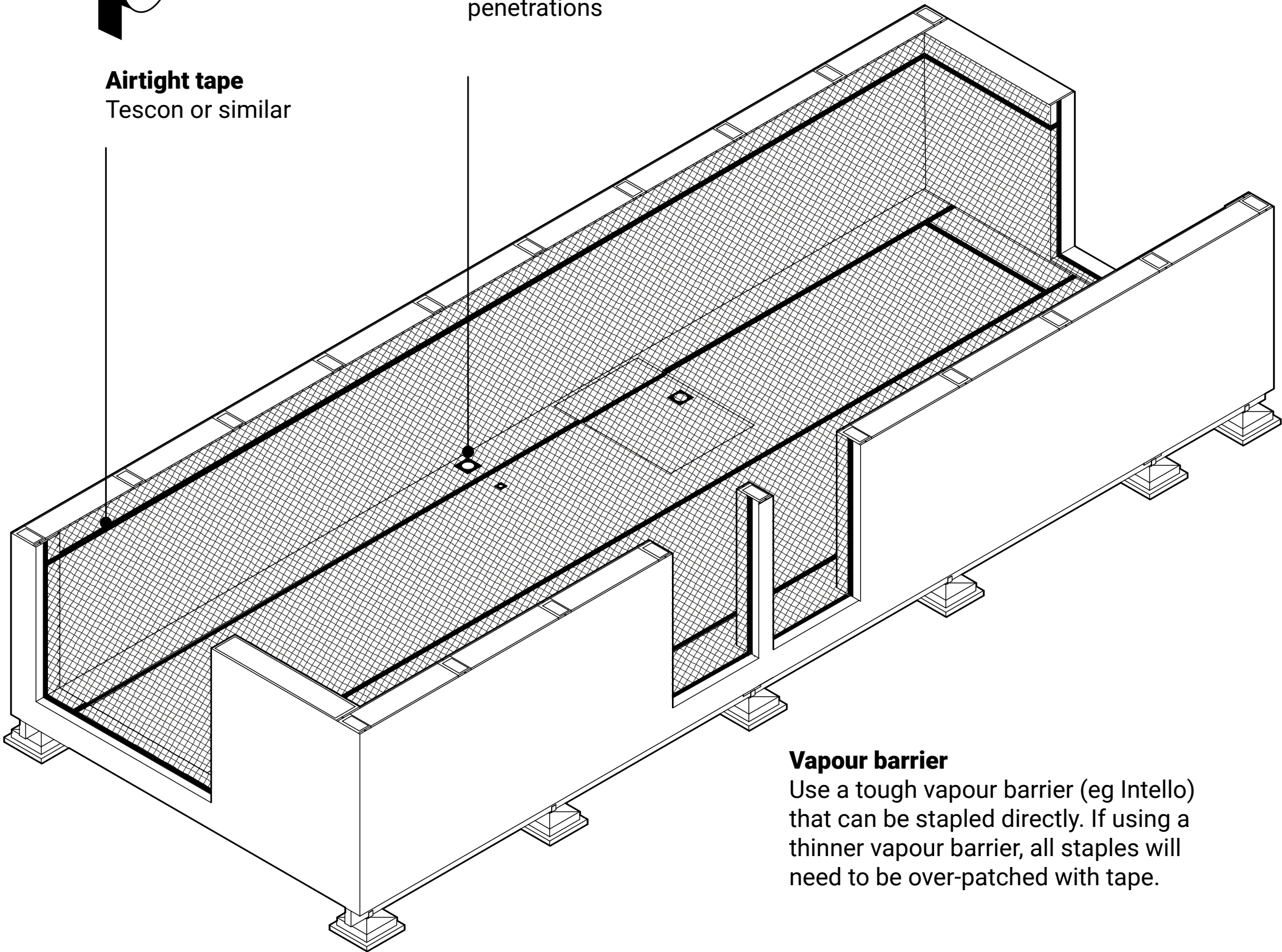
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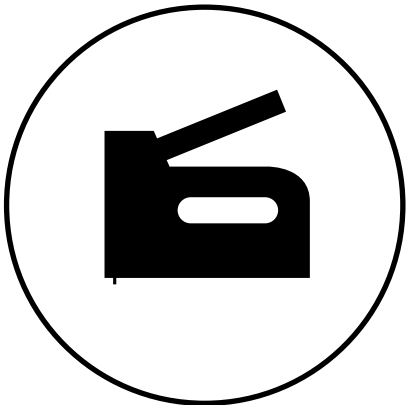


Airtight tape
Tescon or similar

Seals
Around all service penetrations



Vapour barrier
Use a tough vapour barrier (eg Intello) that can be stapled directly. If using a thinner vapour barrier, all staples will need to be over-patched with tape.

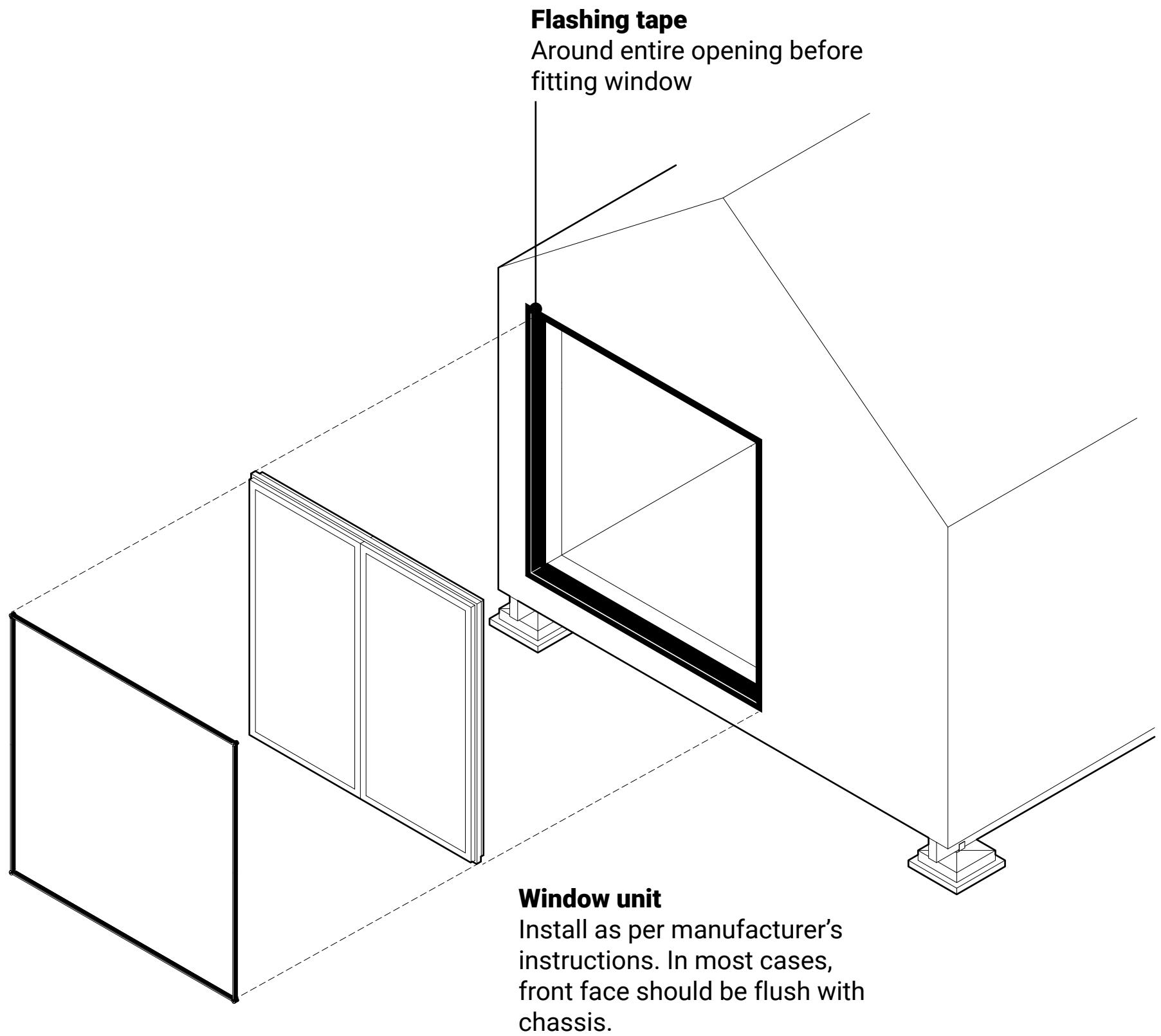


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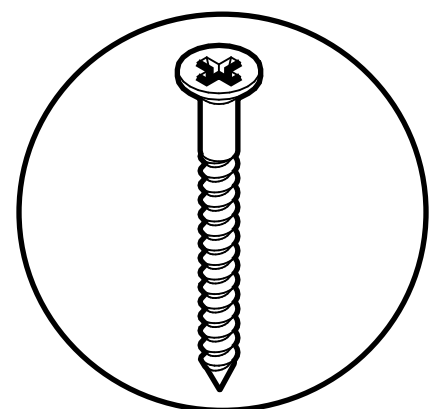
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Expanding tape
Fit to windows seconds before installing unit and allow to expand. Pinch corners slightly to ensure no corner gaps. Check complete seal around unit. If possible add additional flashing tape to exterior. It is impossible to be too thorough. Wind will drive rain into even the smallest crack.



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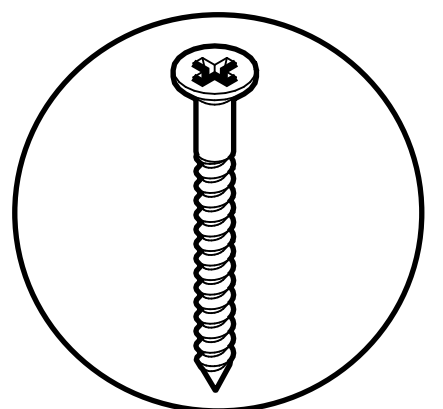
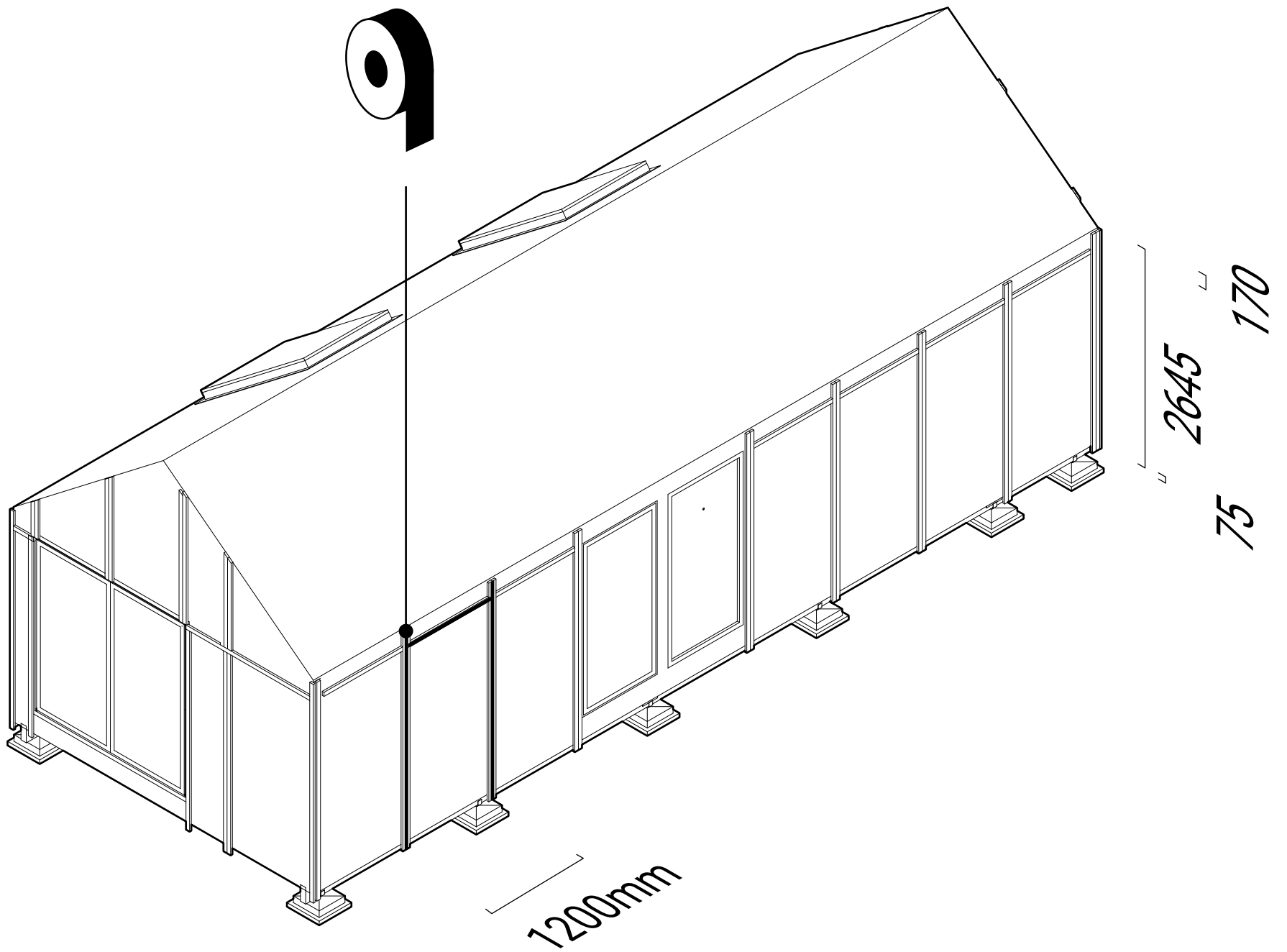
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Flashing tape

Apply black flashing tape to front of battens. This will be visible in the gaps between panels.



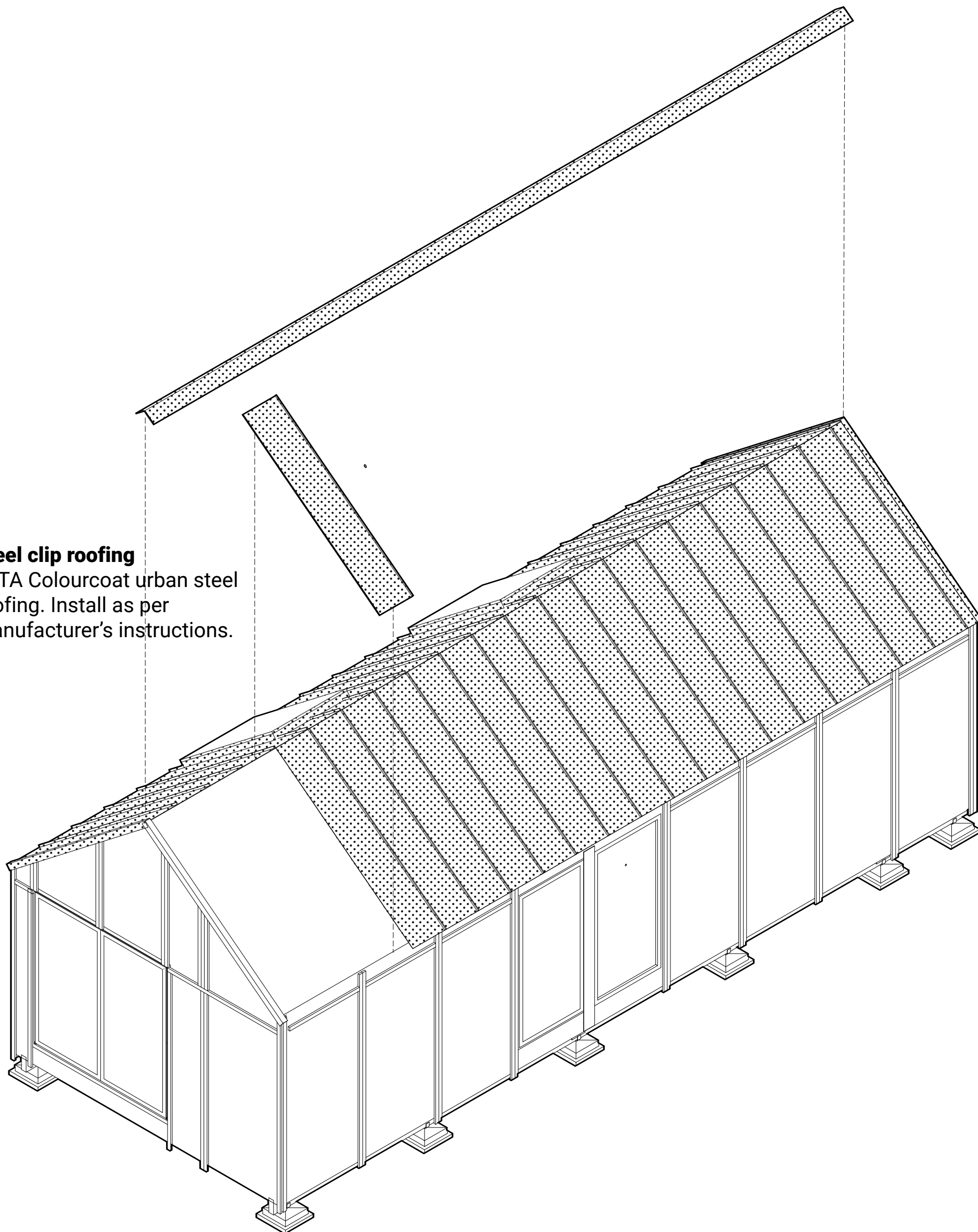
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Steel clip roofing

TATA Colourcoat urban steel roofing. Install as per manufacturer's instructions.



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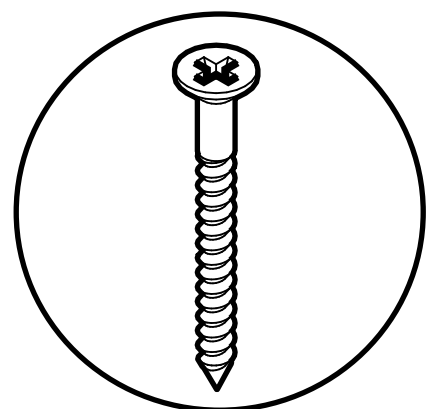
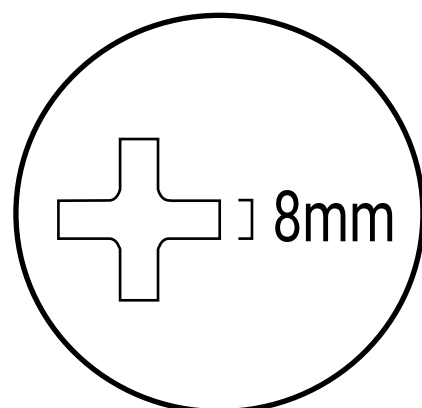
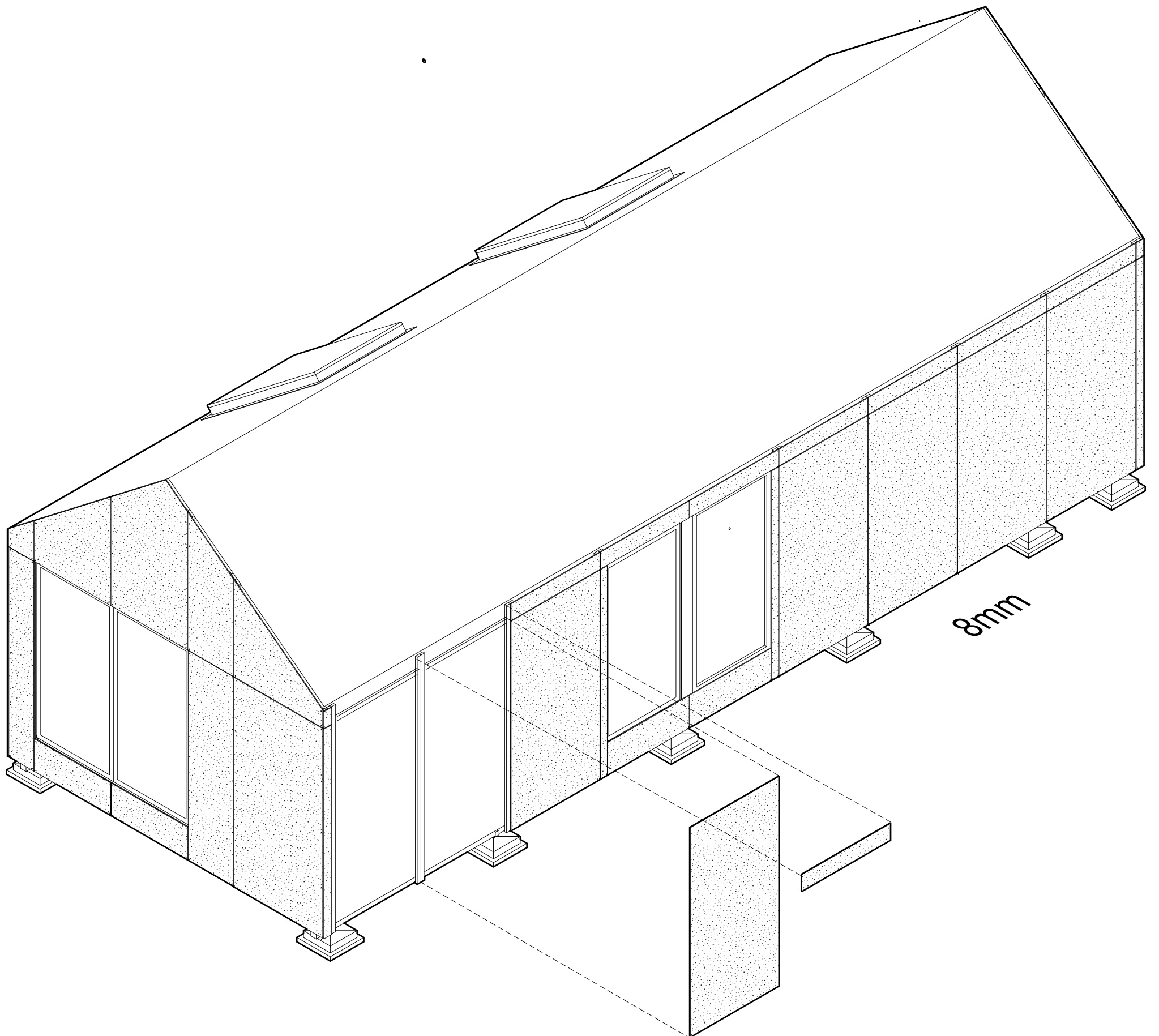
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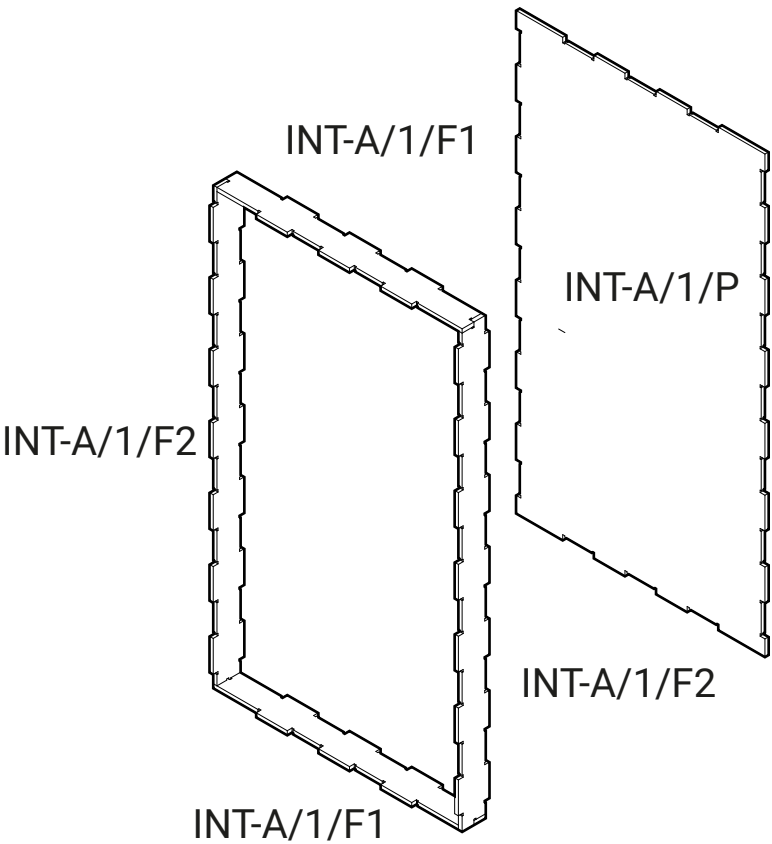


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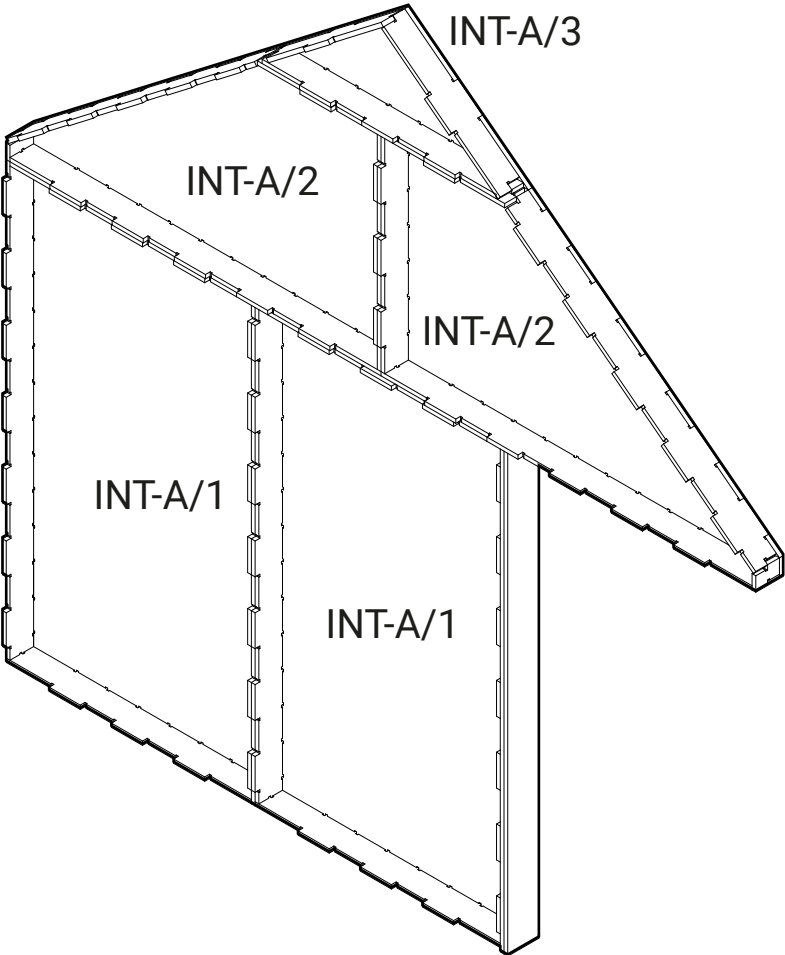
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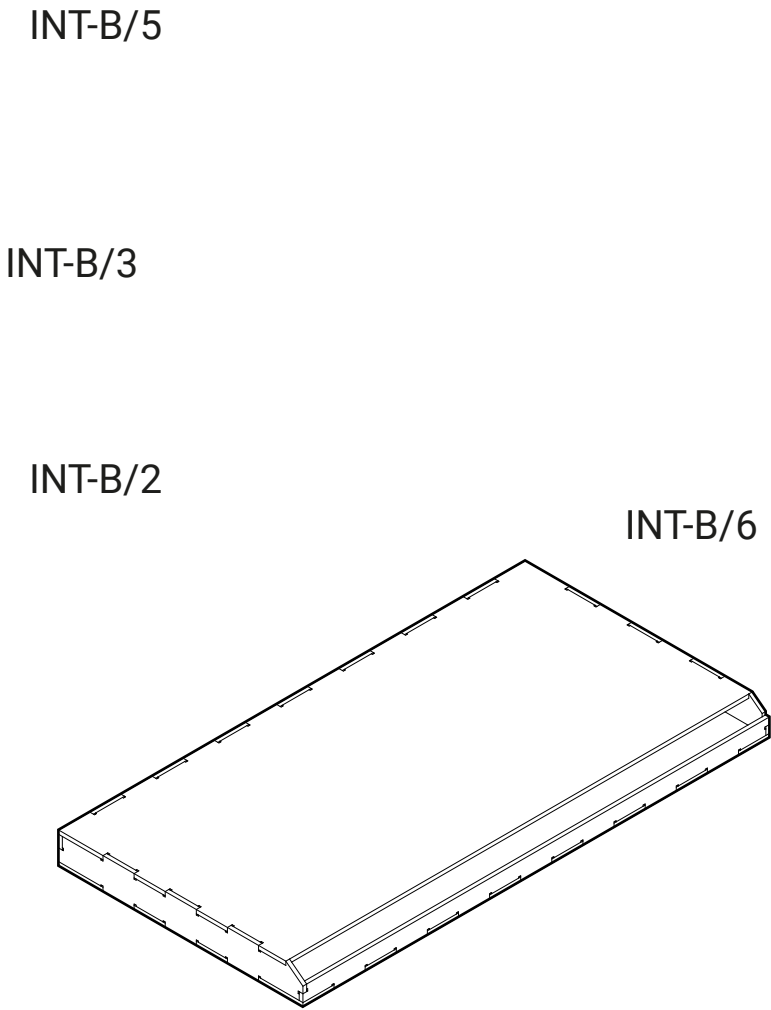
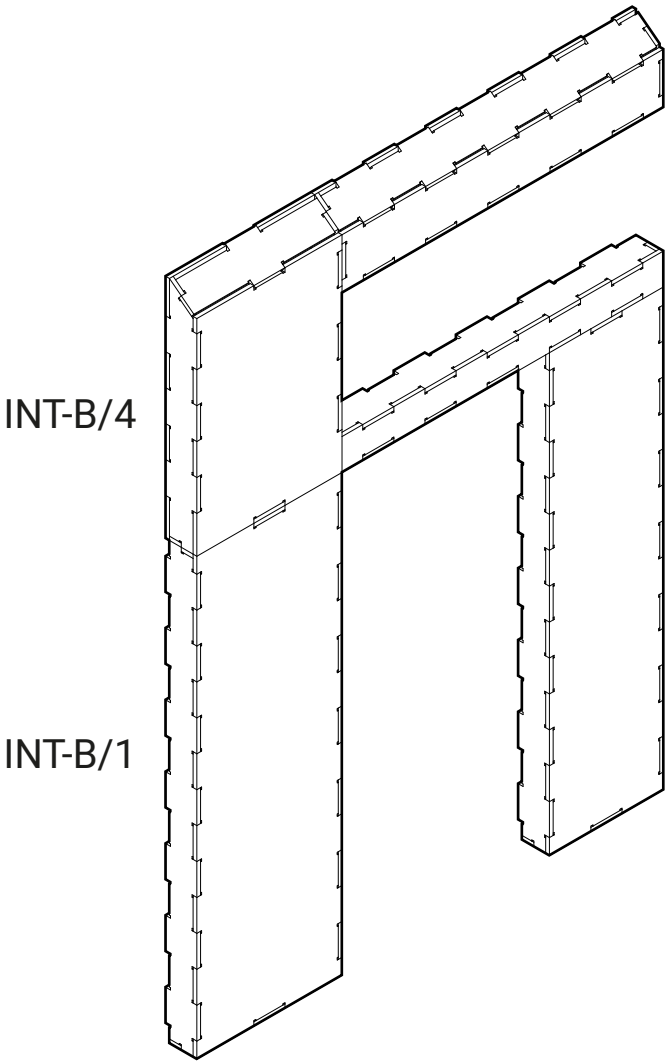
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19b



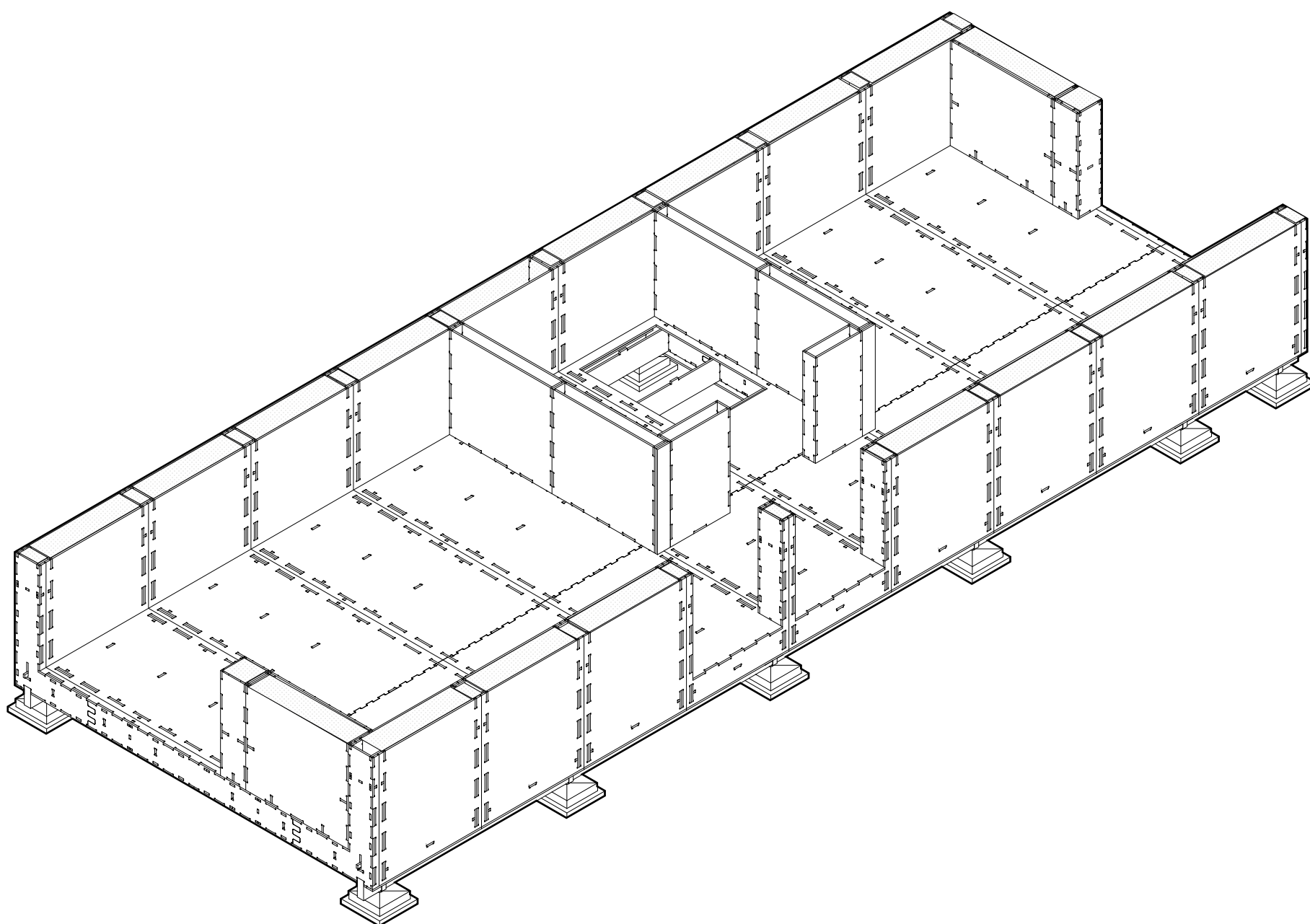
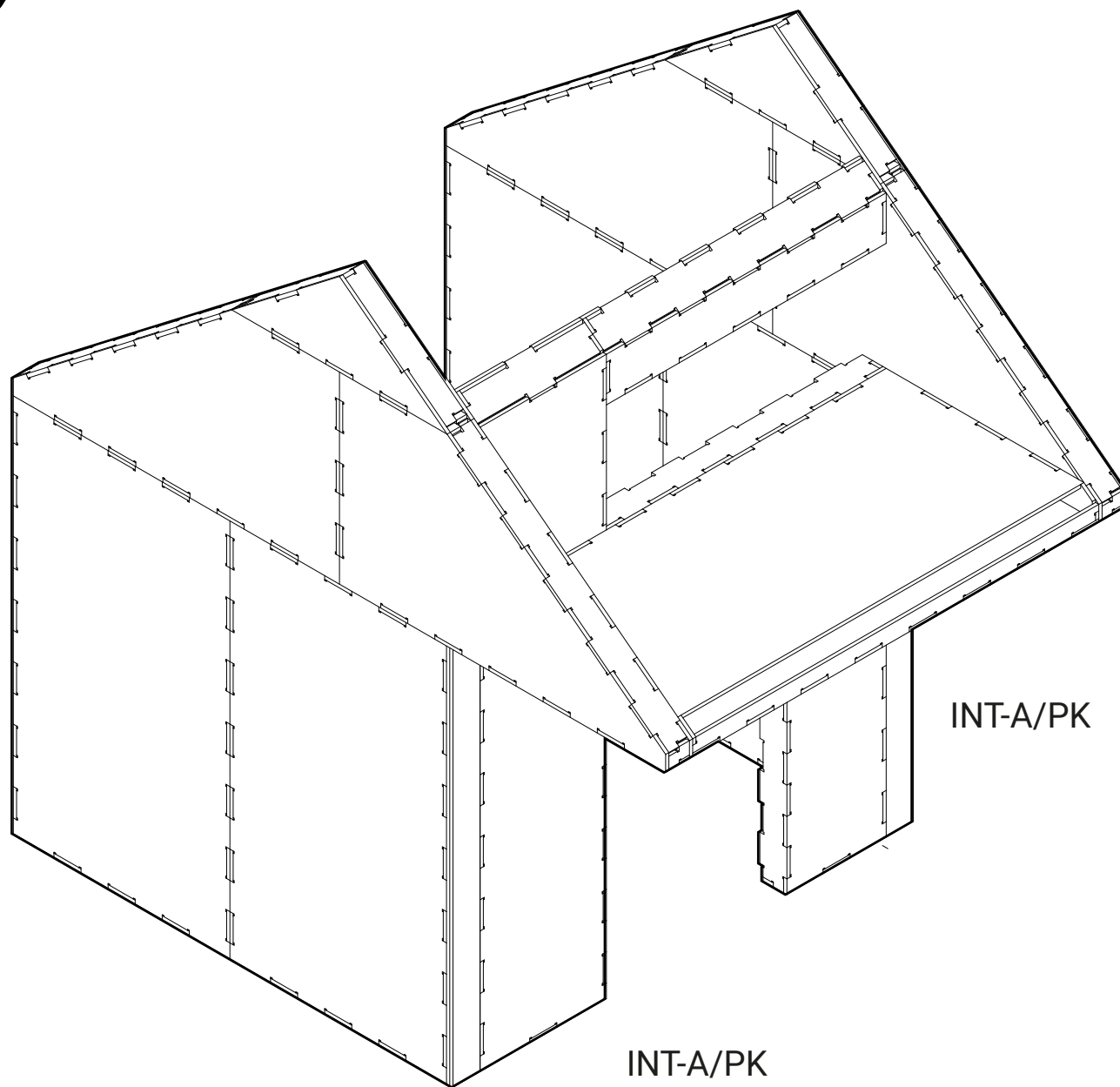
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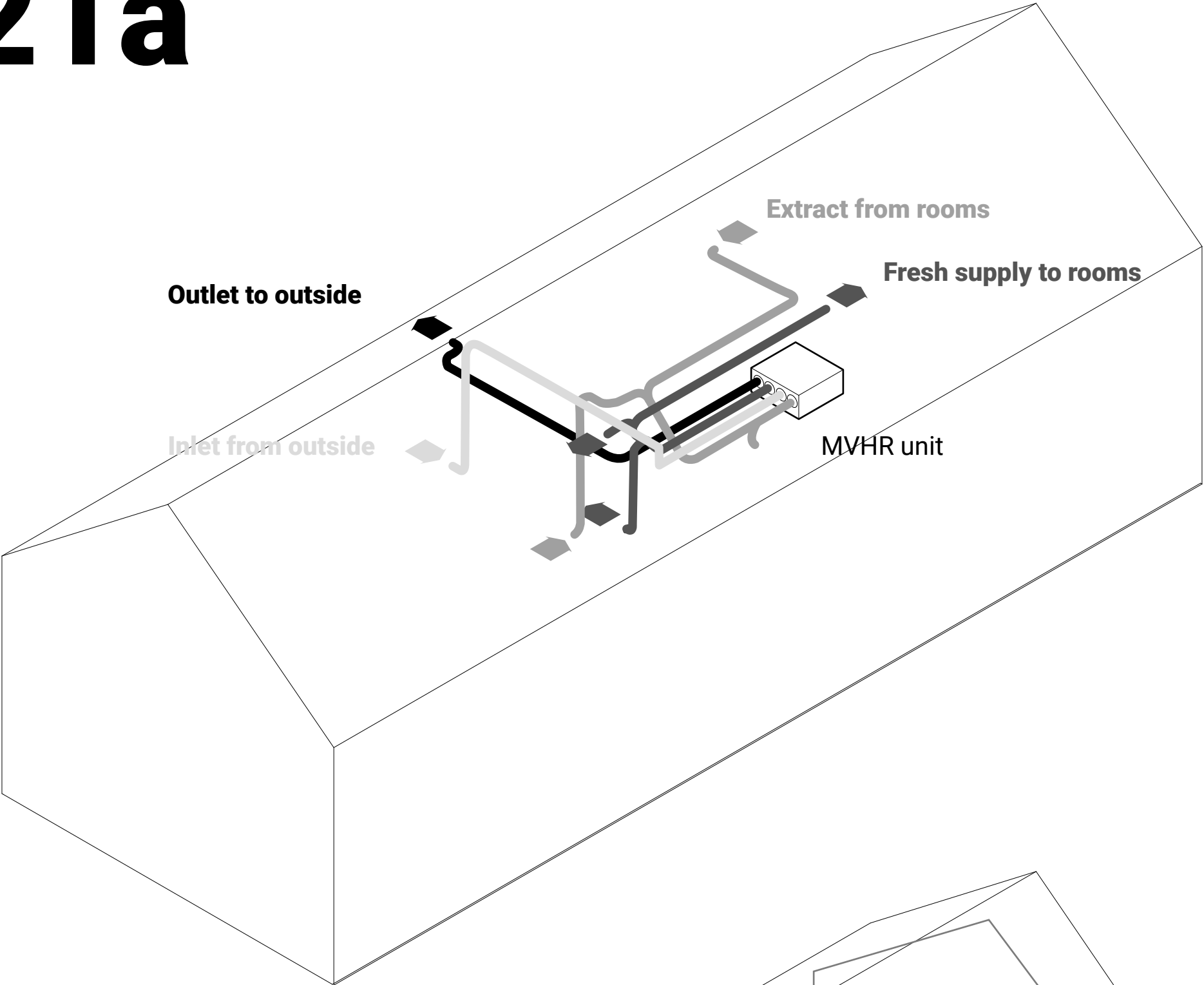


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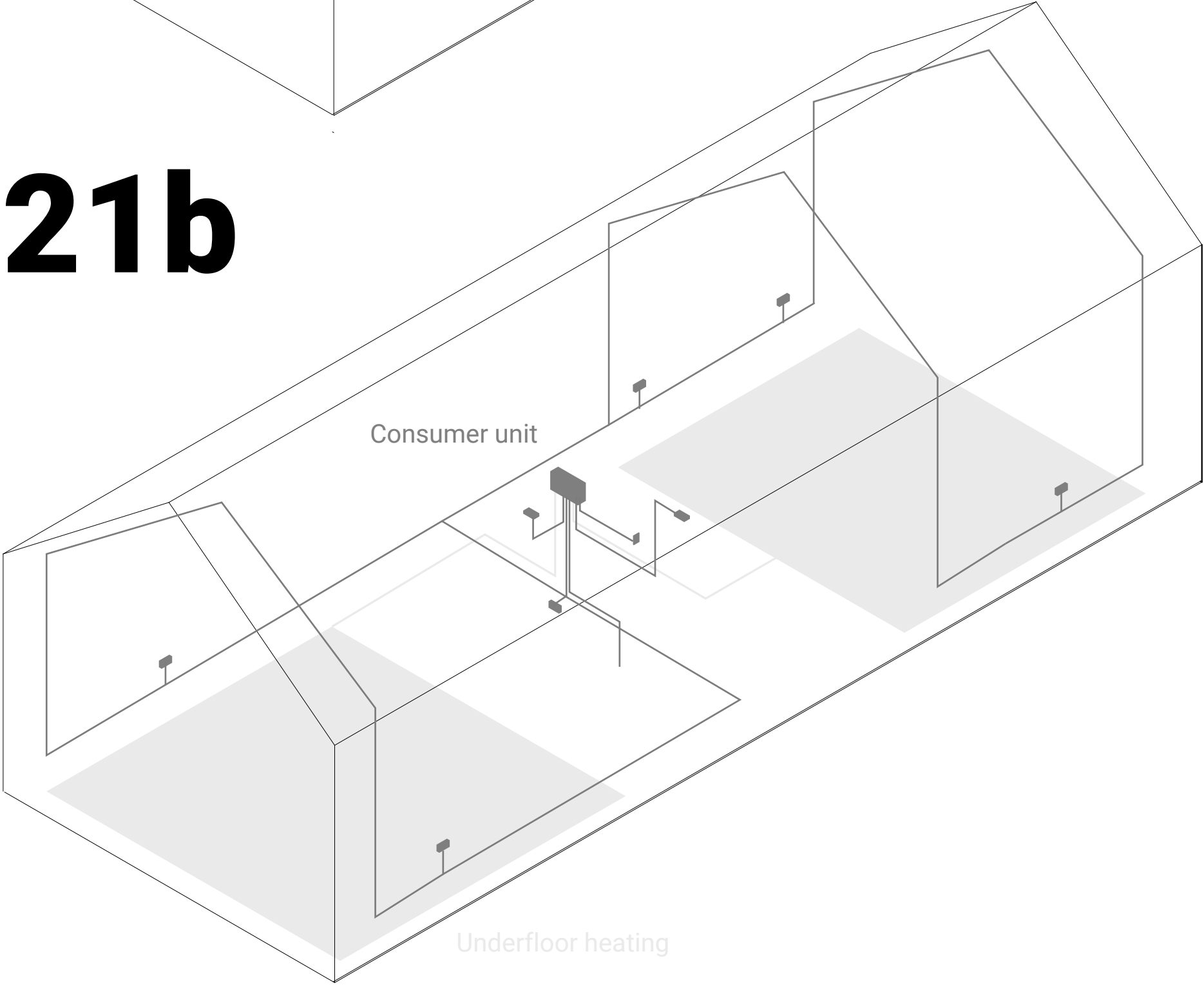
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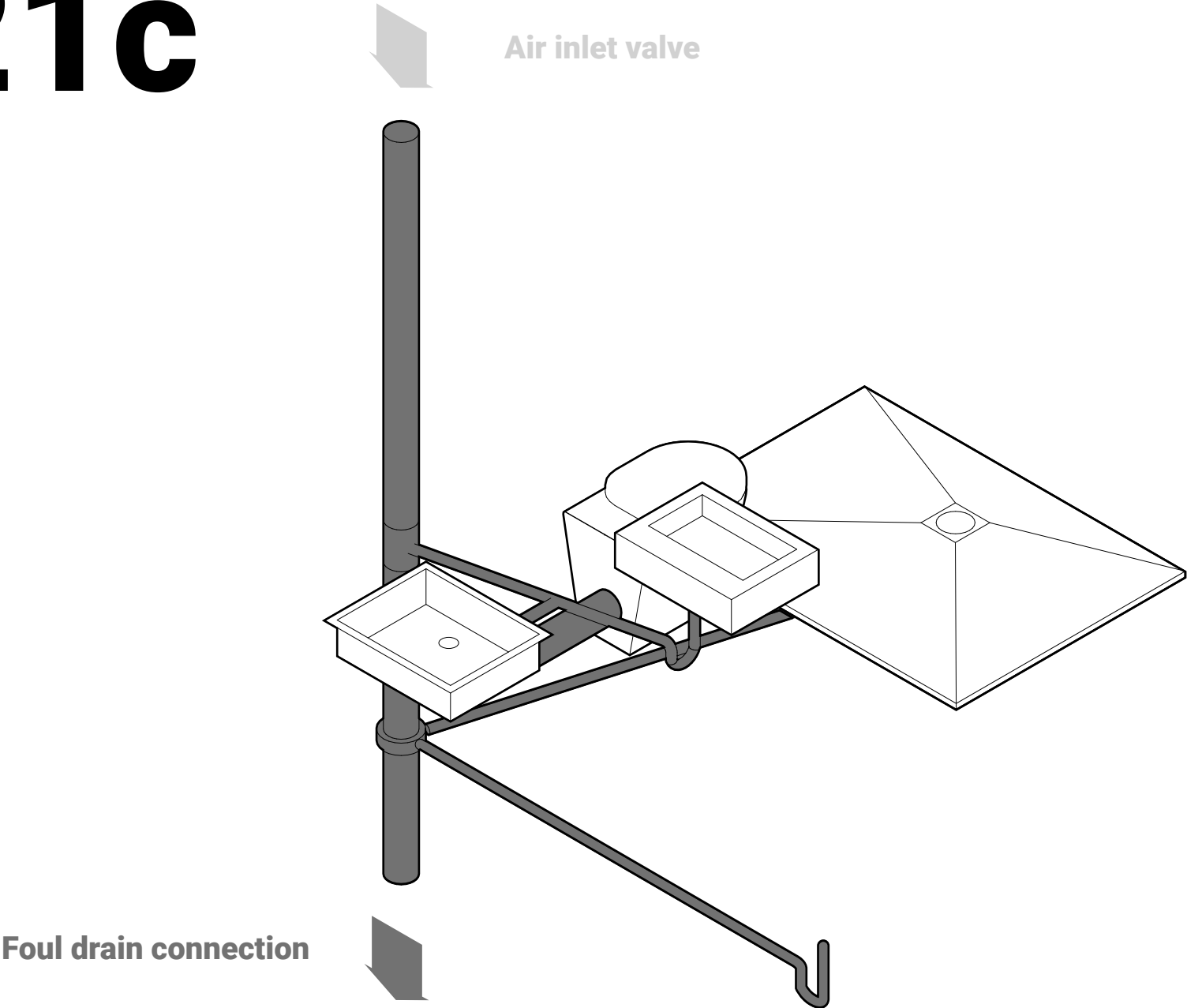


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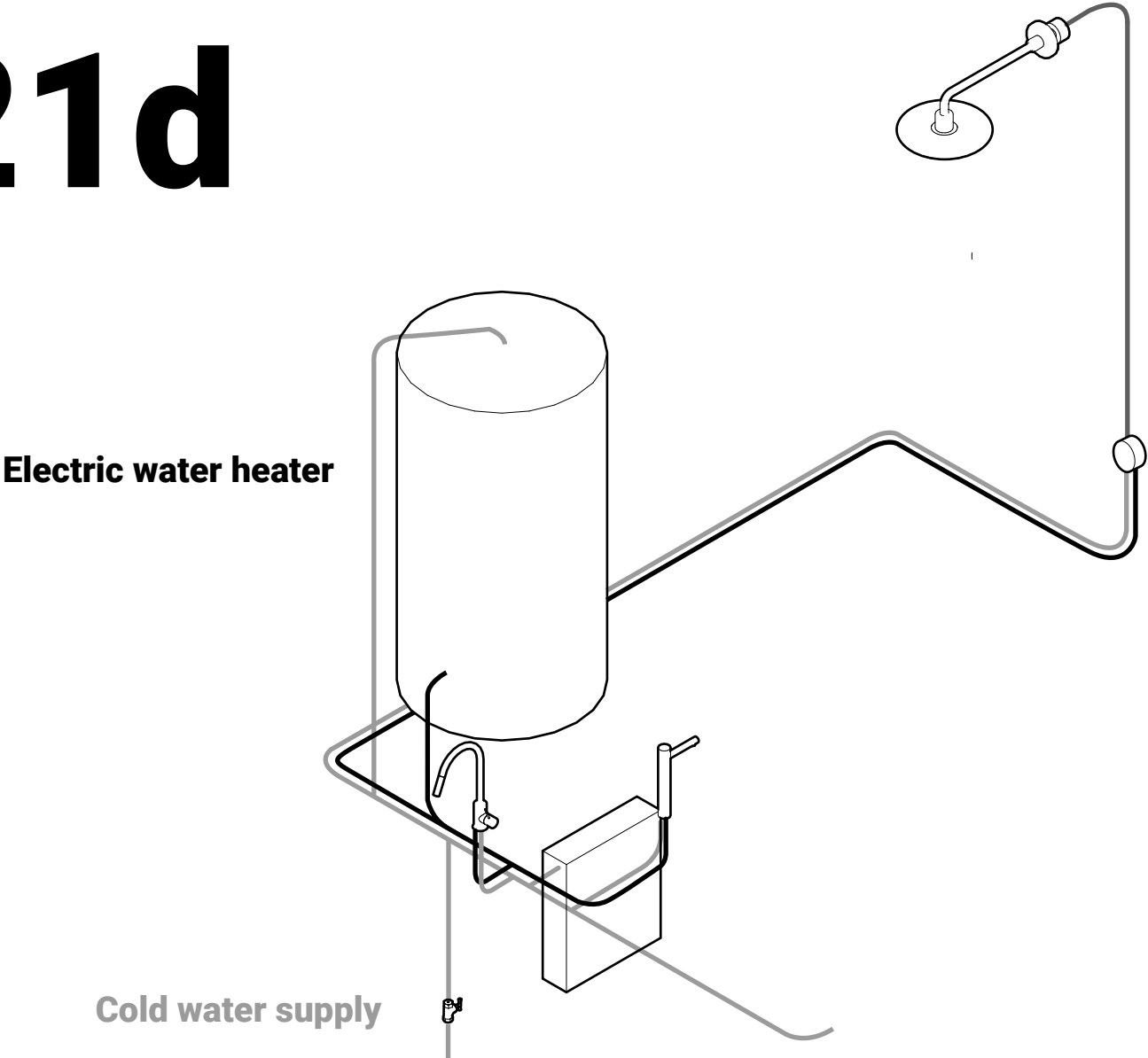
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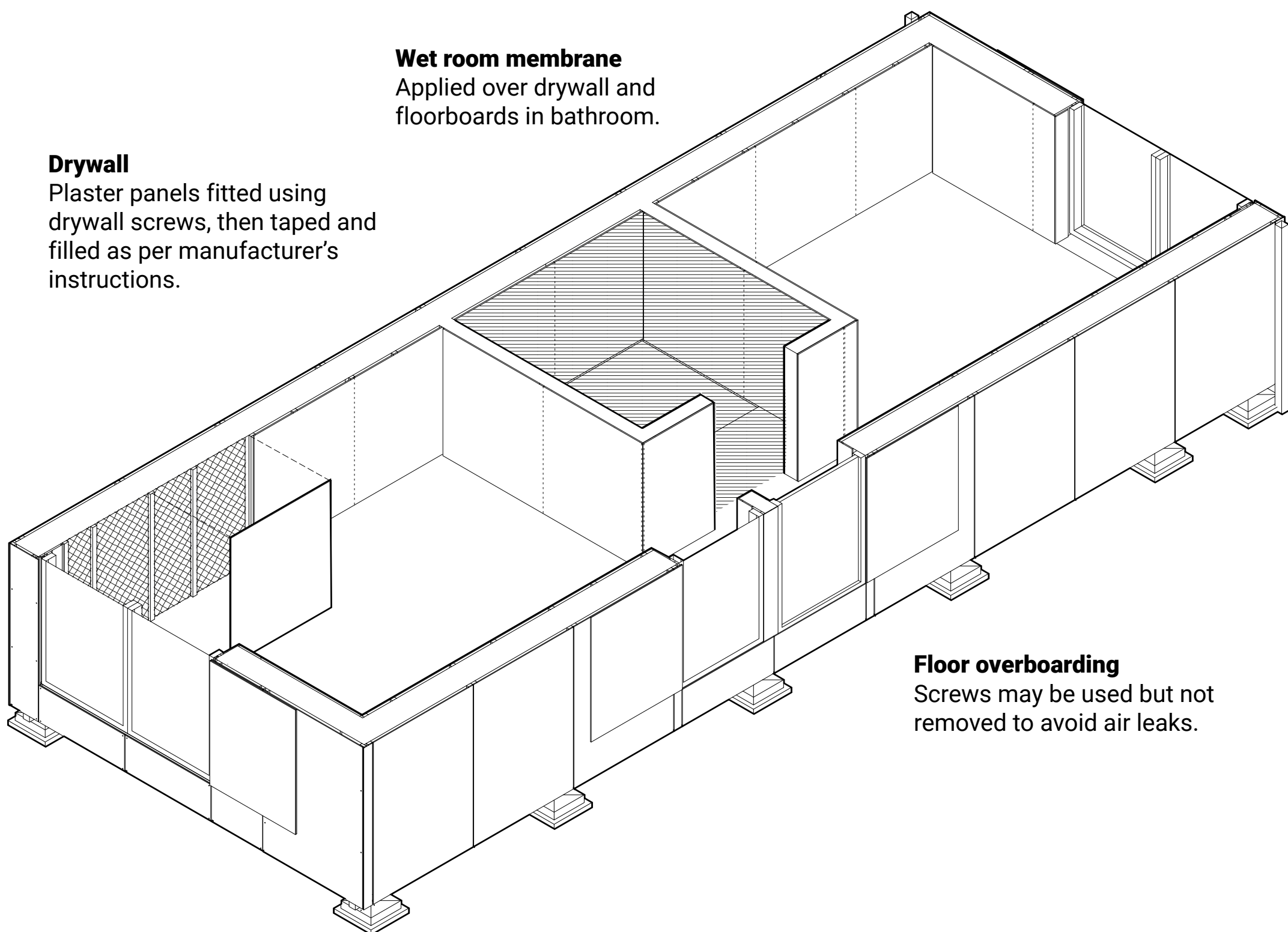
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Drywall

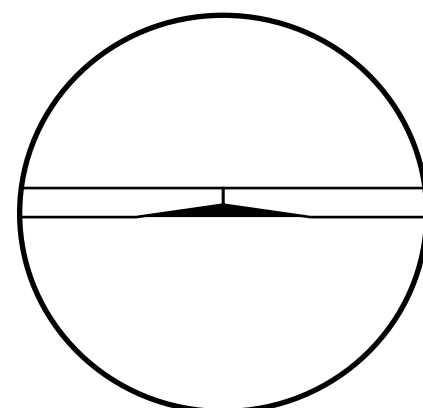
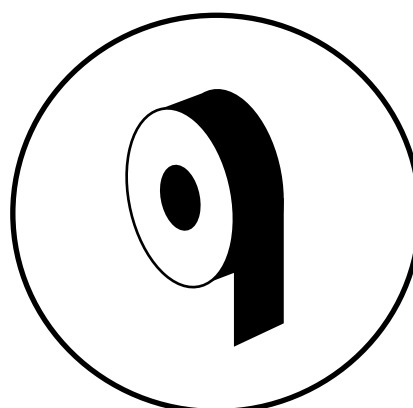
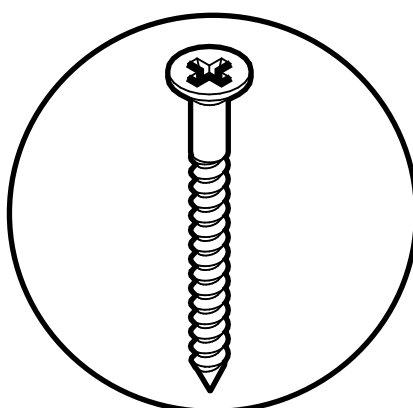
Plaster panels fitted using drywall screws, then taped and filled as per manufacturer's instructions.

Wet room membrane

Applied over drywall and floorboards in bathroom.

Floor overboarding

Screws may be used but not removed to avoid air leaks.

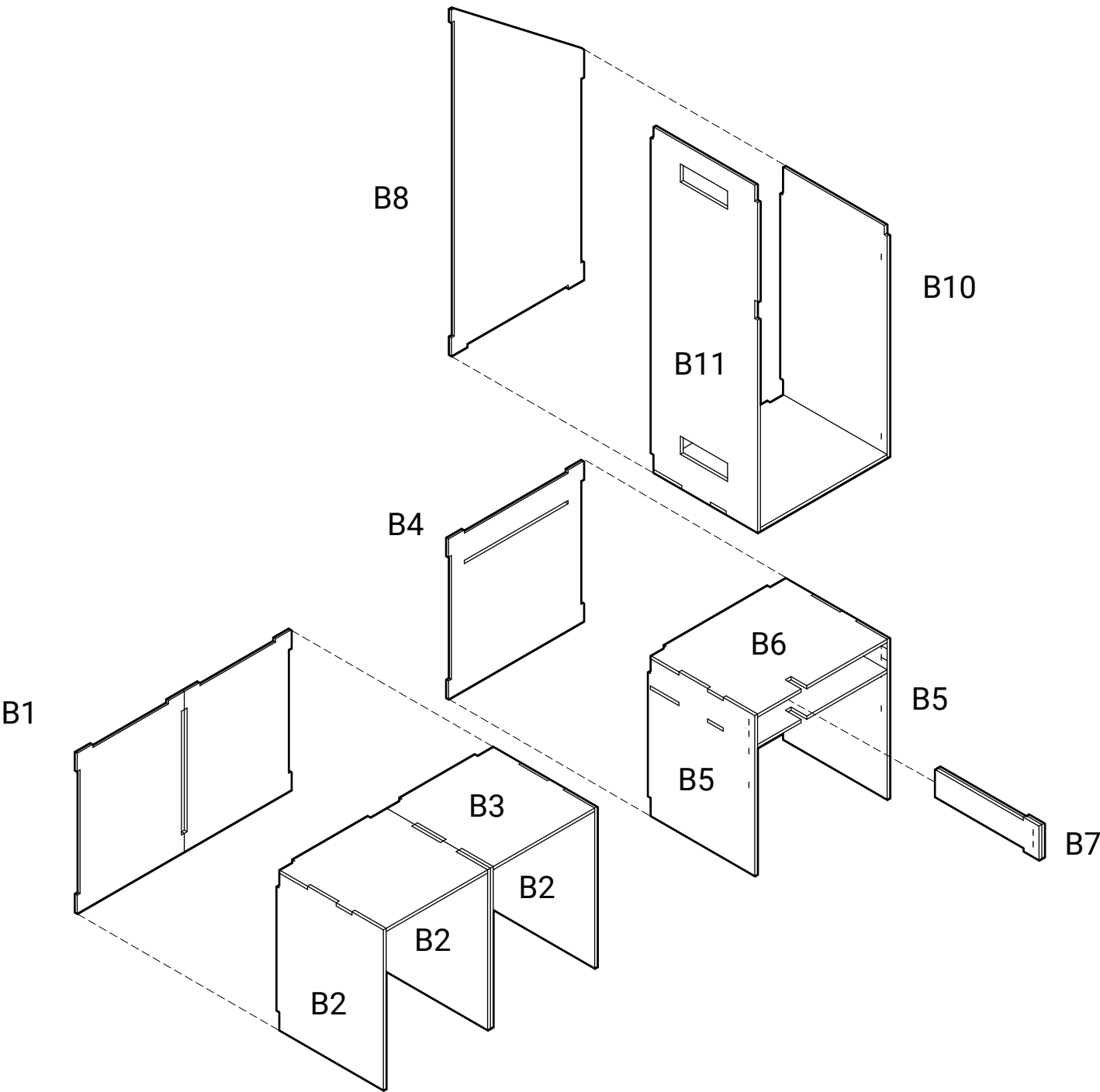


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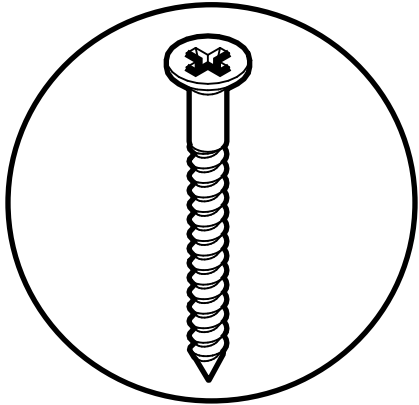
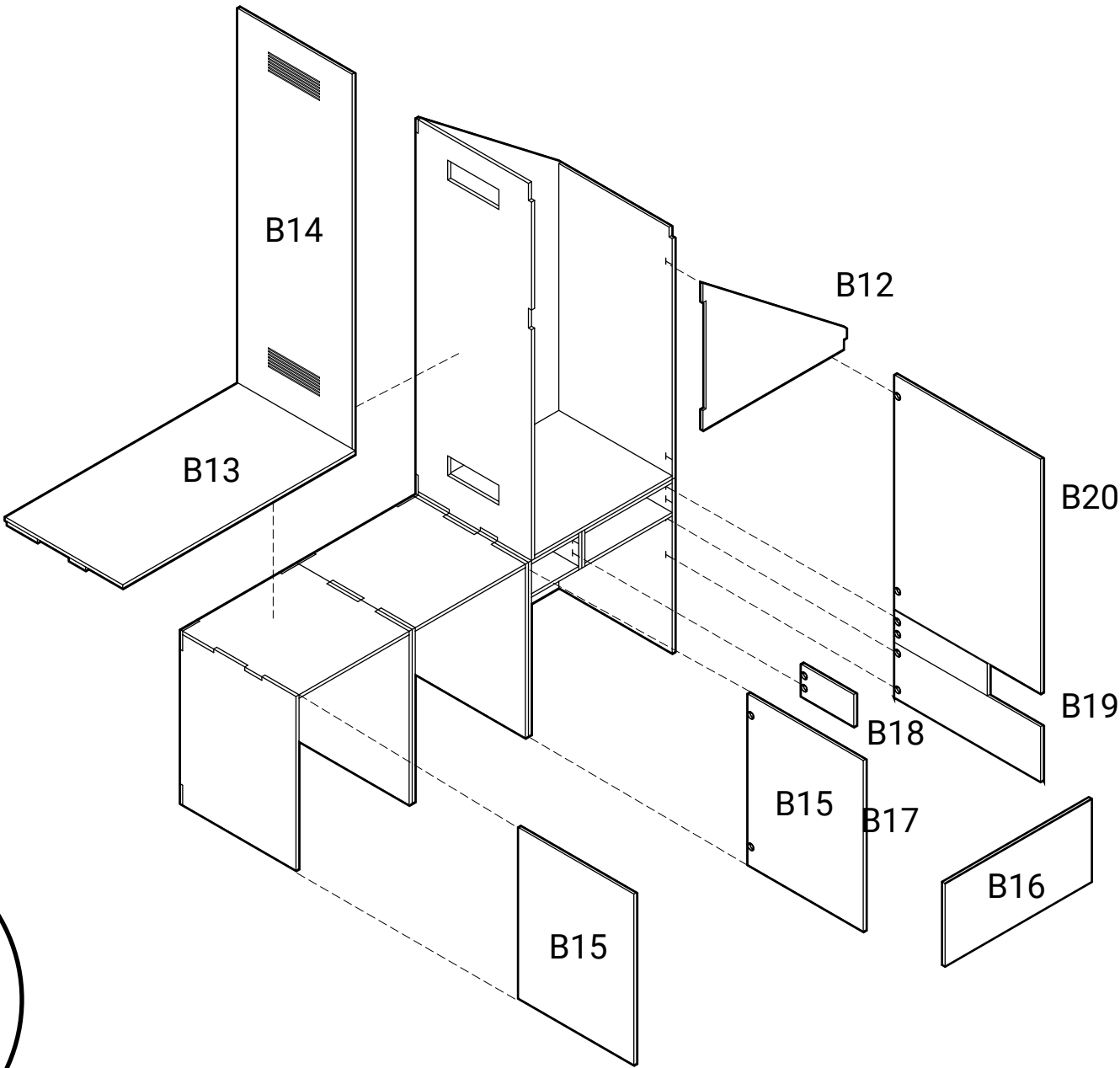
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<div><div>Micro House</div><div>Your project name</div></div>		22
v1.0	Date	Your name

23a



23b



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<div><div>Micro House</div><div>Your project name</div></div>			23
v1.0	Date	Your name	

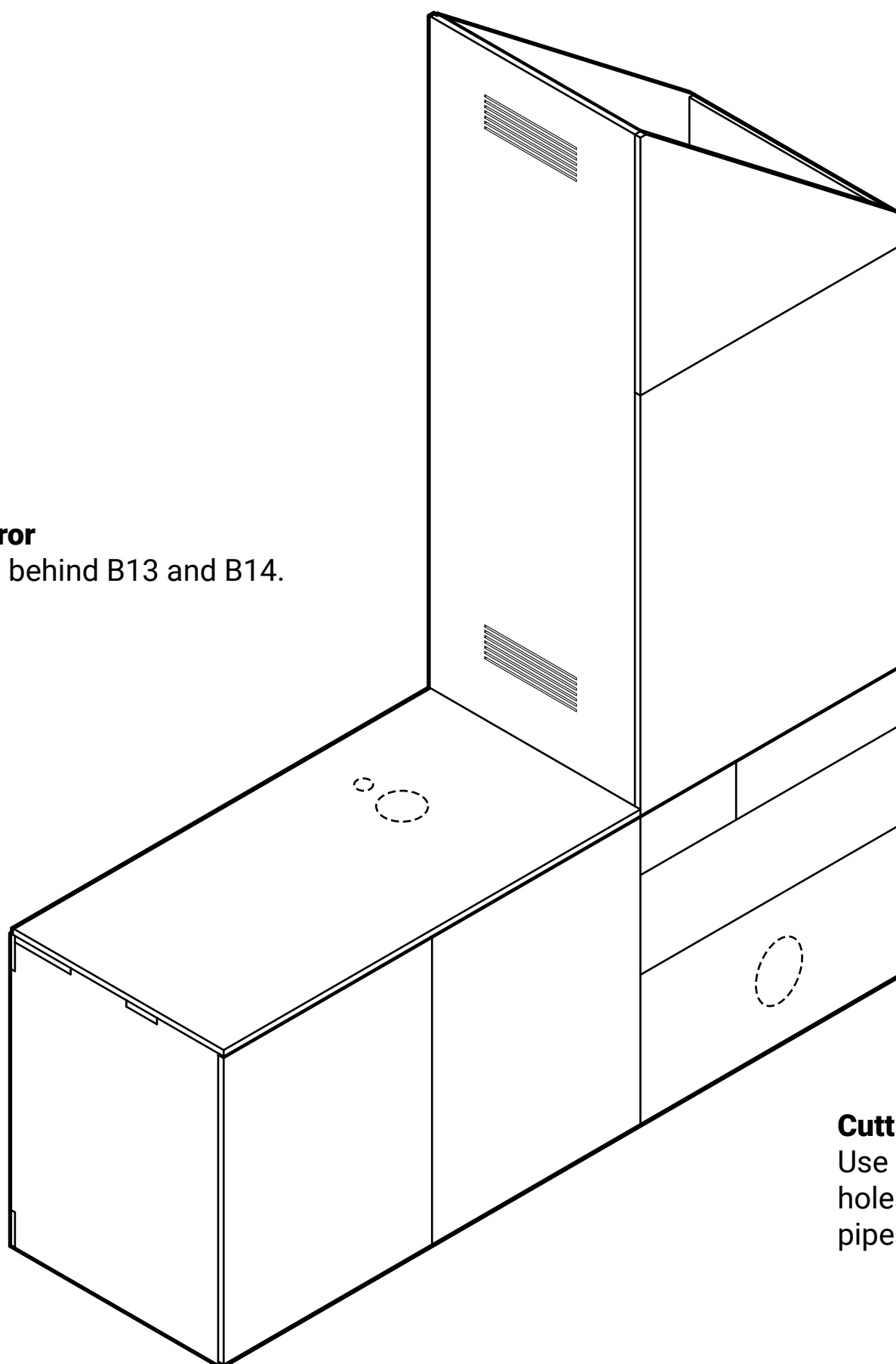
23

No visible screws

Parts B13, B14, B16 and B21 should be screwed from inside, so no screwheads are visible from outside.

Mirror

Sits behind B13 and B14.



Cutting holes

Use a drill or jigsaw to cut holes in the unit to fit around pipes where needed.

Bumper push latch

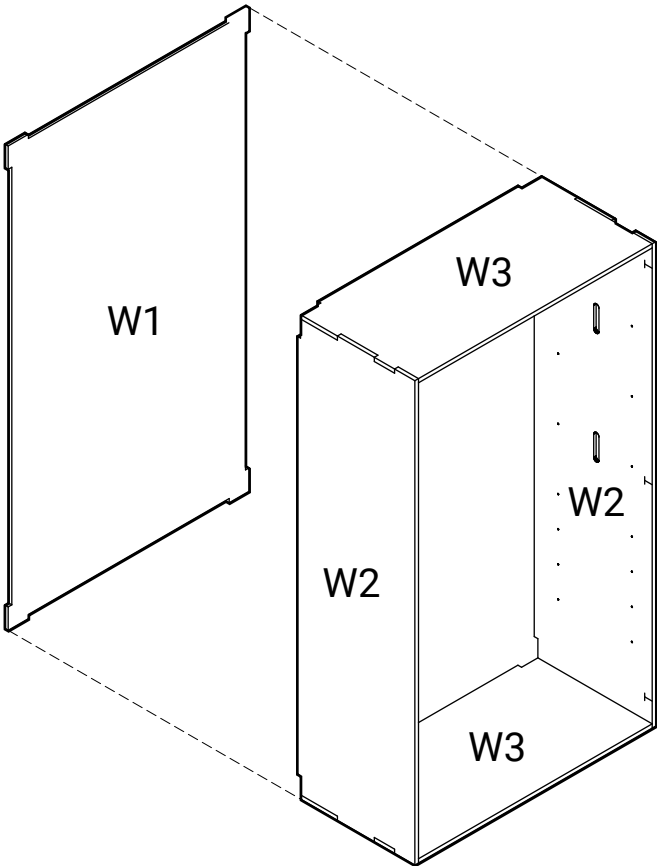
Fit by hand to all doors

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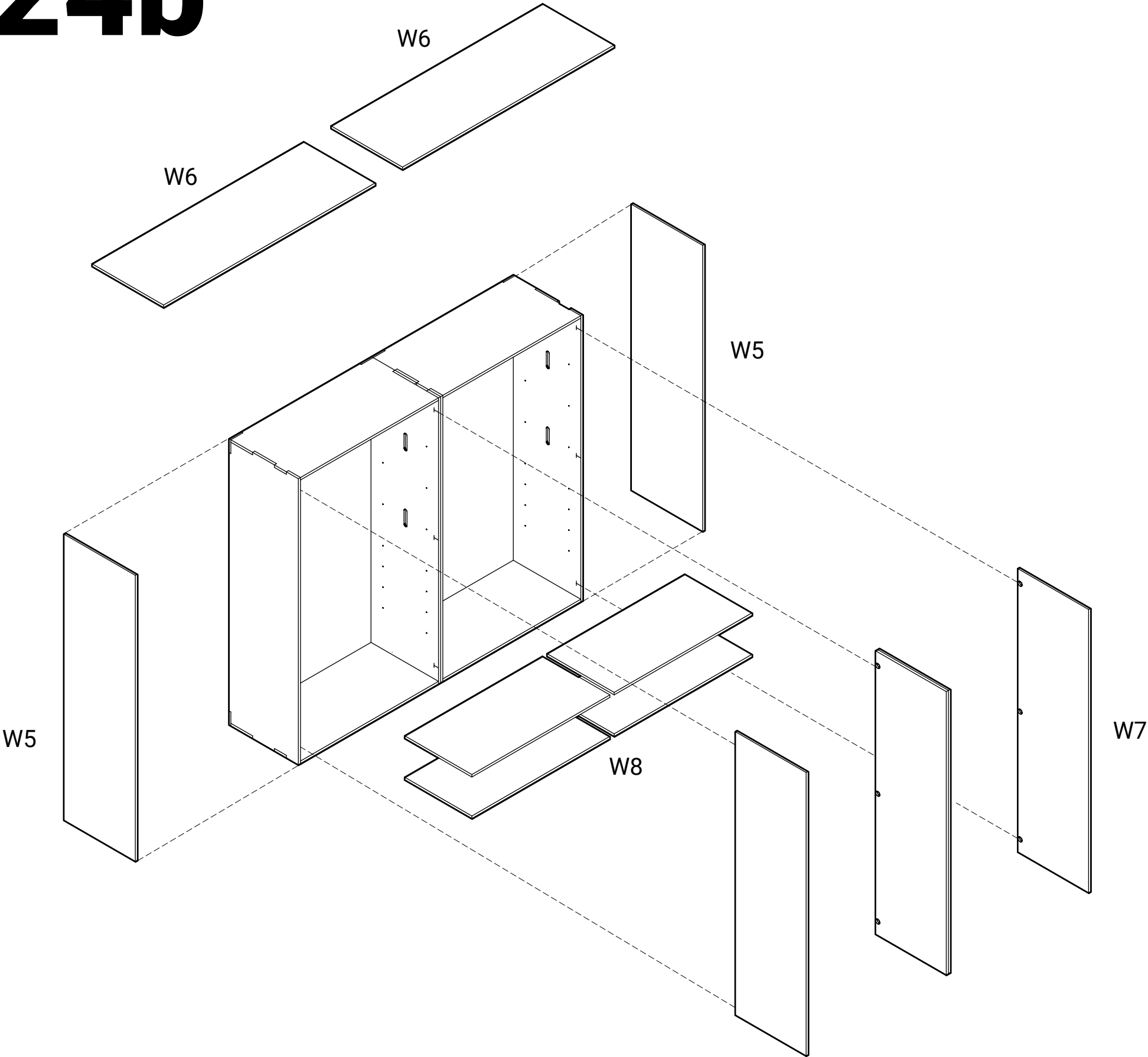
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<div><div>Micro House</div><div>Your project name</div></div>			23
v1.0	Date	Your name	

24a



24b

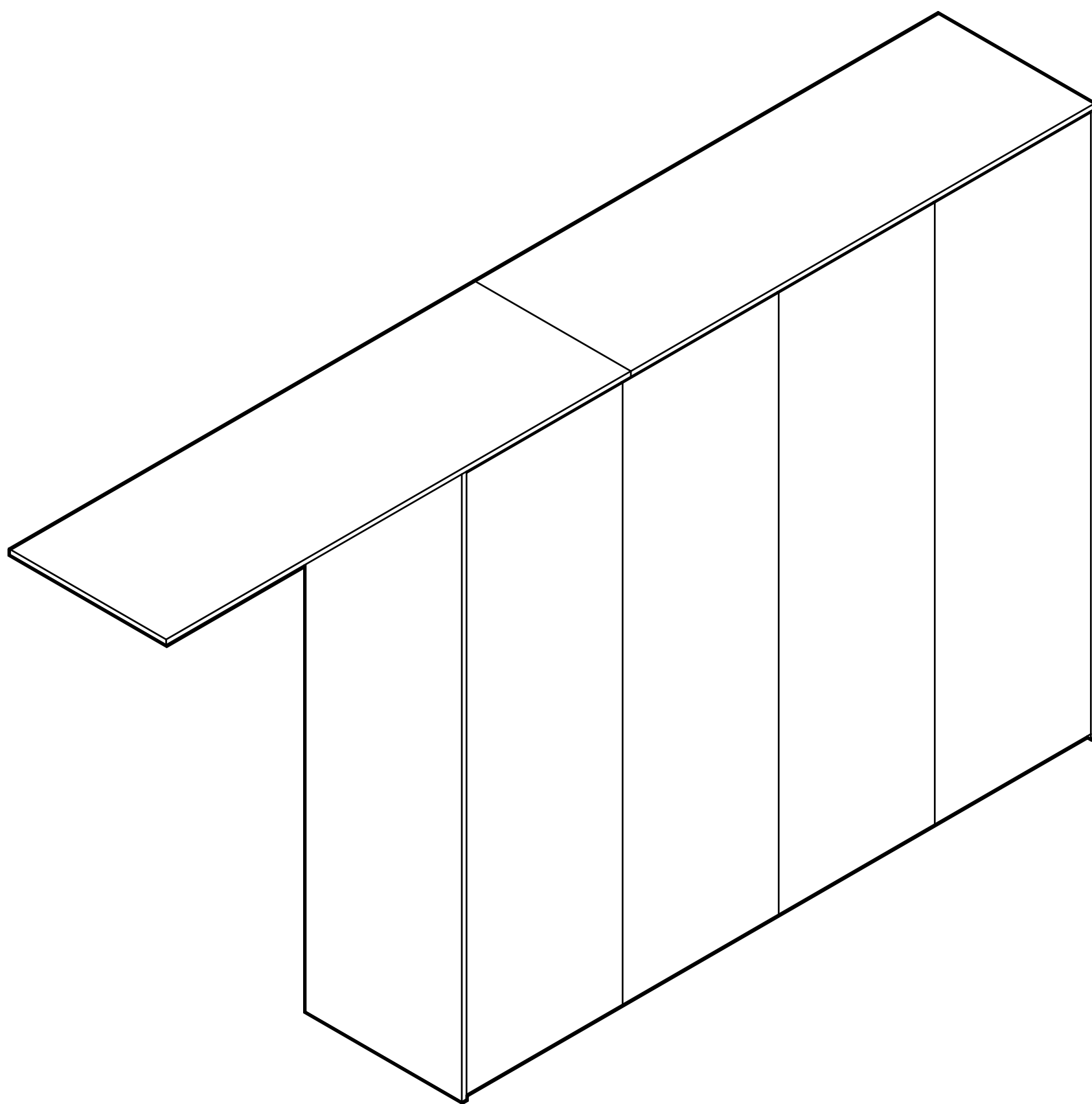


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<div><div>Micro House</div><div>Your project name</div></div>		24
v1.0	<div>Date</div>	

24c

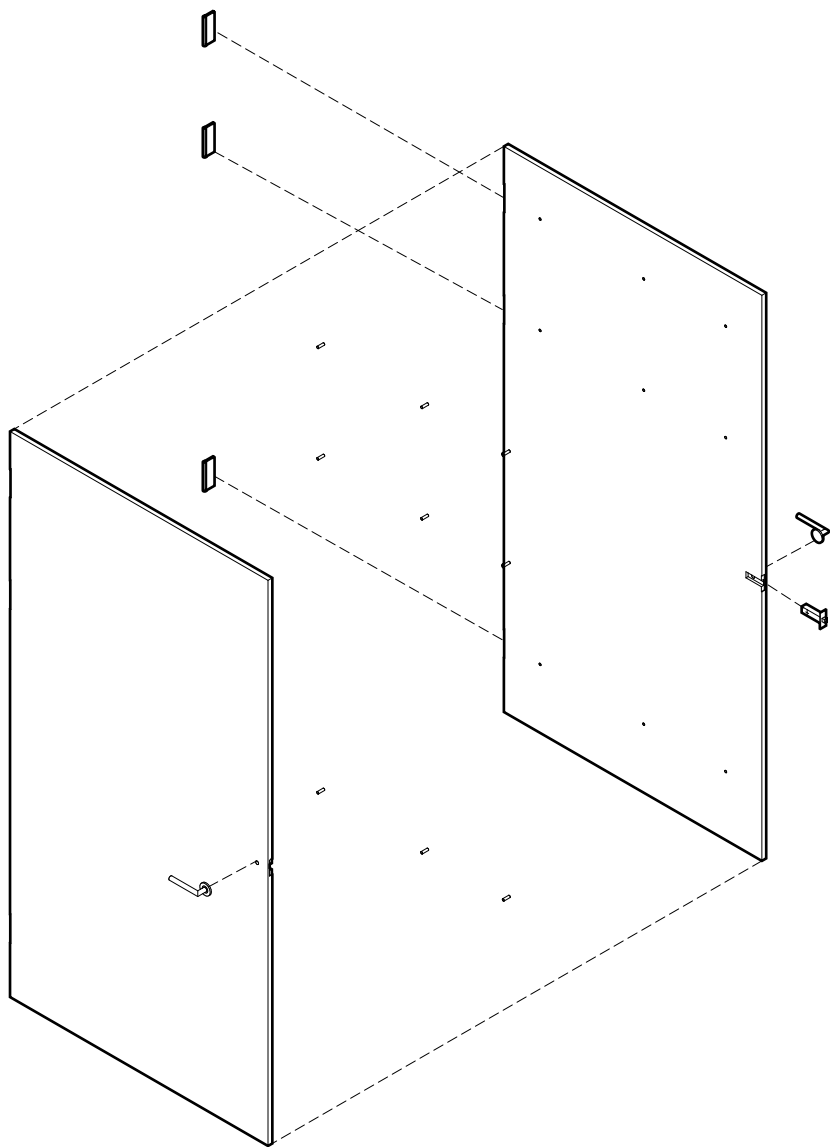


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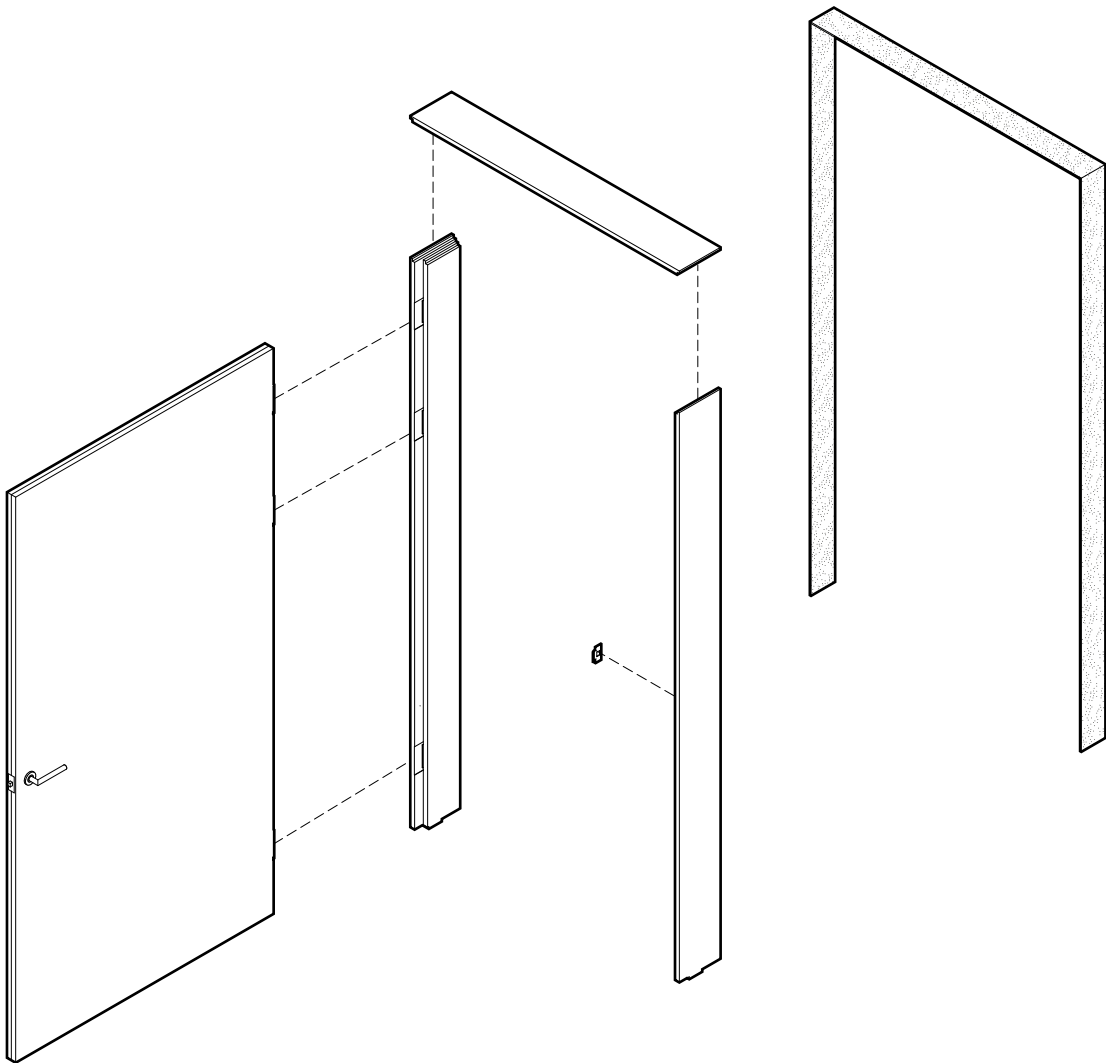
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<div><div>Micro House</div><div>Your project name</div></div>			24
v1.0	Date	Your name	

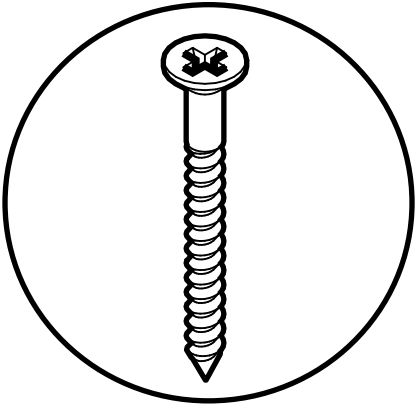
25a



25b



Packer
Use cork packer
between frame and
opening where
needed.



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