

MICRO HOUSE

A one bedroom low-energy home

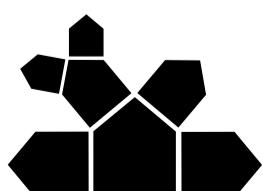
Floor area 37.5m²

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



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You are responsible for using the information in a safe way

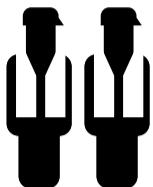
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Personal protective equipment (PPE)



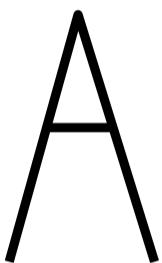
All construction is dangerous. Always wear hard hats, eye protection, ear protection (malleting gets very loud), gloves, high visibility outfits and steel-capped boots. Where working at height is required, use a harness. Establish a 'safety first' culture on site, and encourage the continuous identification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



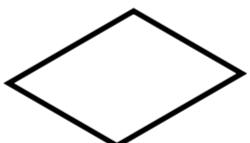
This assembly requires a limited amount of working at height to complete the roof. Do a risk assessment, and use appropriate stepladder and / or scaffolding as well as Step Ups to minimise the risk of falling. If in doubt, refer to www.hse.gov.uk

First Aid



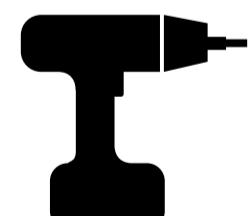
Before commencing, check there is a First Aid kit and appropriate Fire Extinguisher on site, and if possible, identify a qualified first-aider. Make sure you record important contact and medical information from everyone on site.

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.

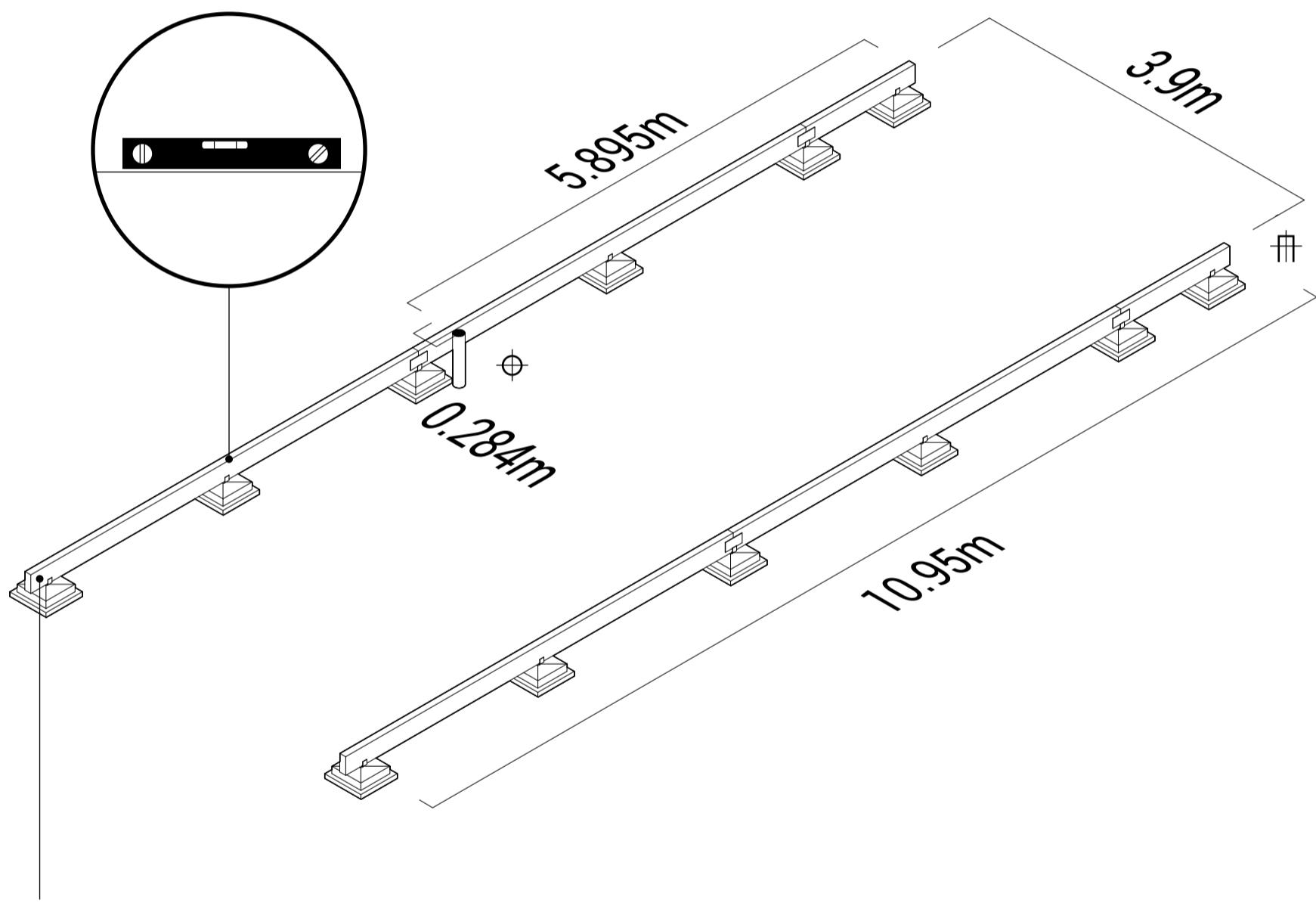
Tools



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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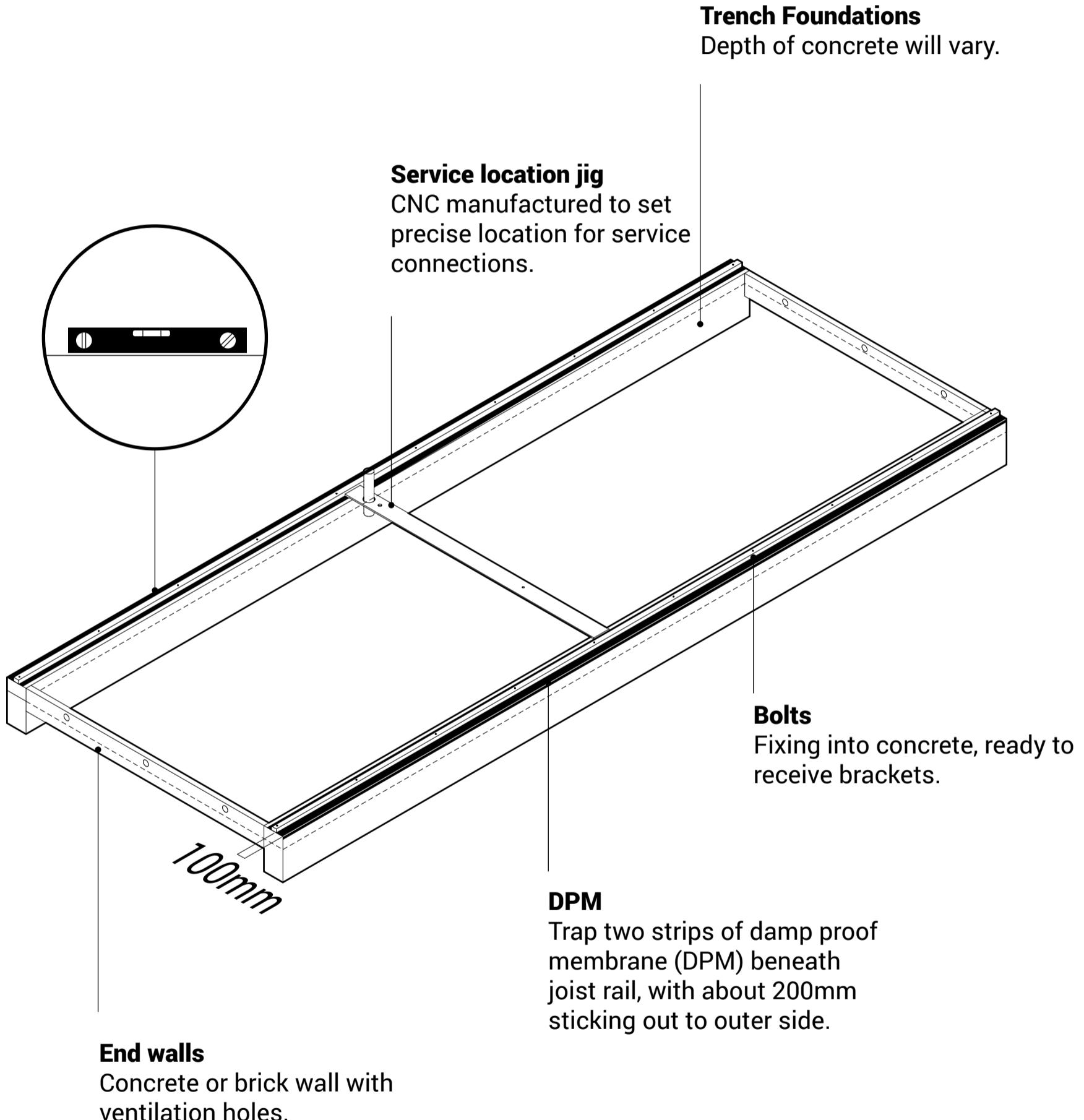
Timber Rails

Suggested 75mm wide
timber bearers.

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.

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Feedback / design modification suggestions

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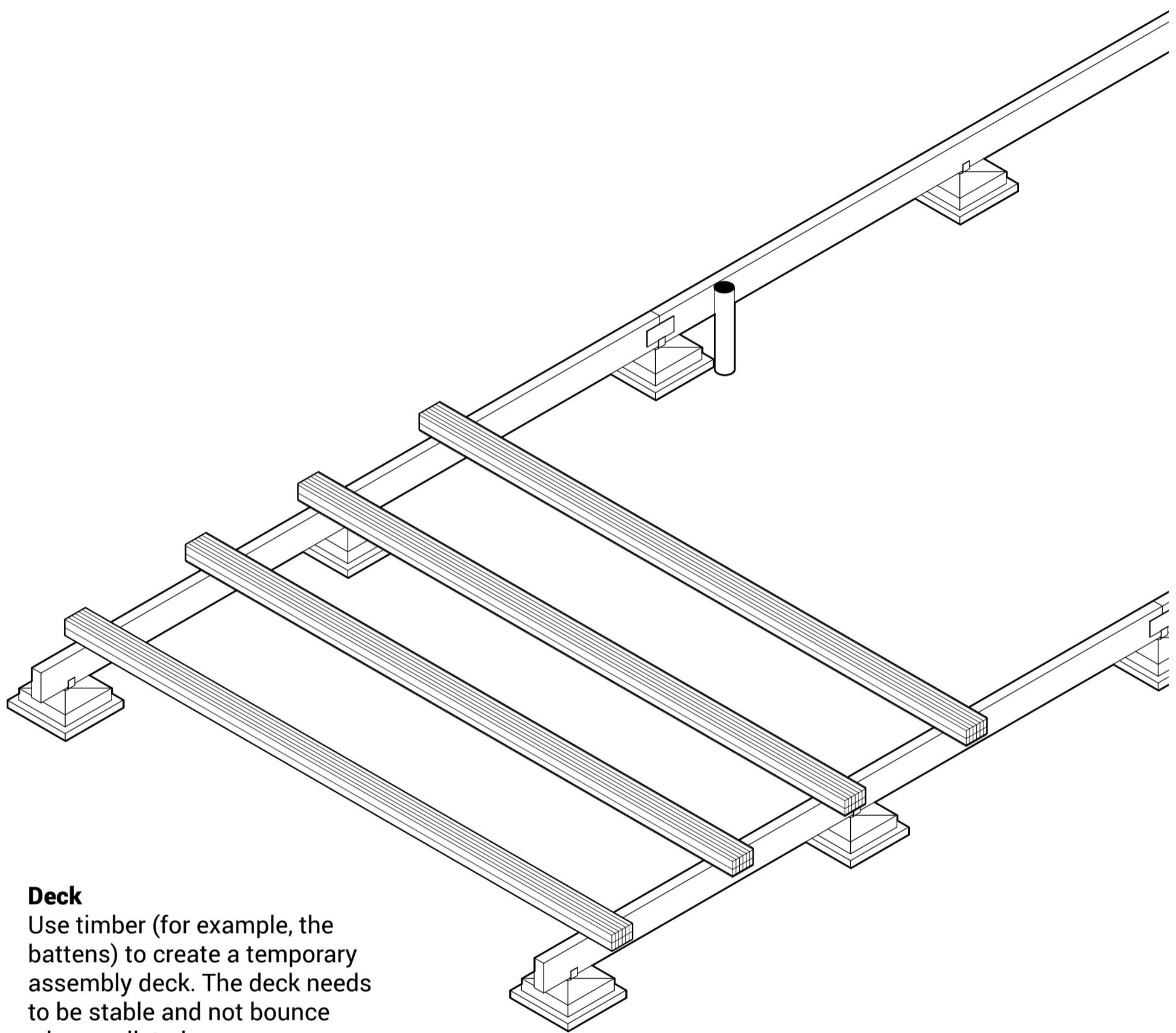
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Deck

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

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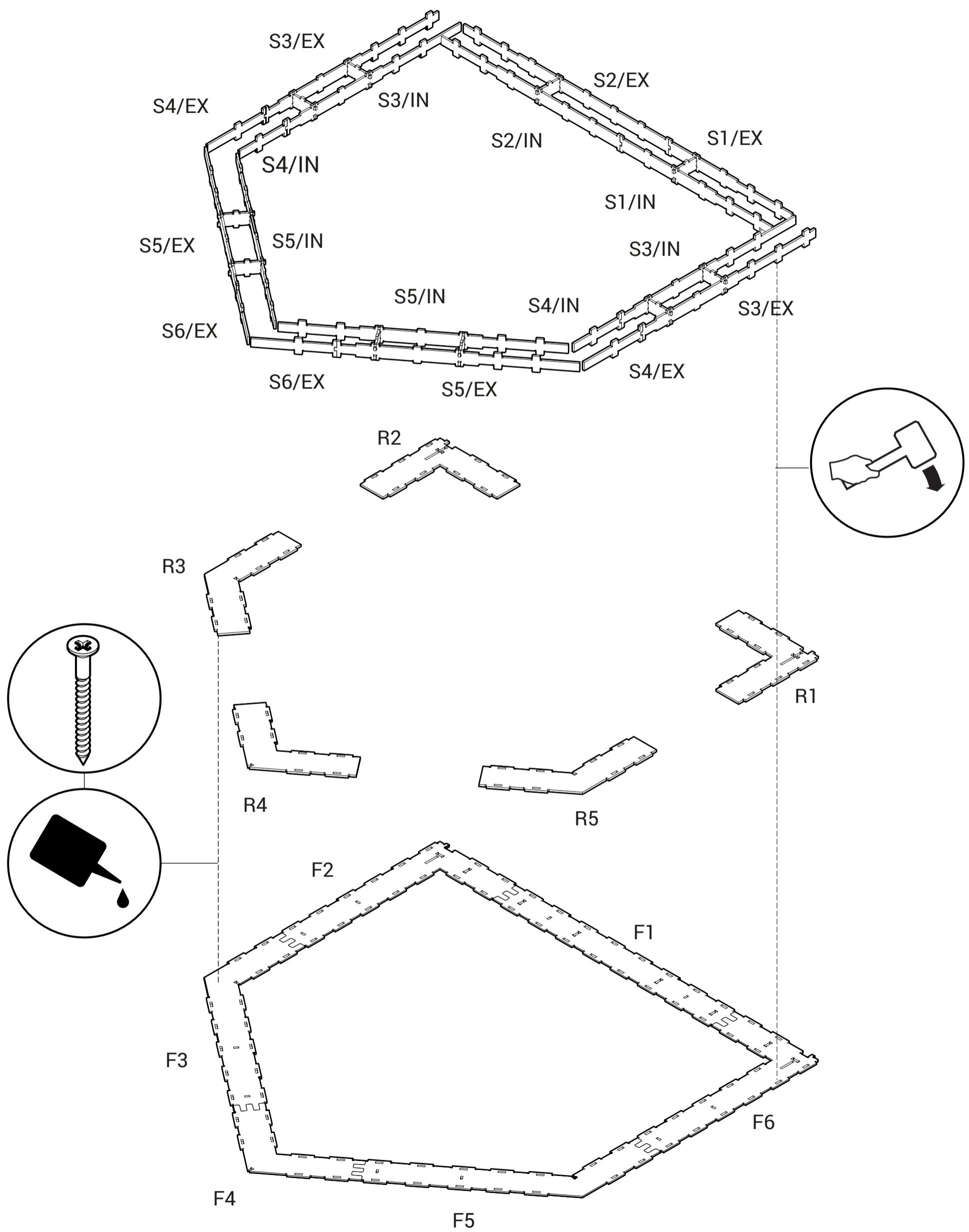
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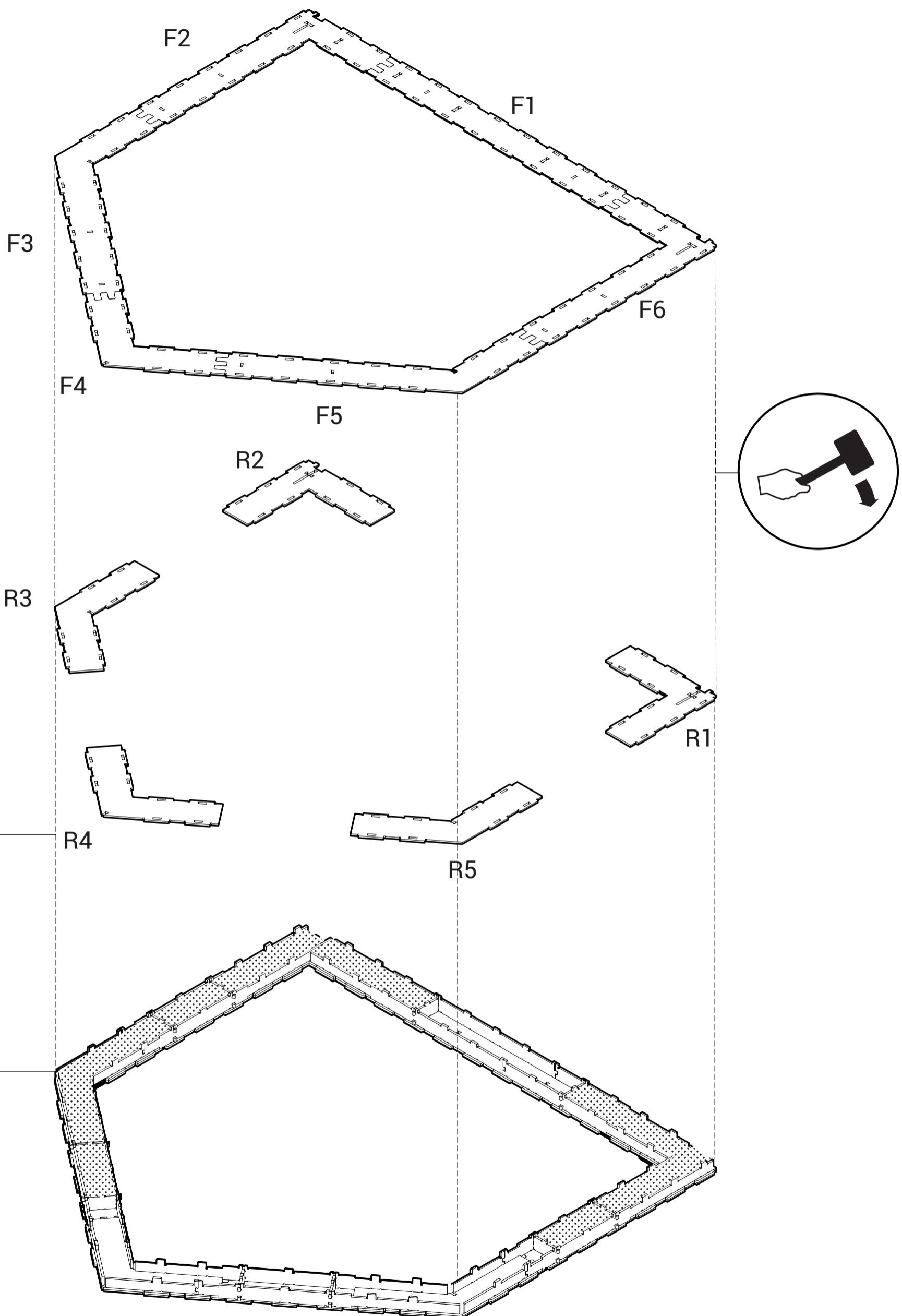
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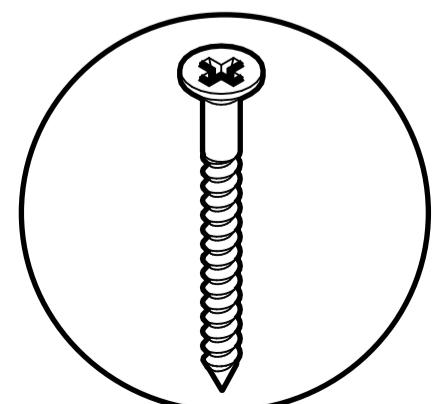
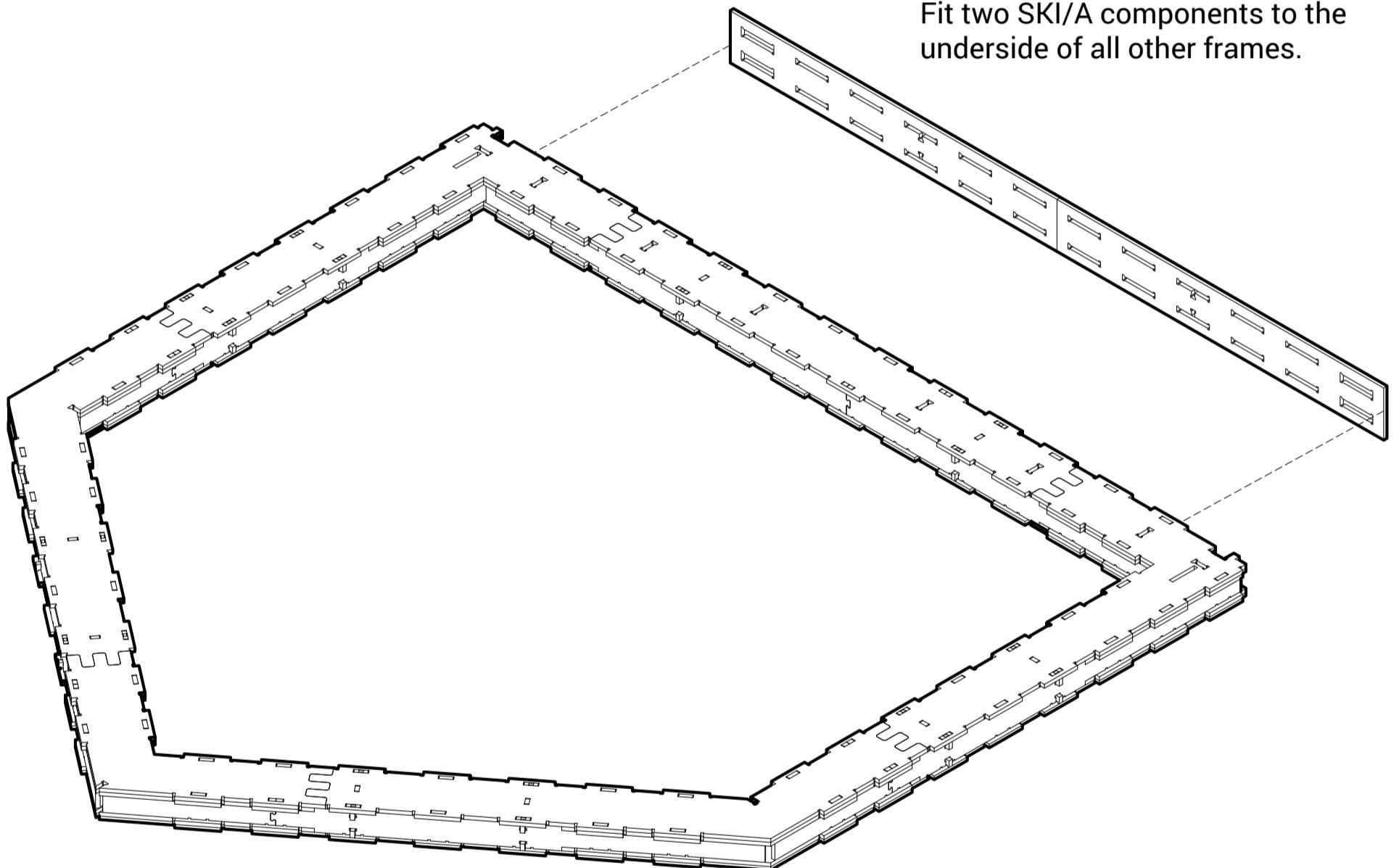
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Skis

Fit skis to underside of each superbox frame before raising.

Two SKI/B components should be installed on the first and last frame only.

Fit two SKI/A components to the underside of all other frames.



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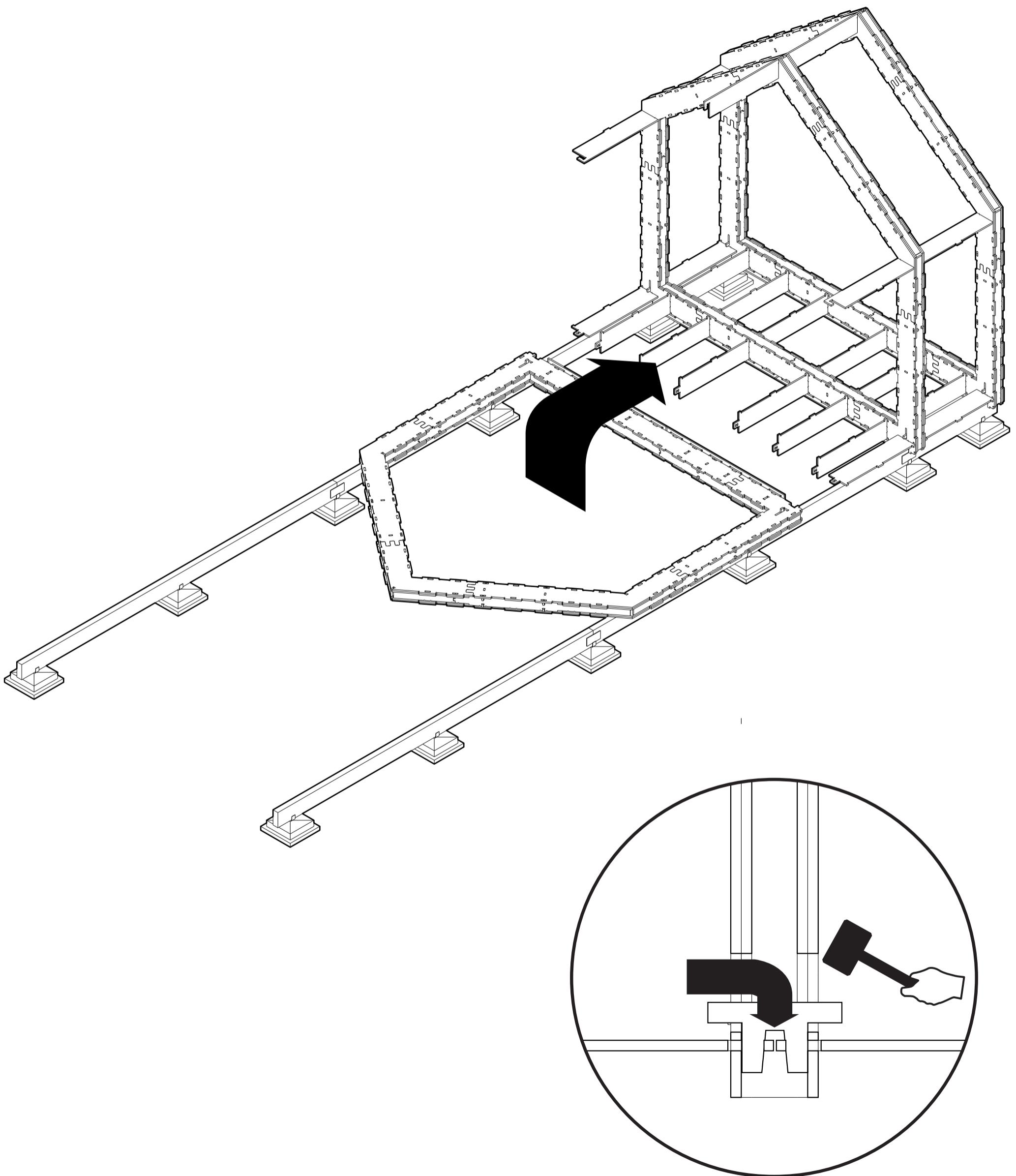
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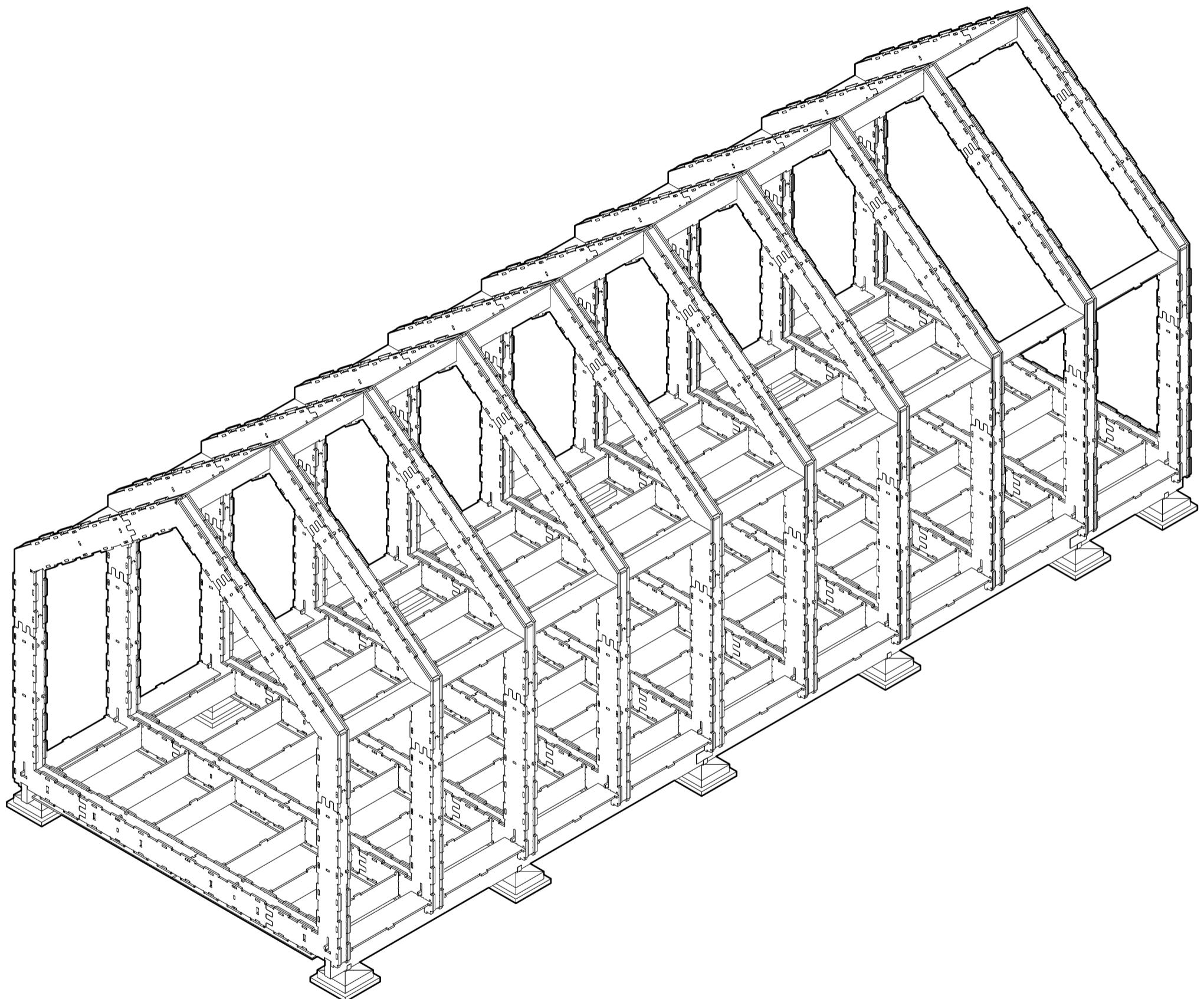
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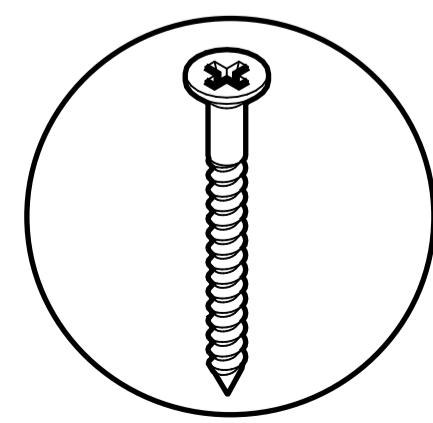
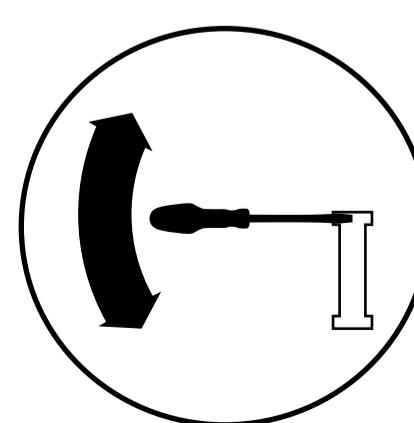
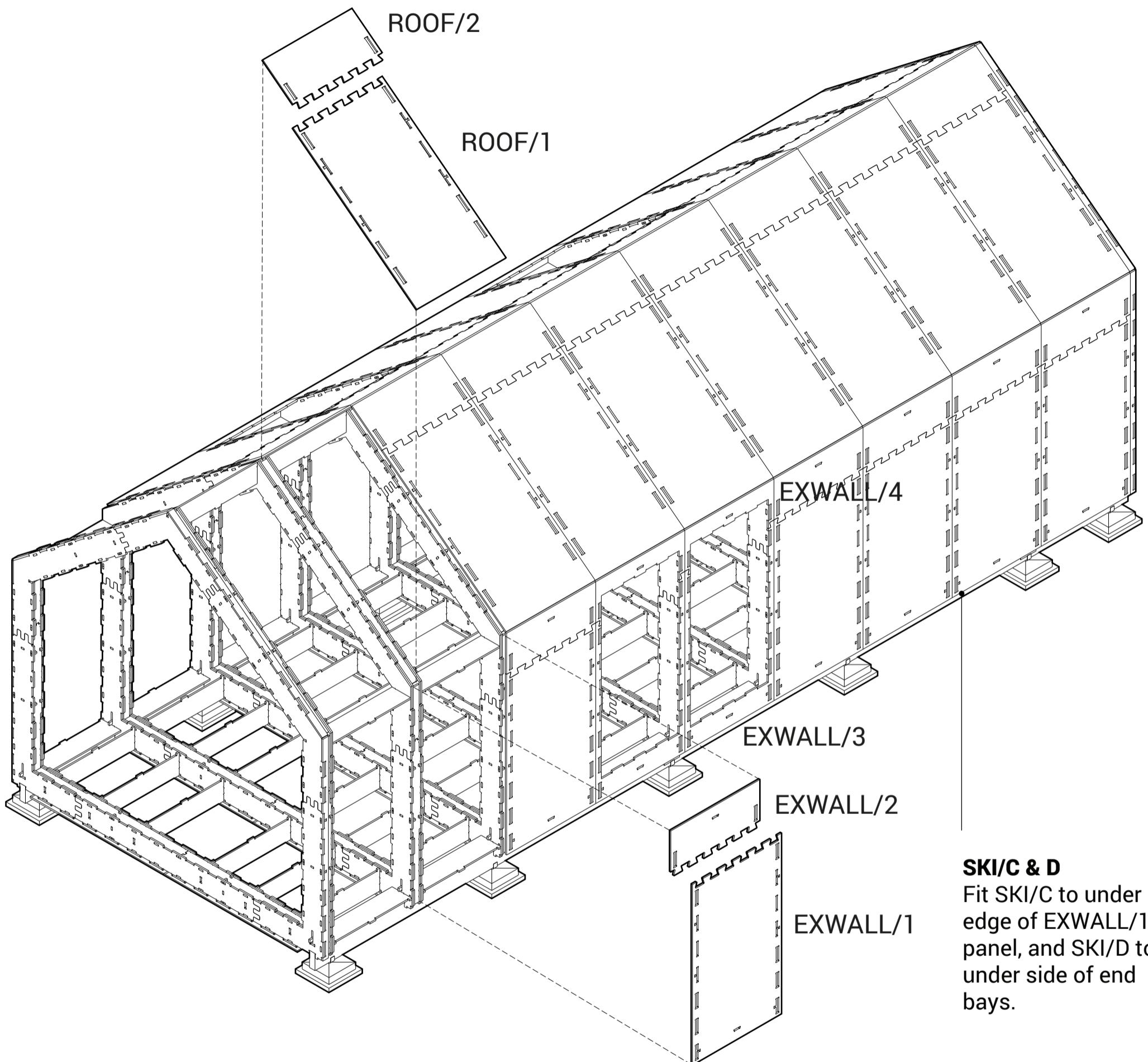
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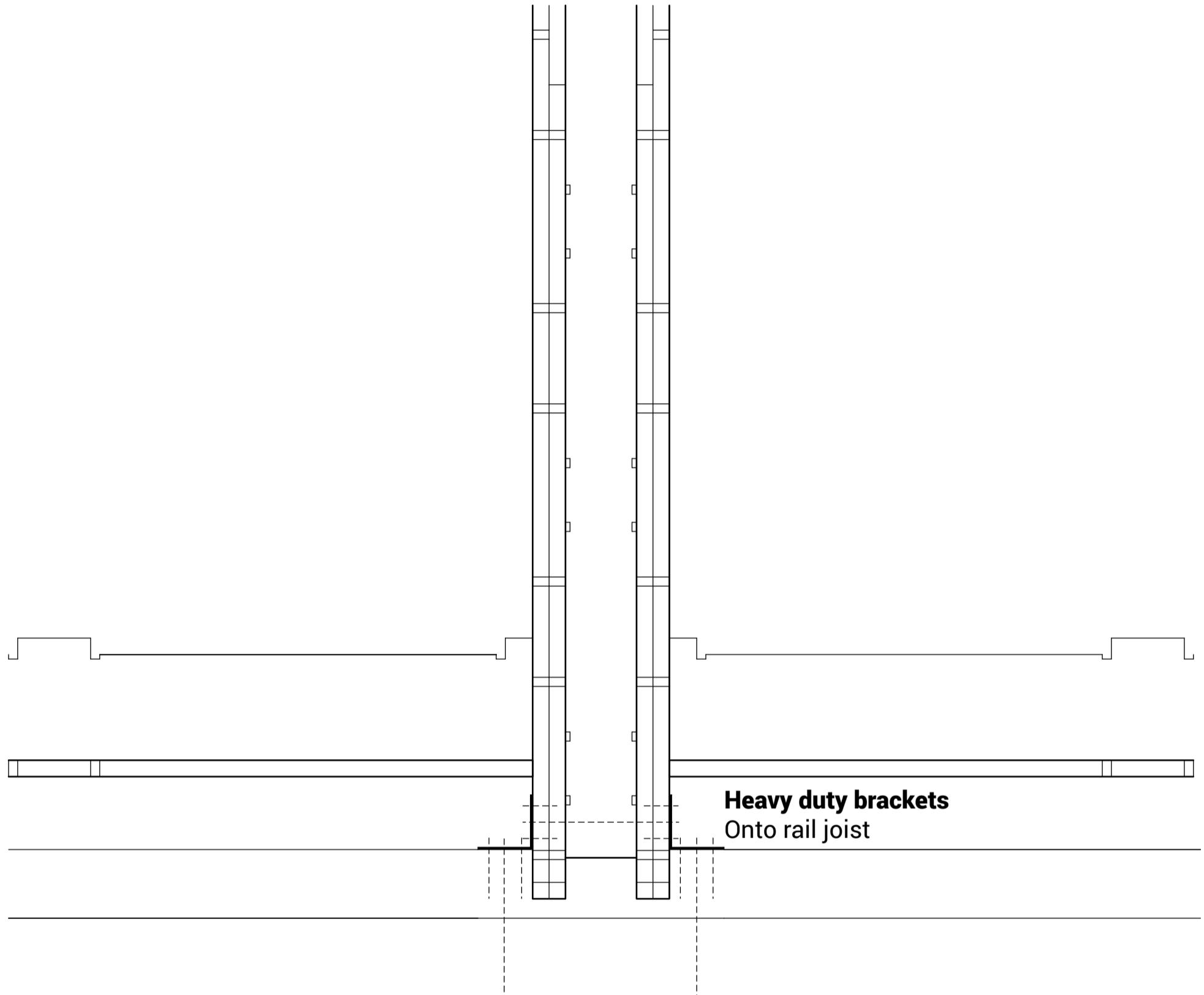
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Fixing down

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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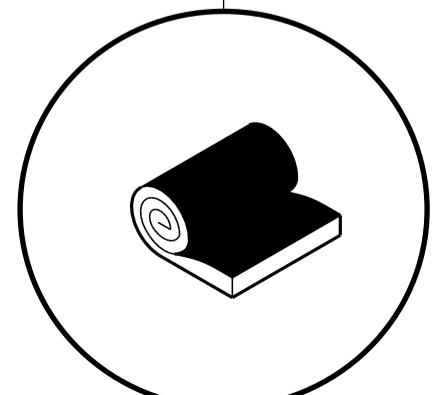
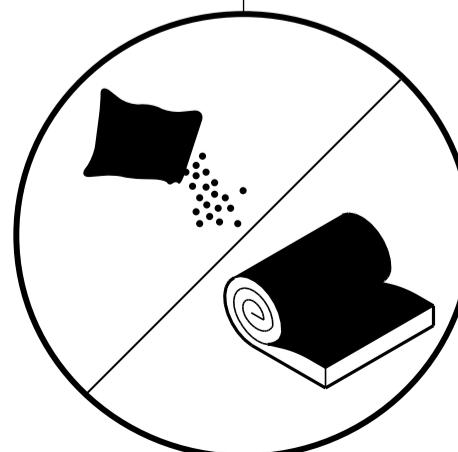
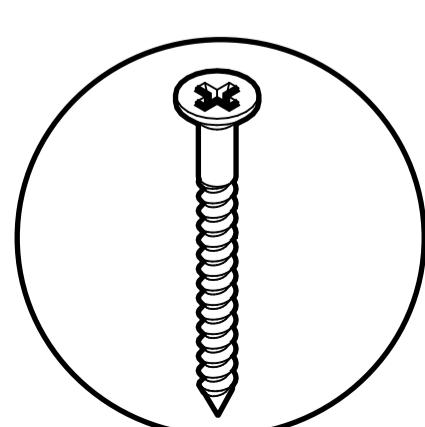
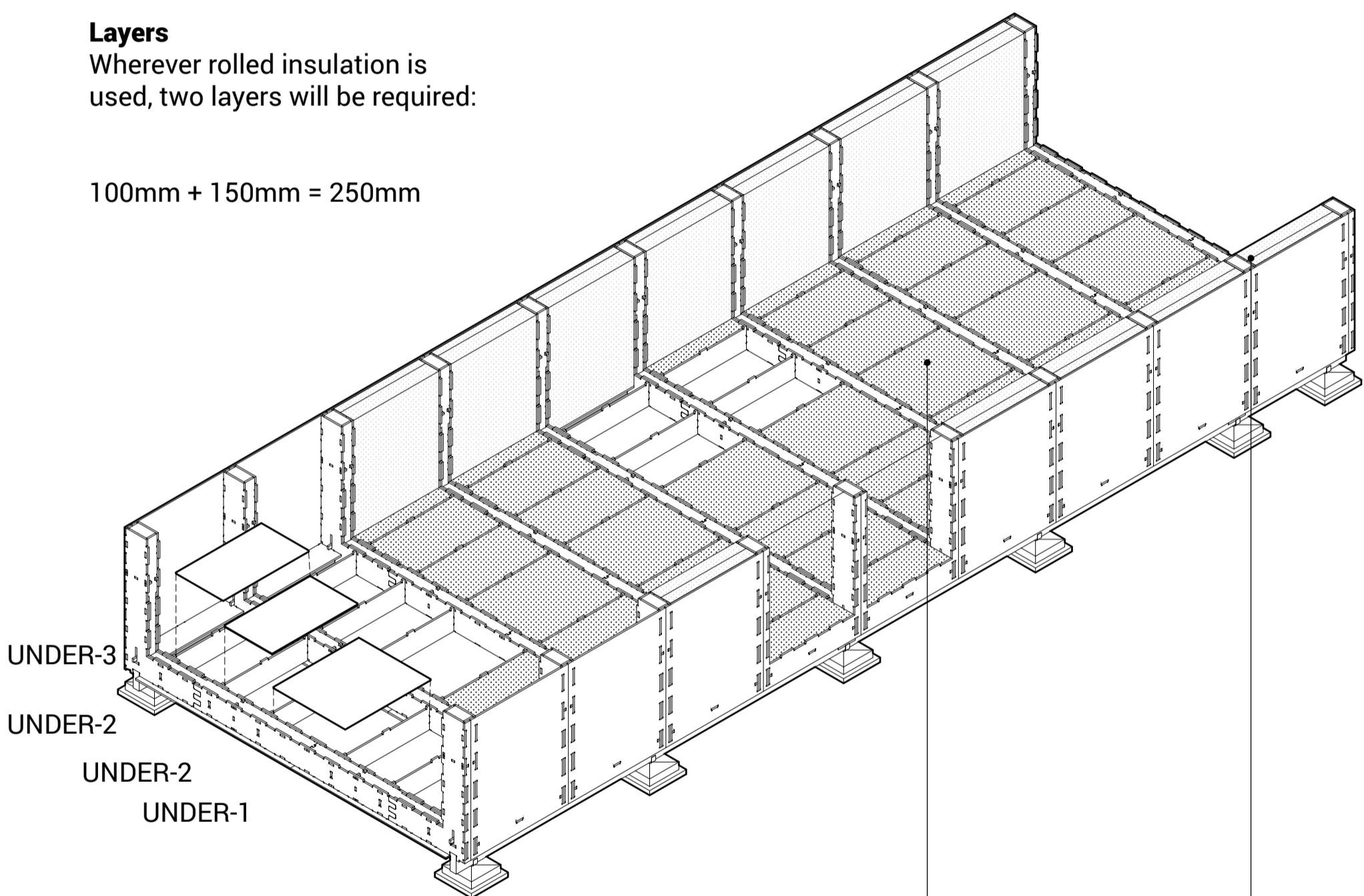
Drainage

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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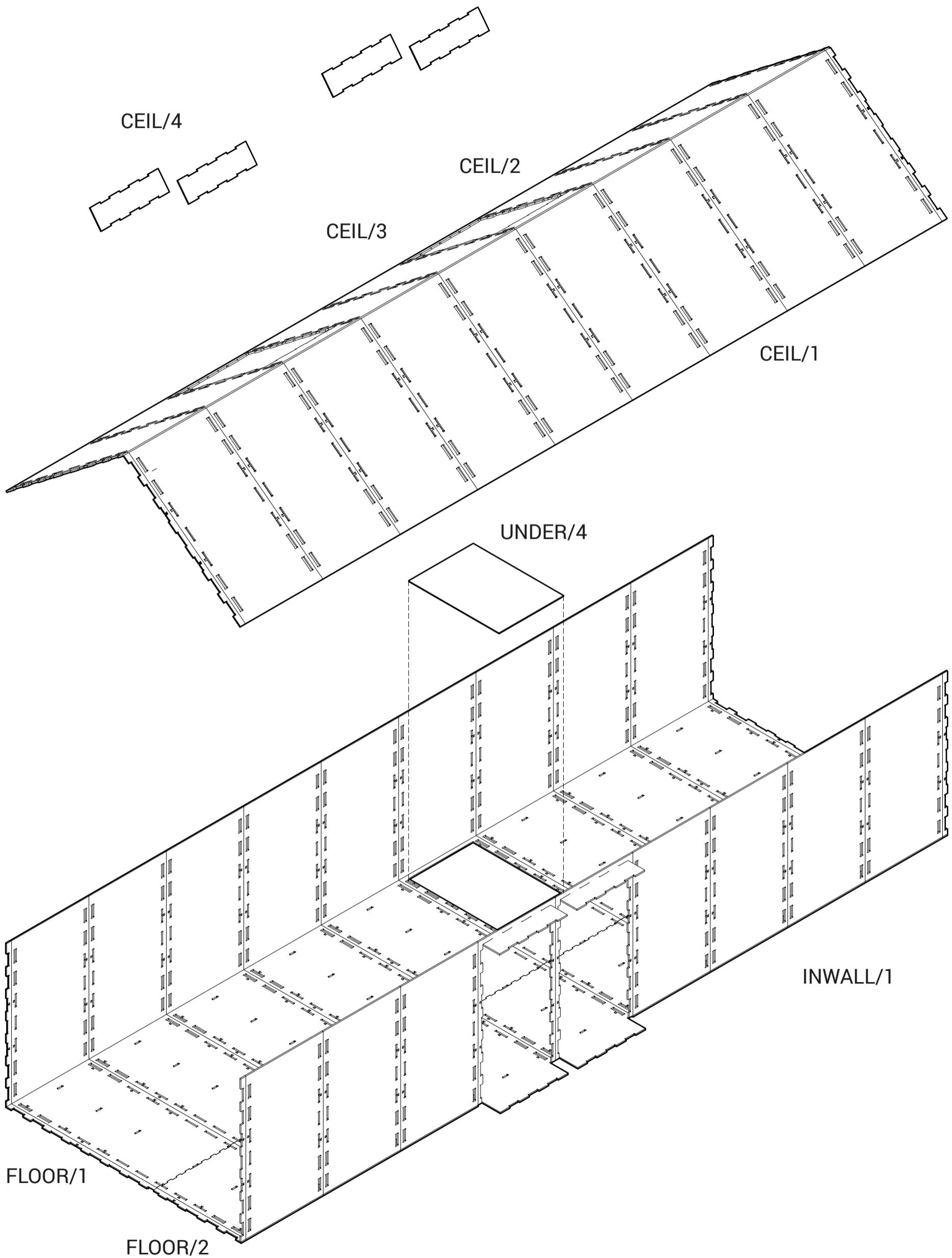
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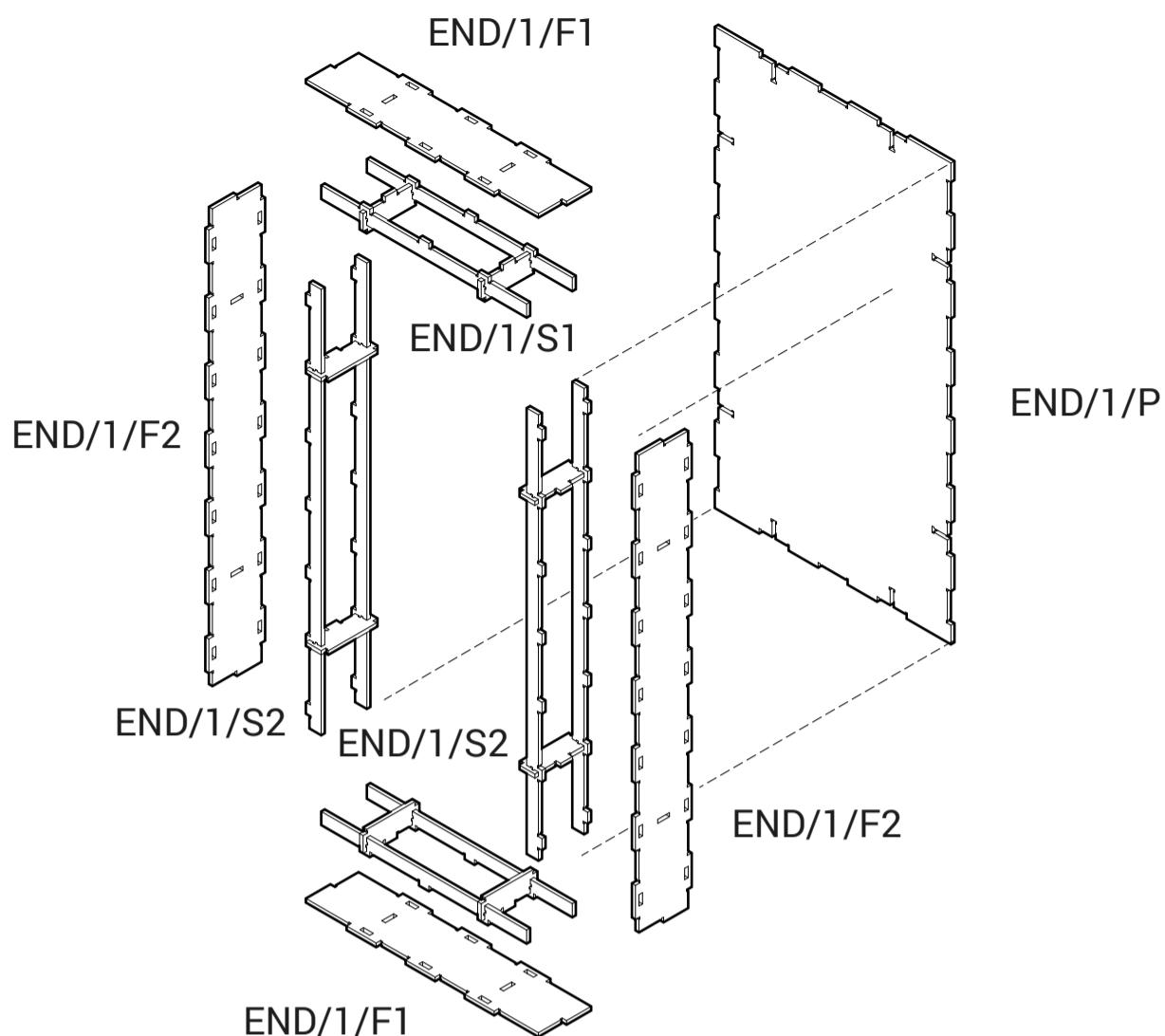
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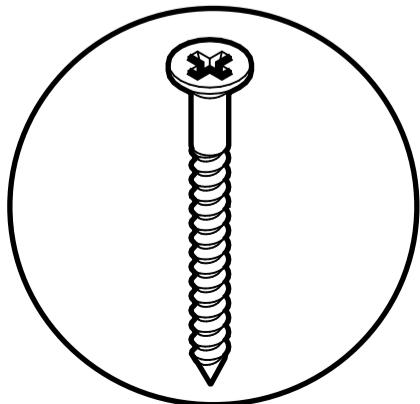
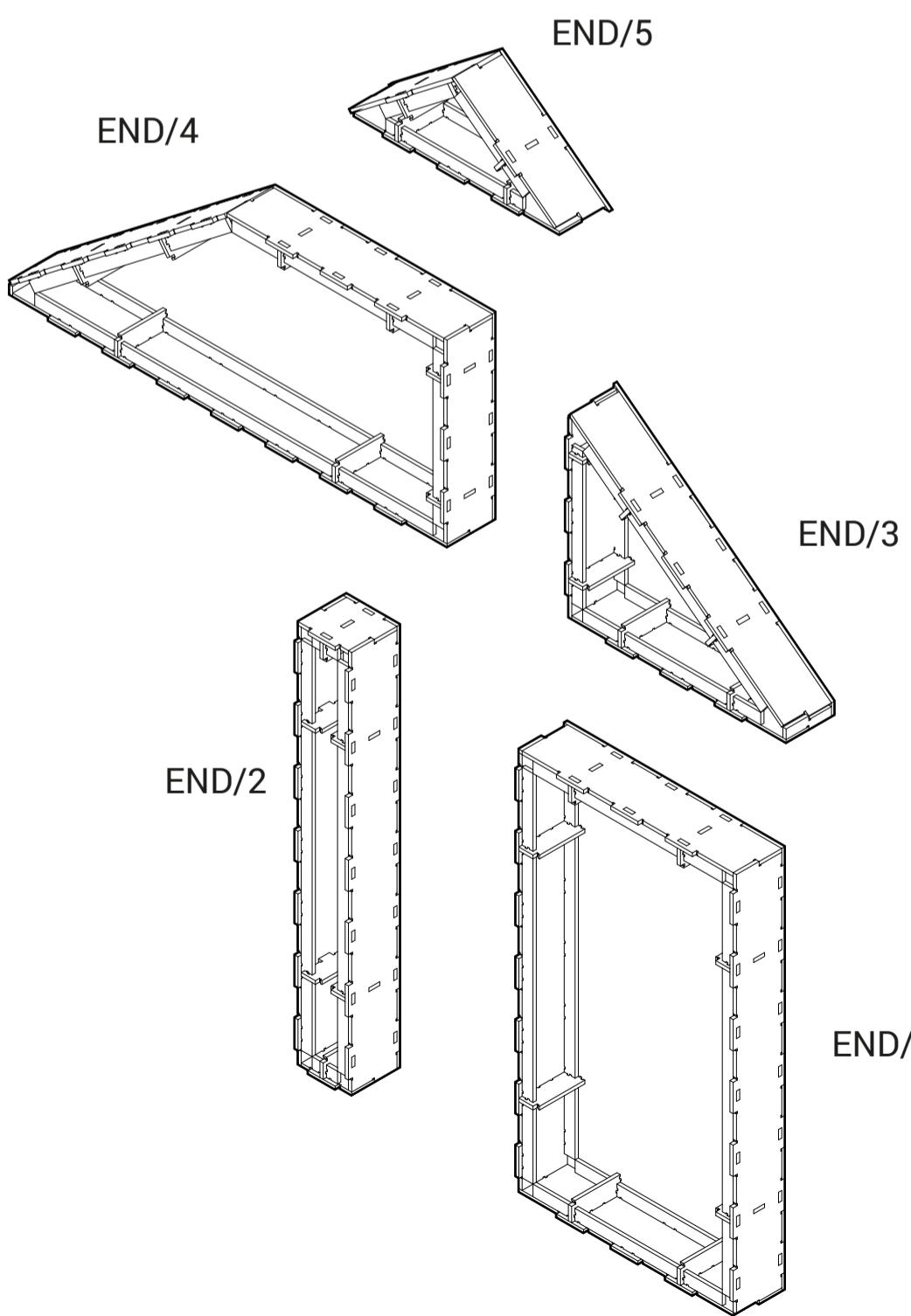
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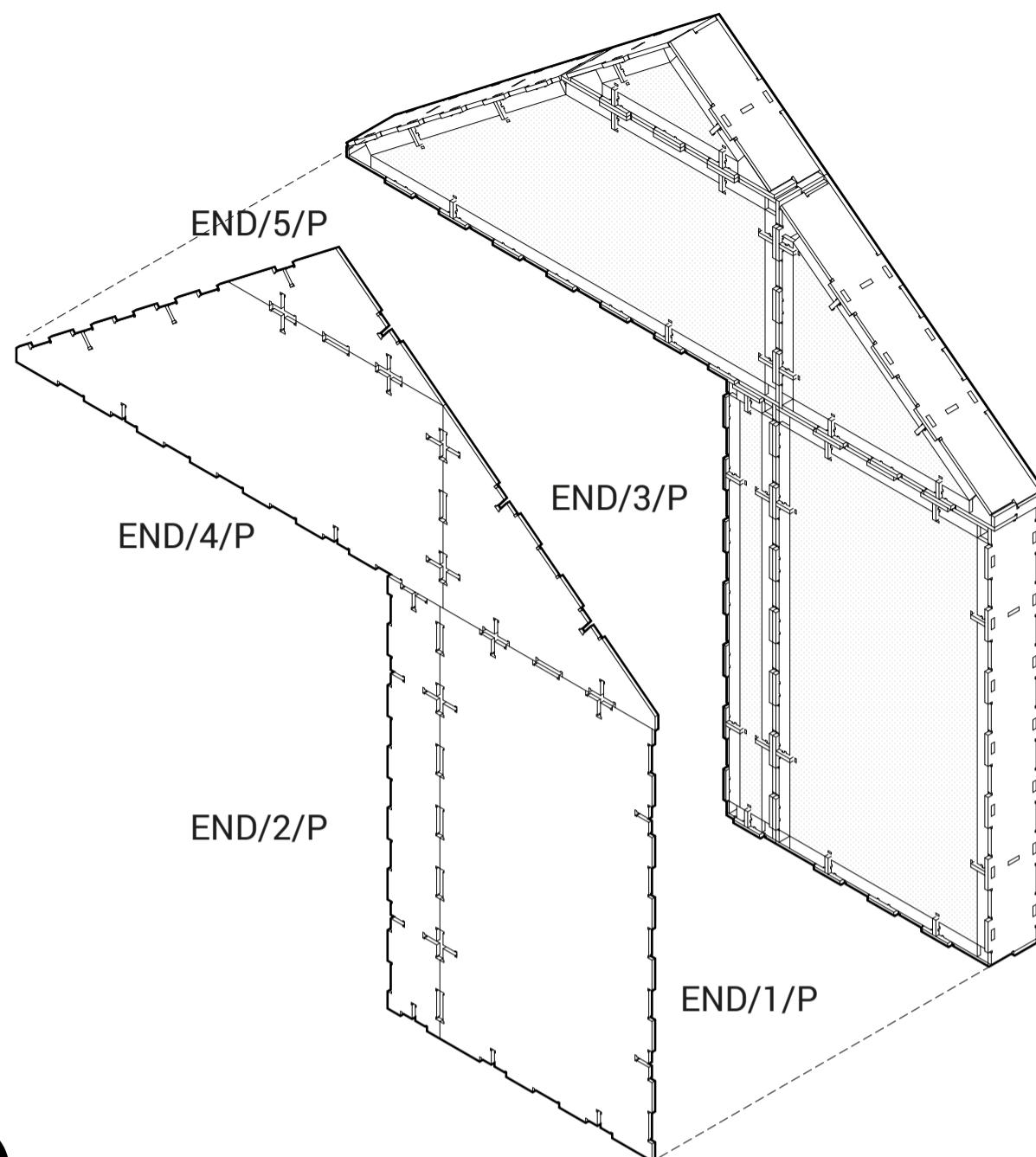
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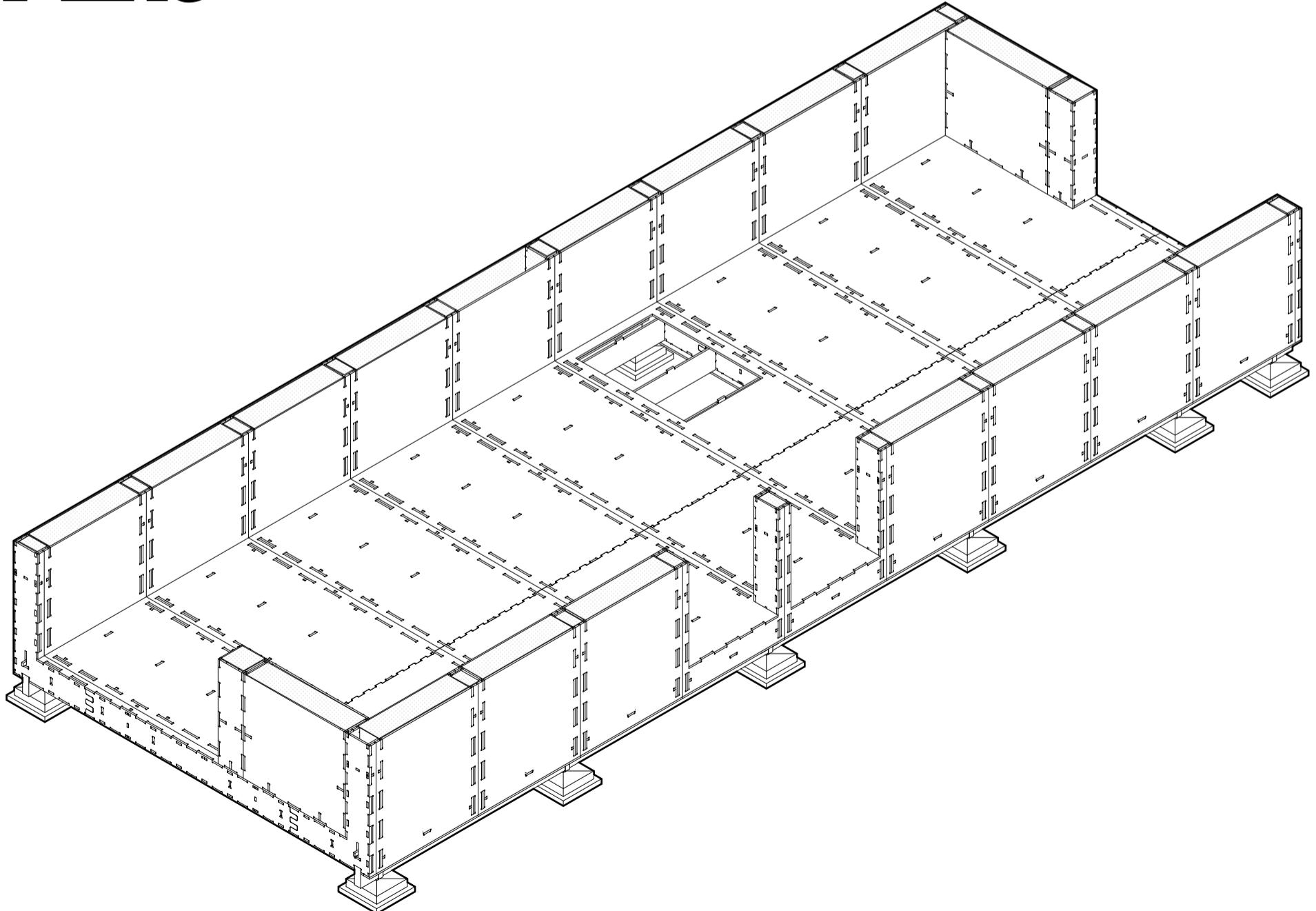
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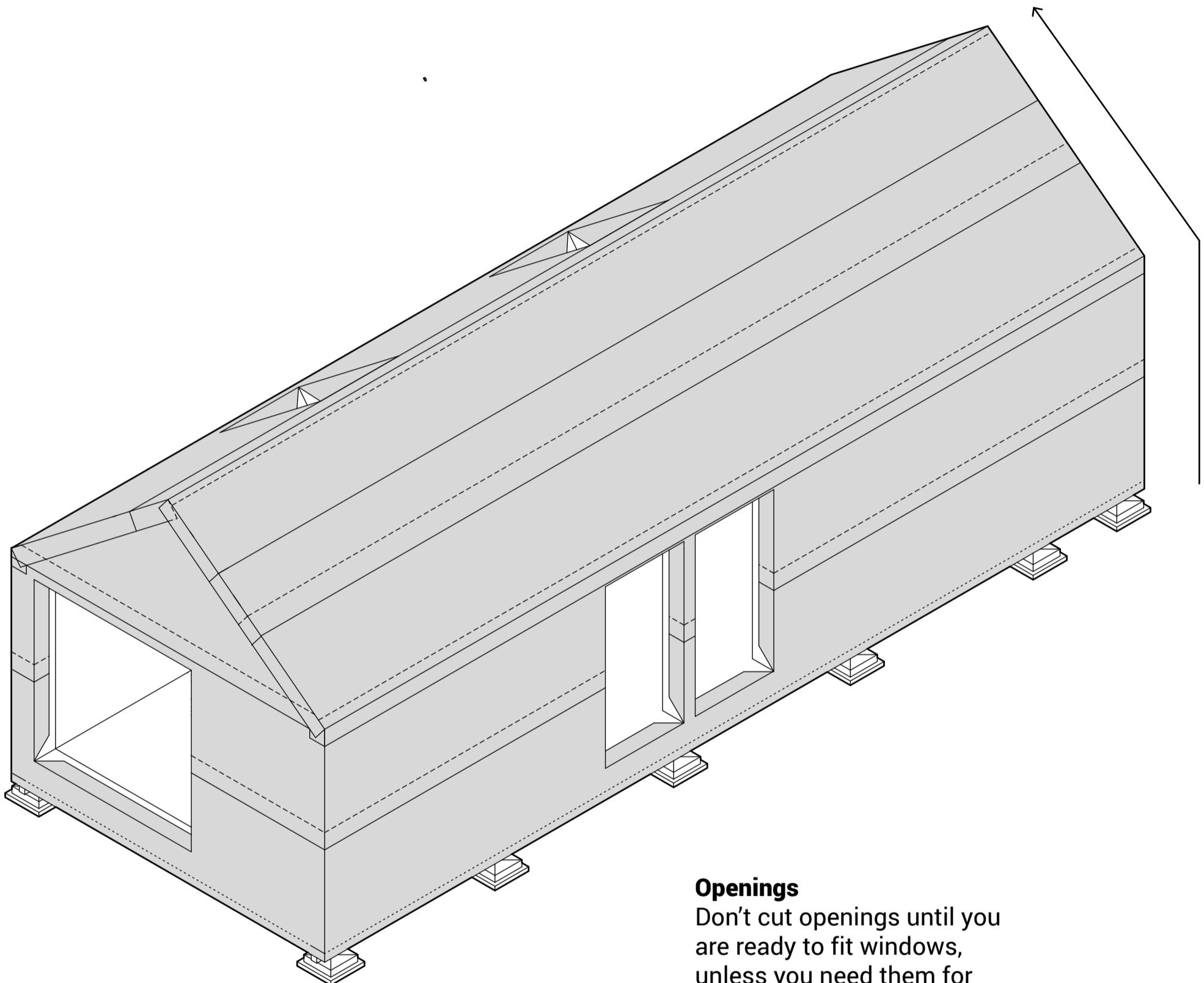
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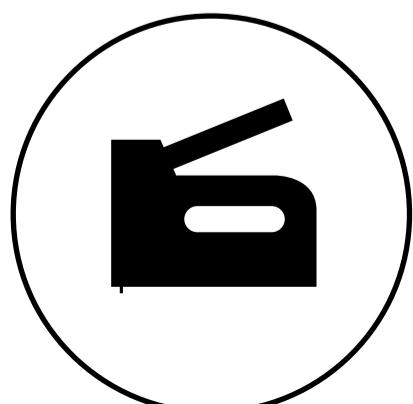
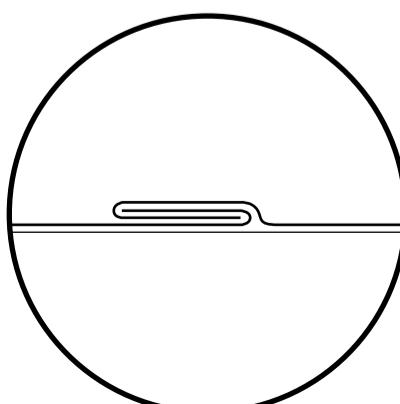
Wrap

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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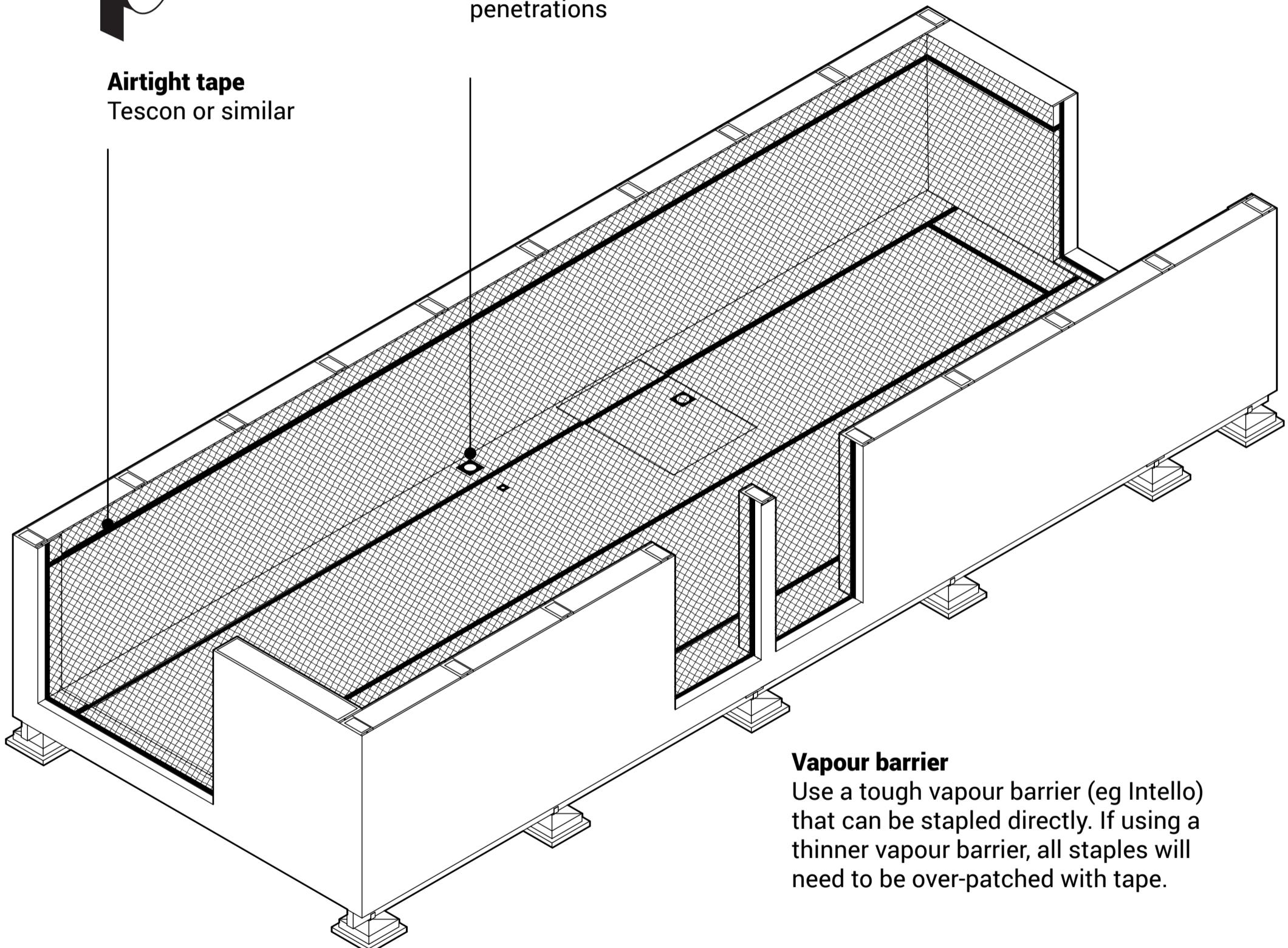
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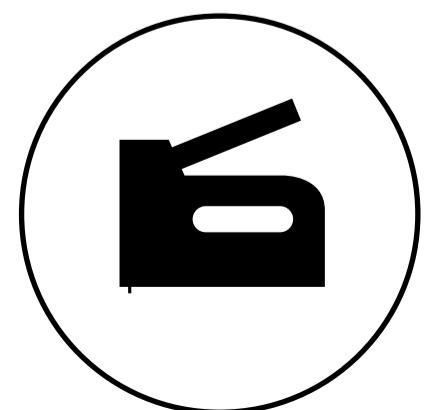


Airtight tape
Tescon or similar

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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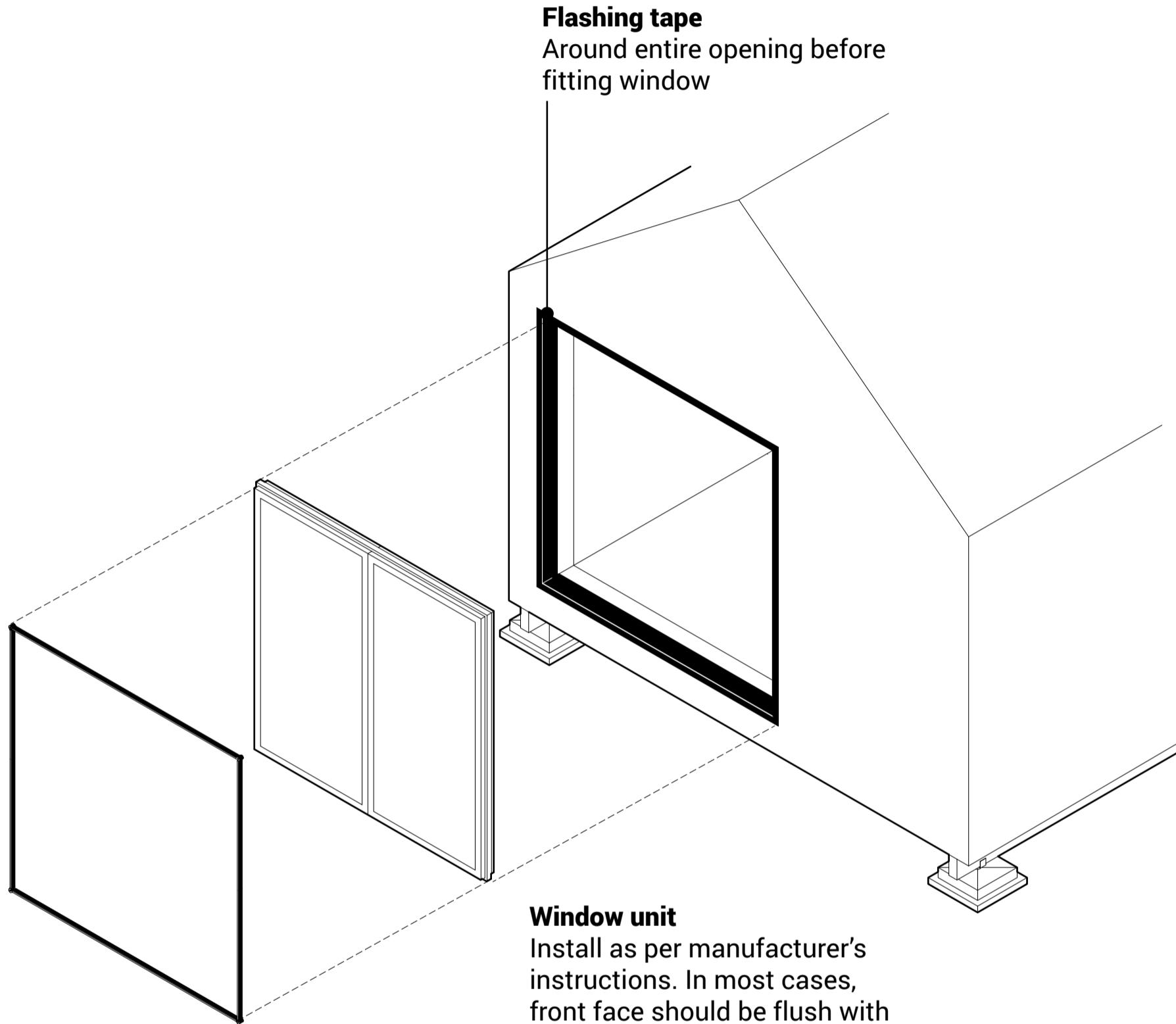
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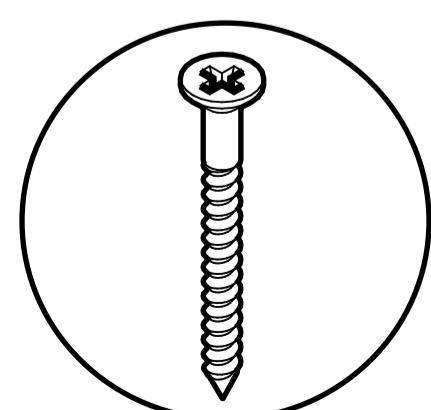
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Expanding tape

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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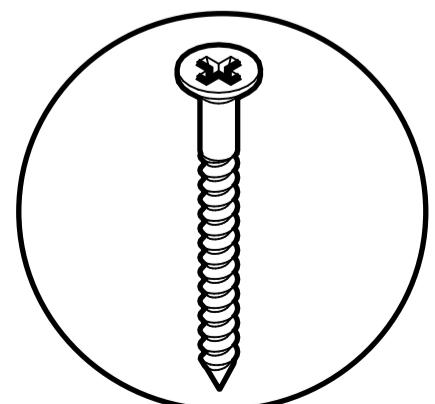
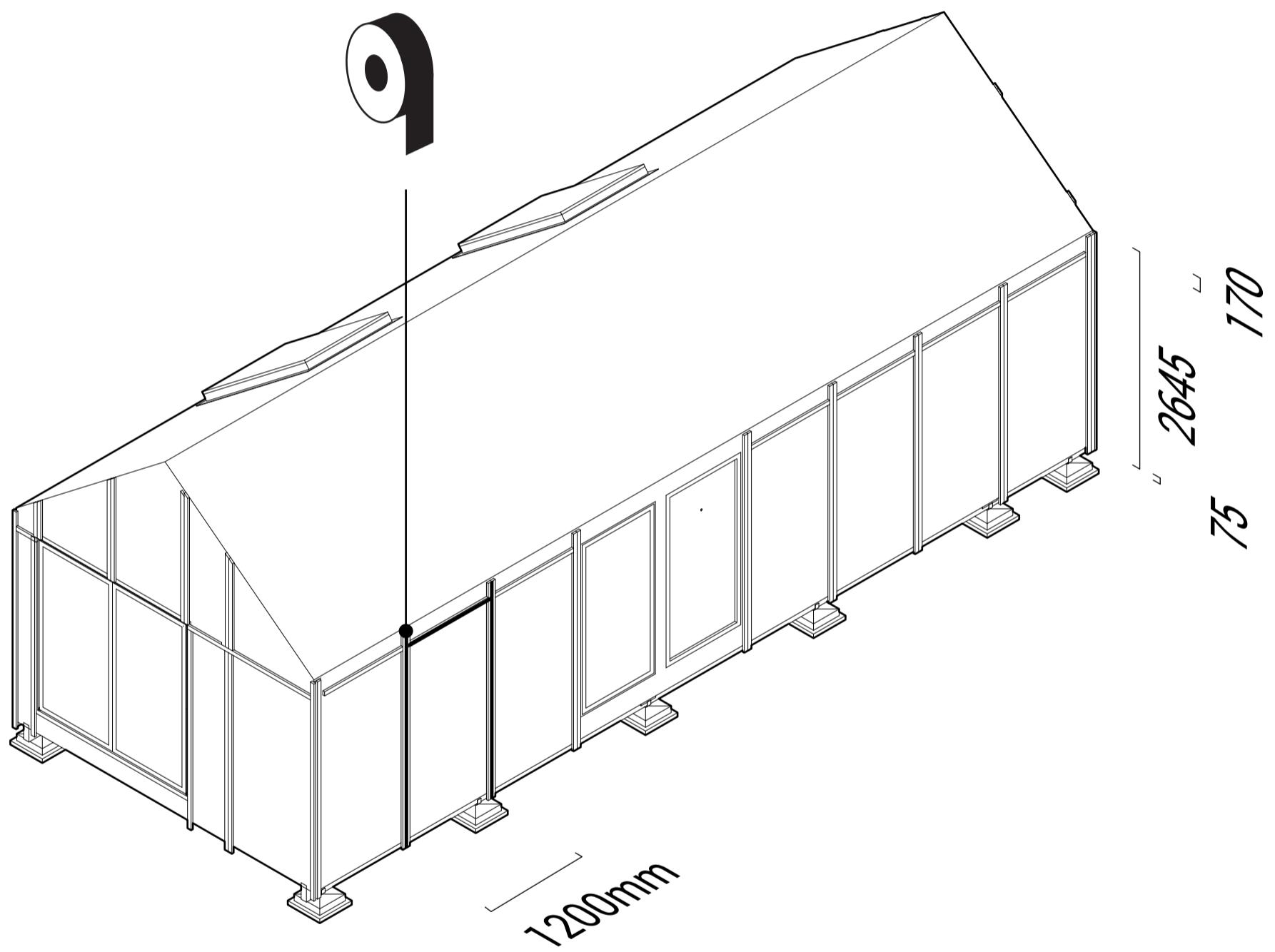
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16

Flashing tape

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



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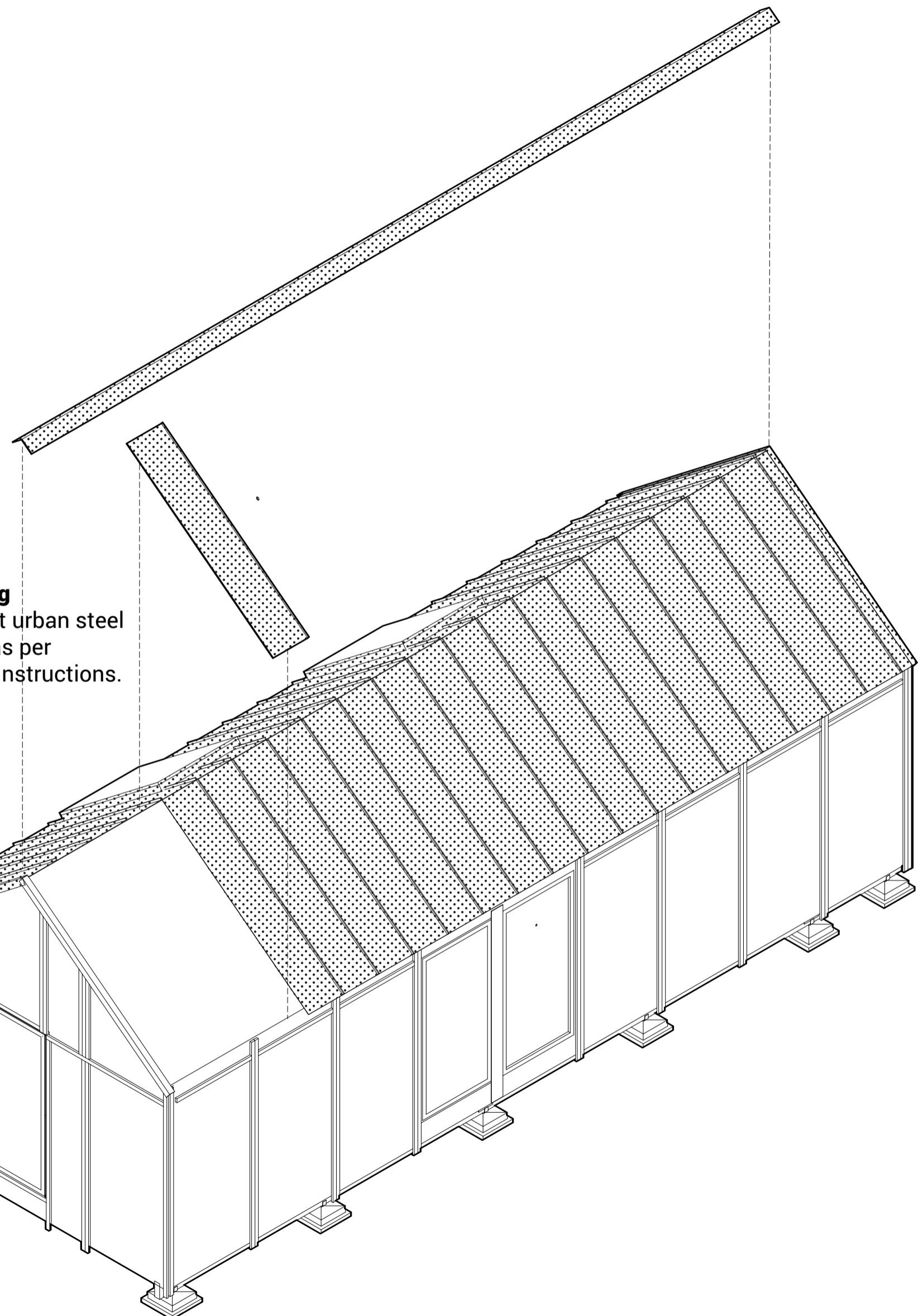
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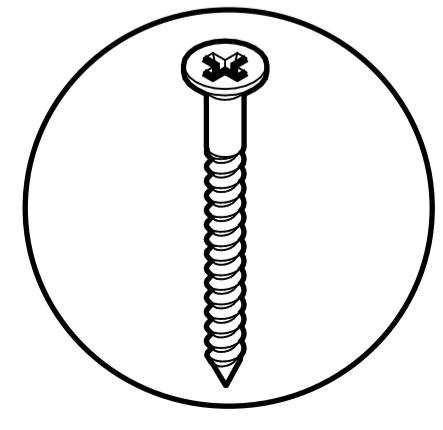
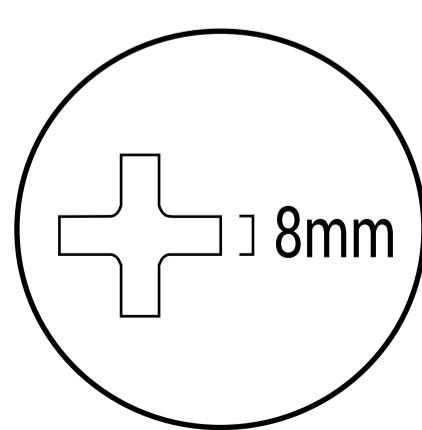
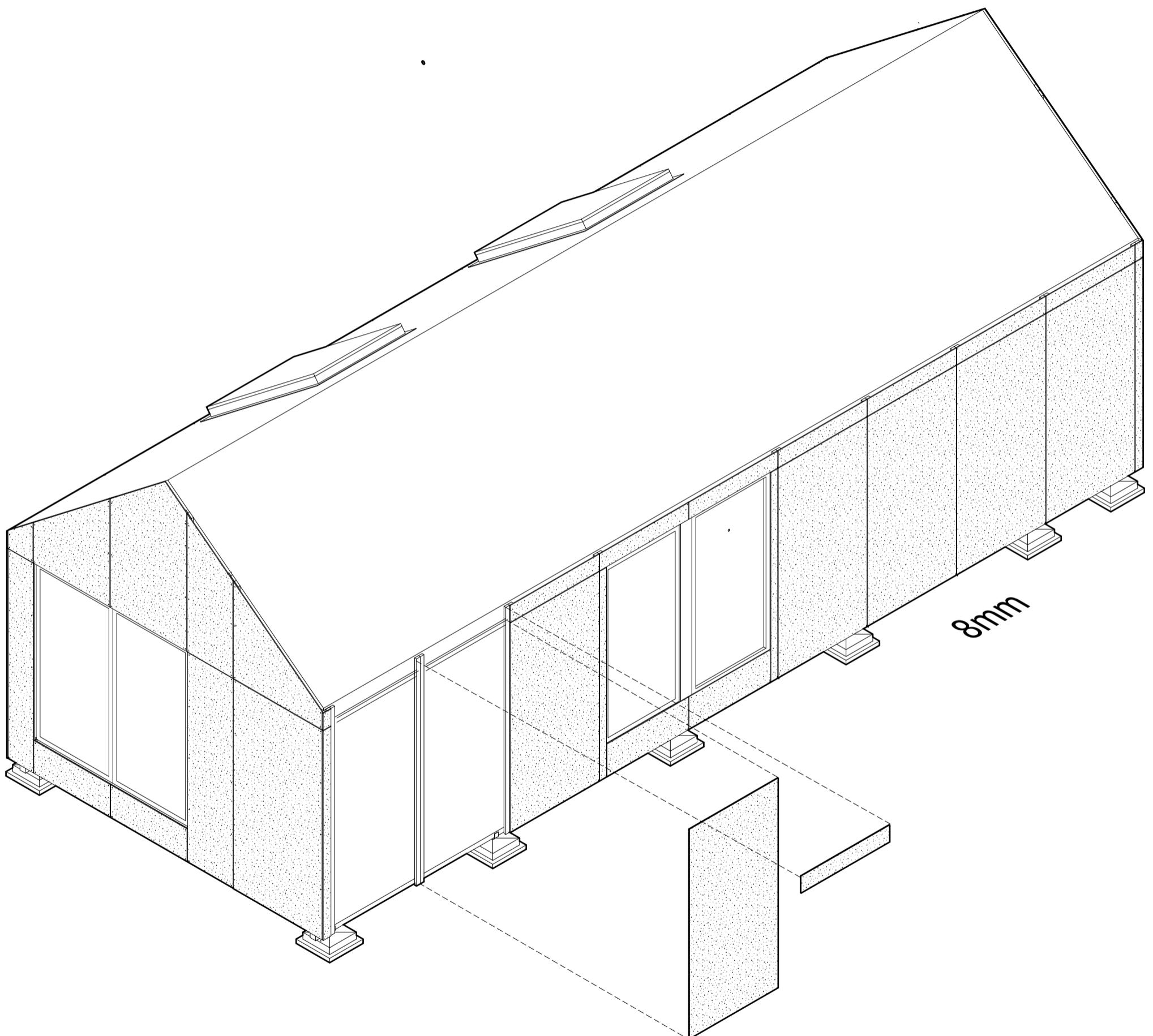
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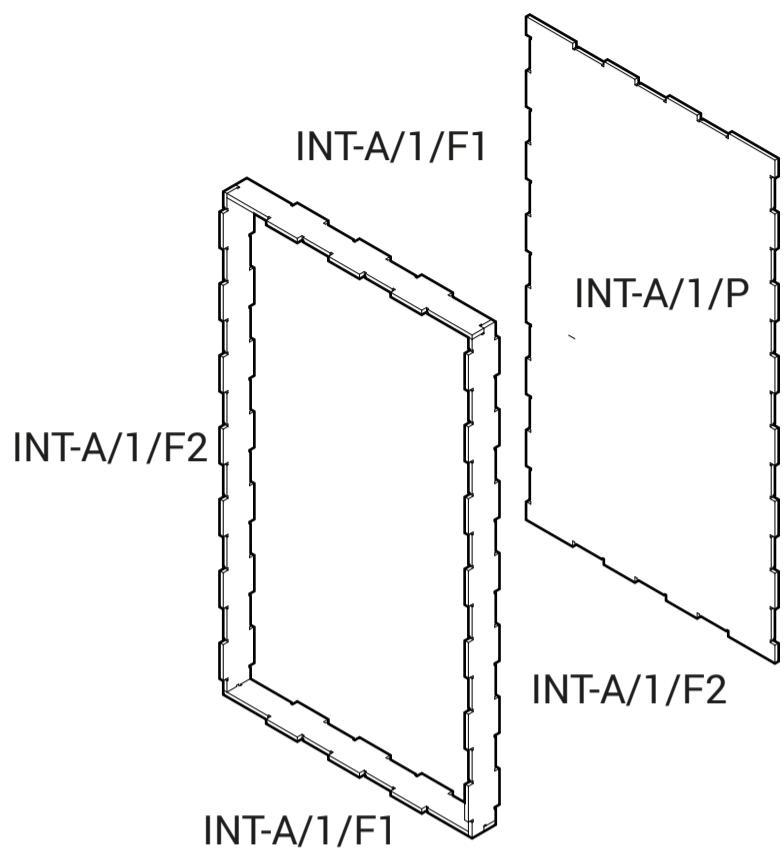
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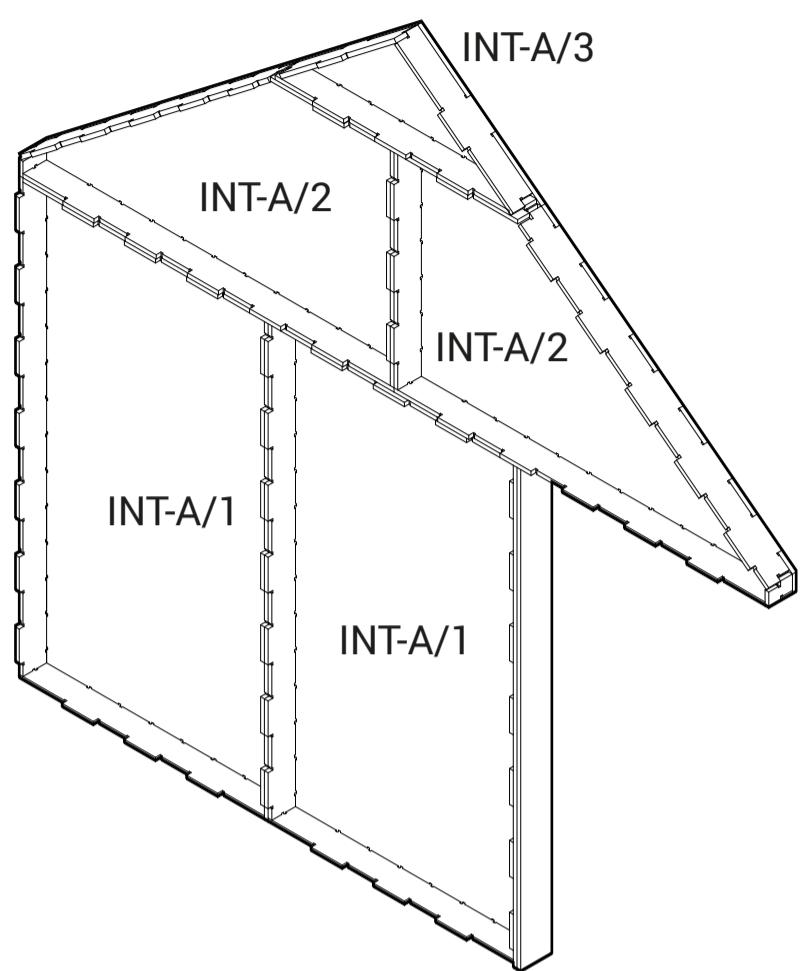
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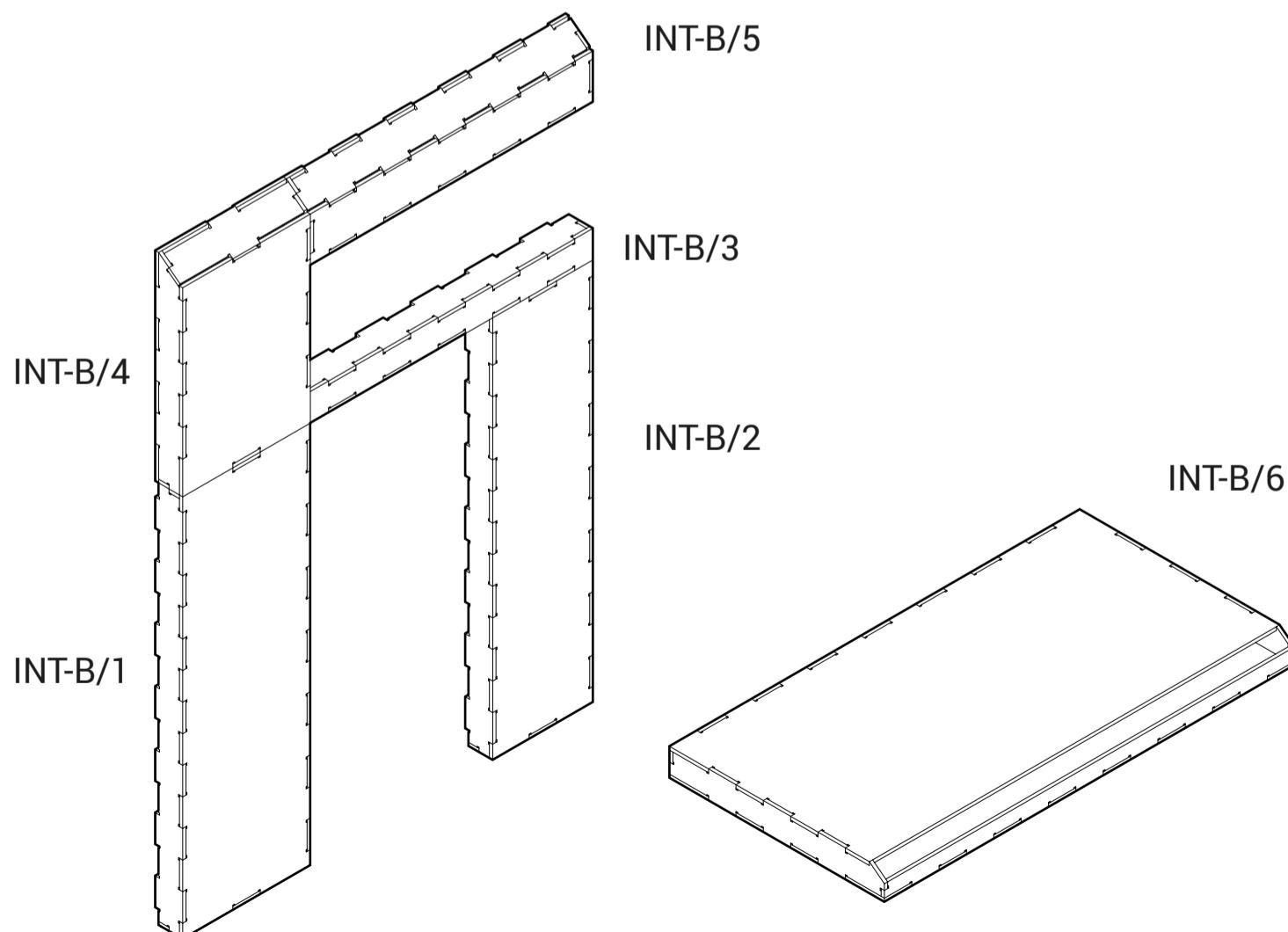
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19c



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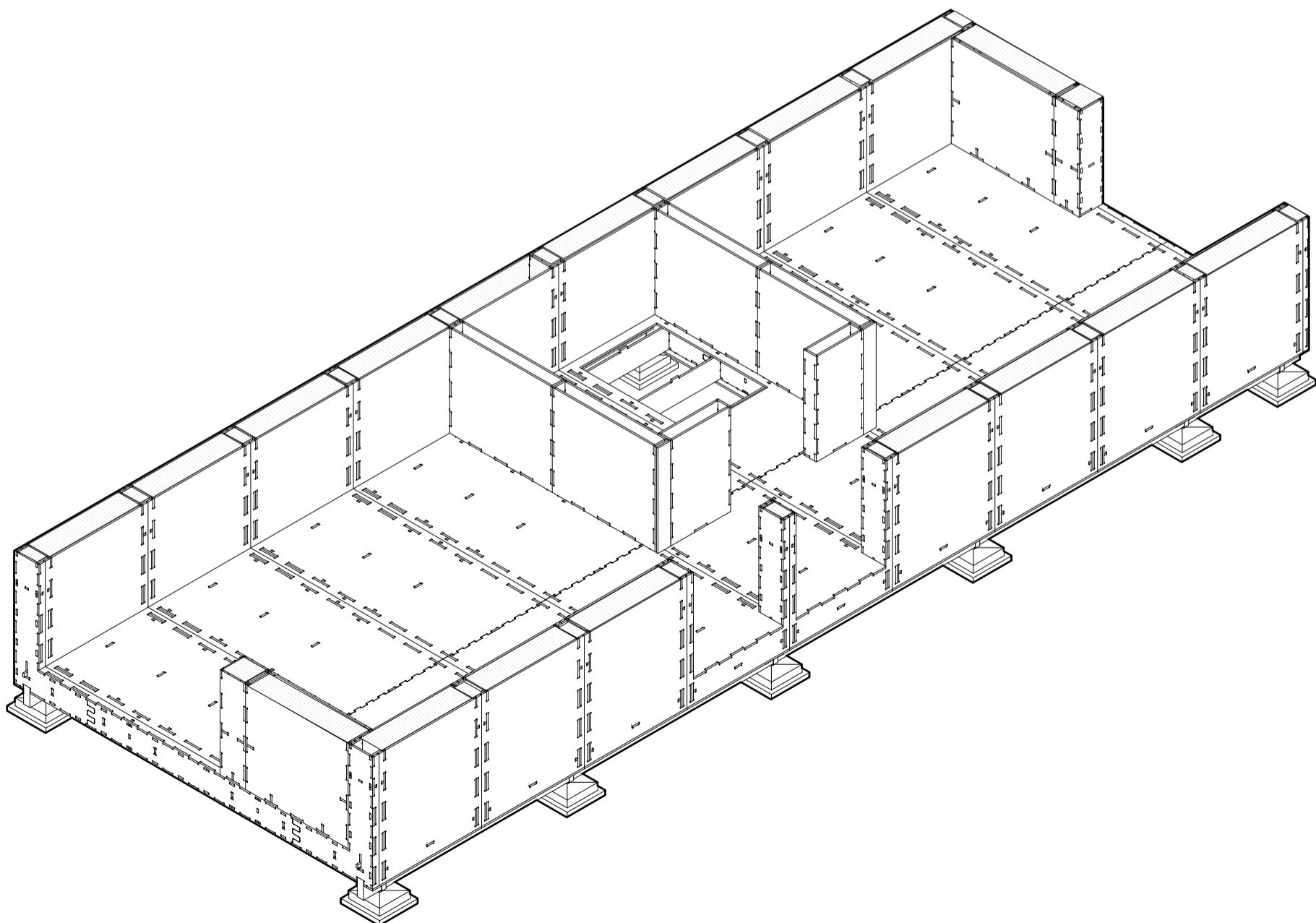
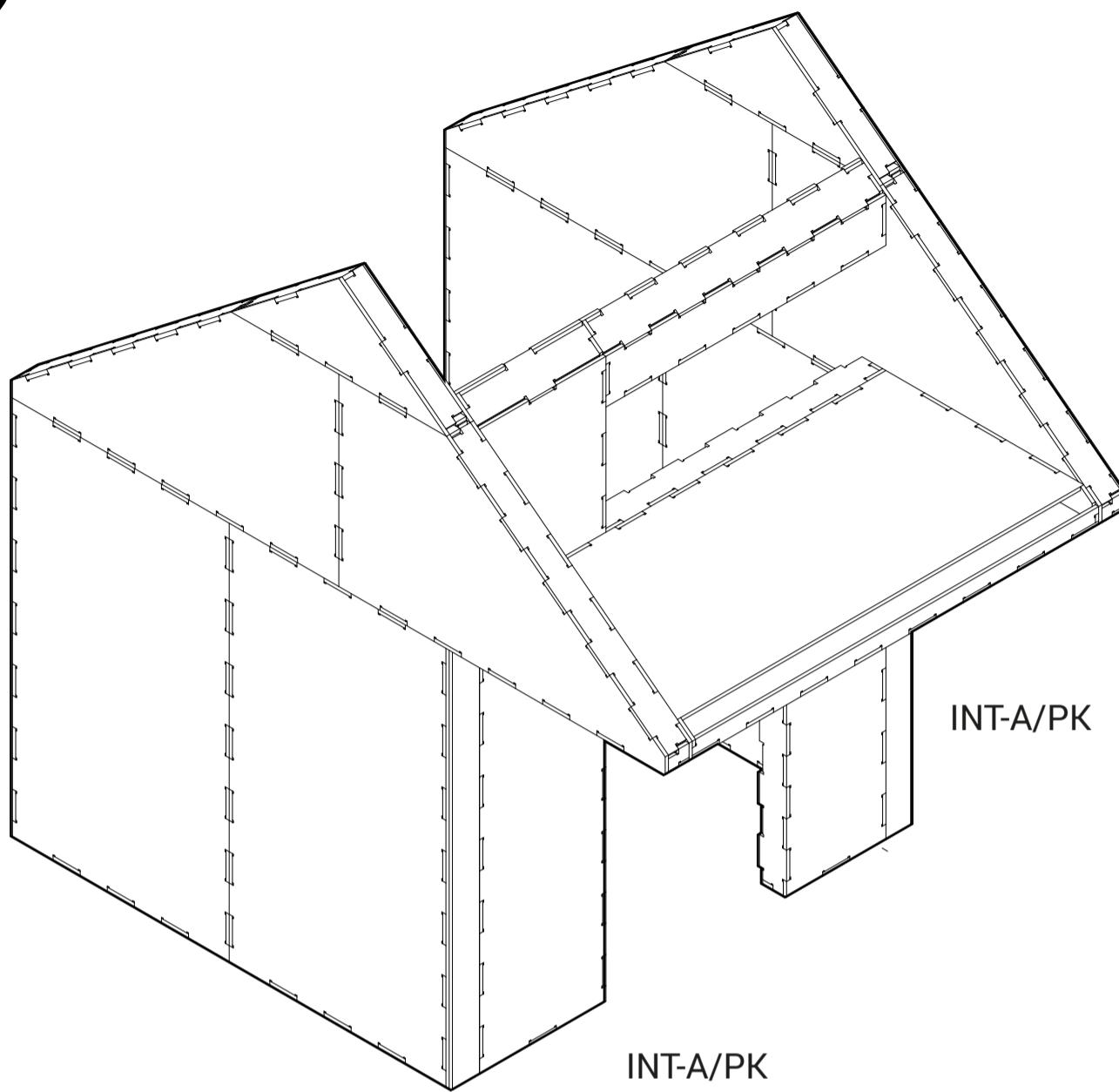
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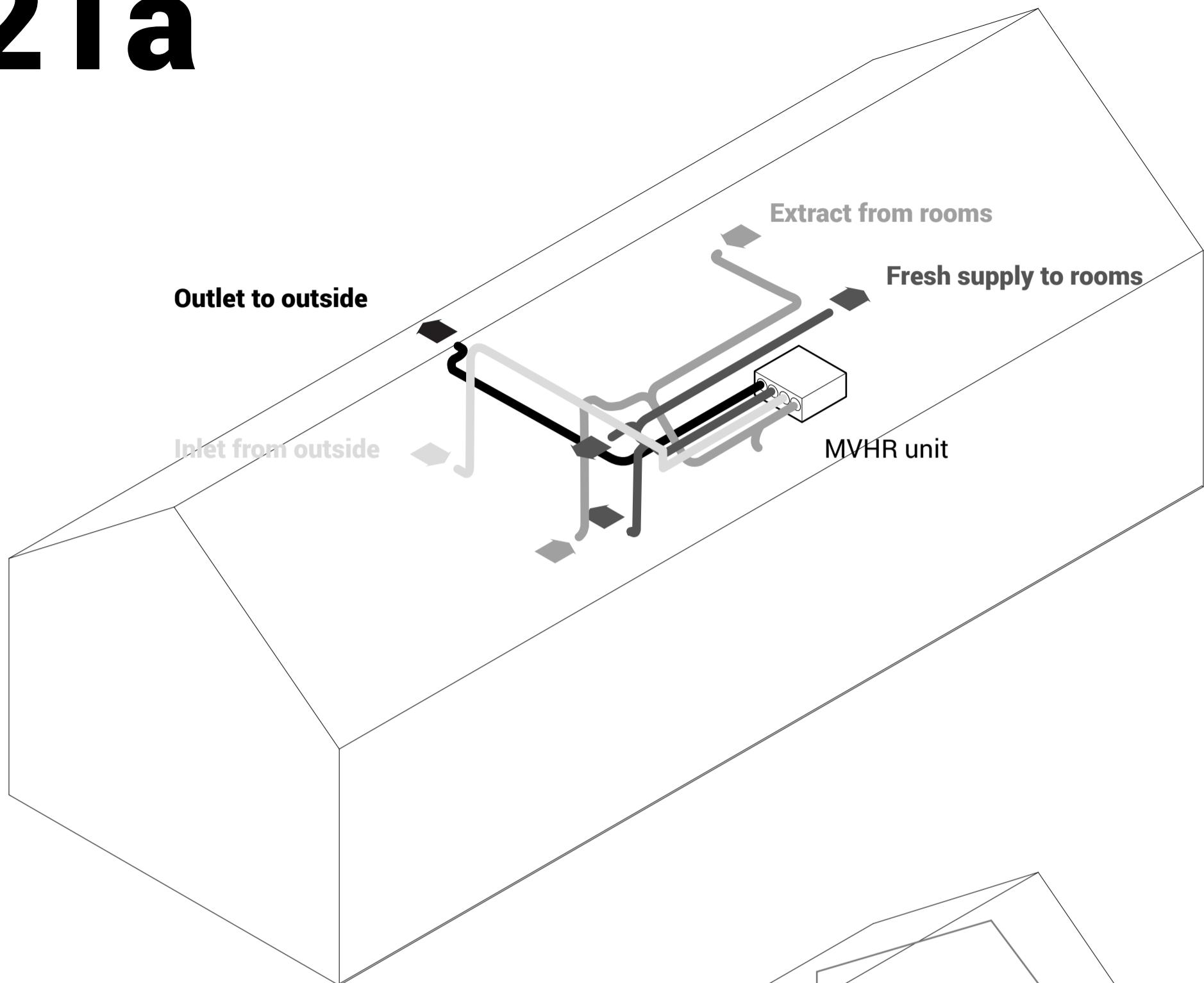
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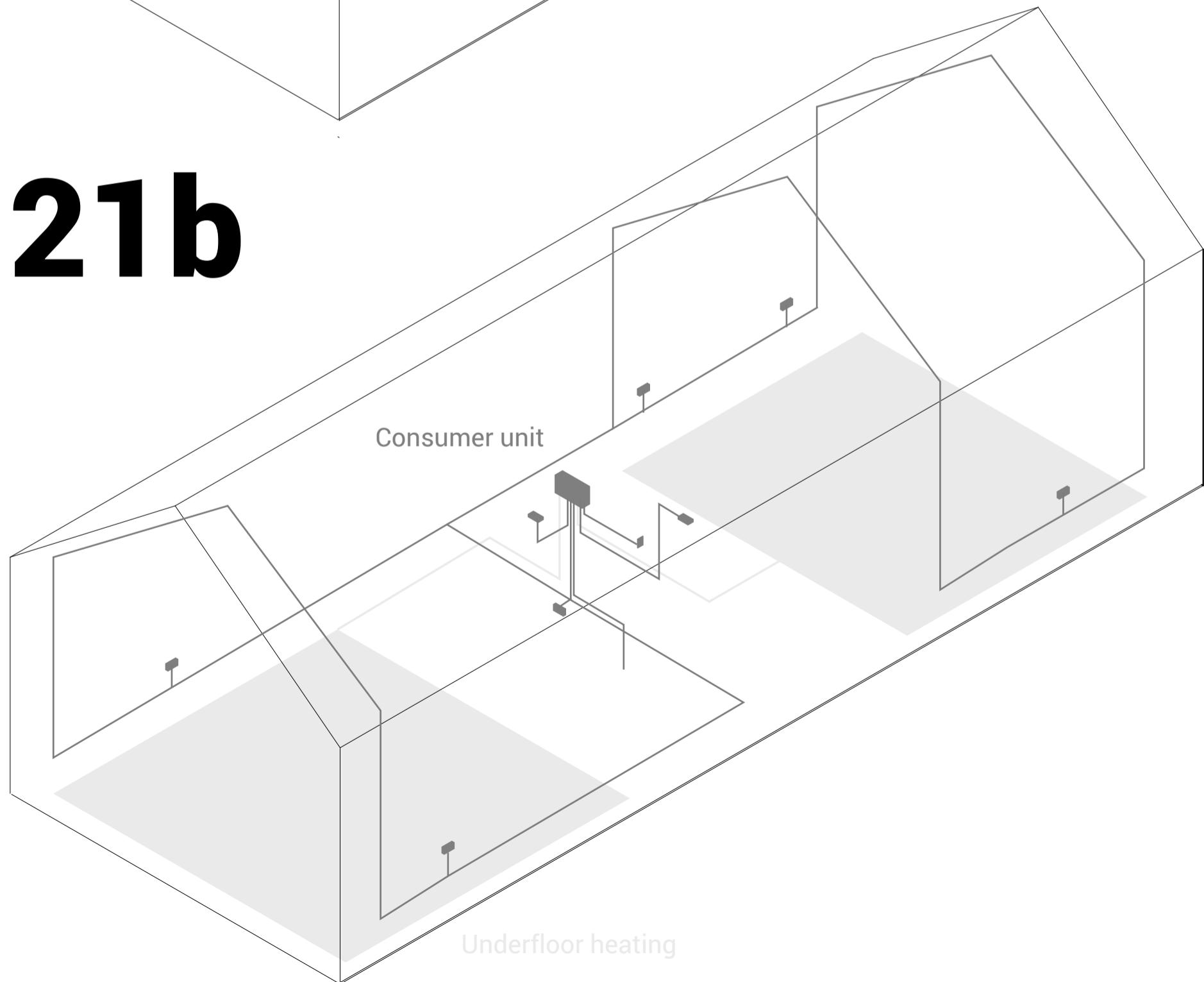
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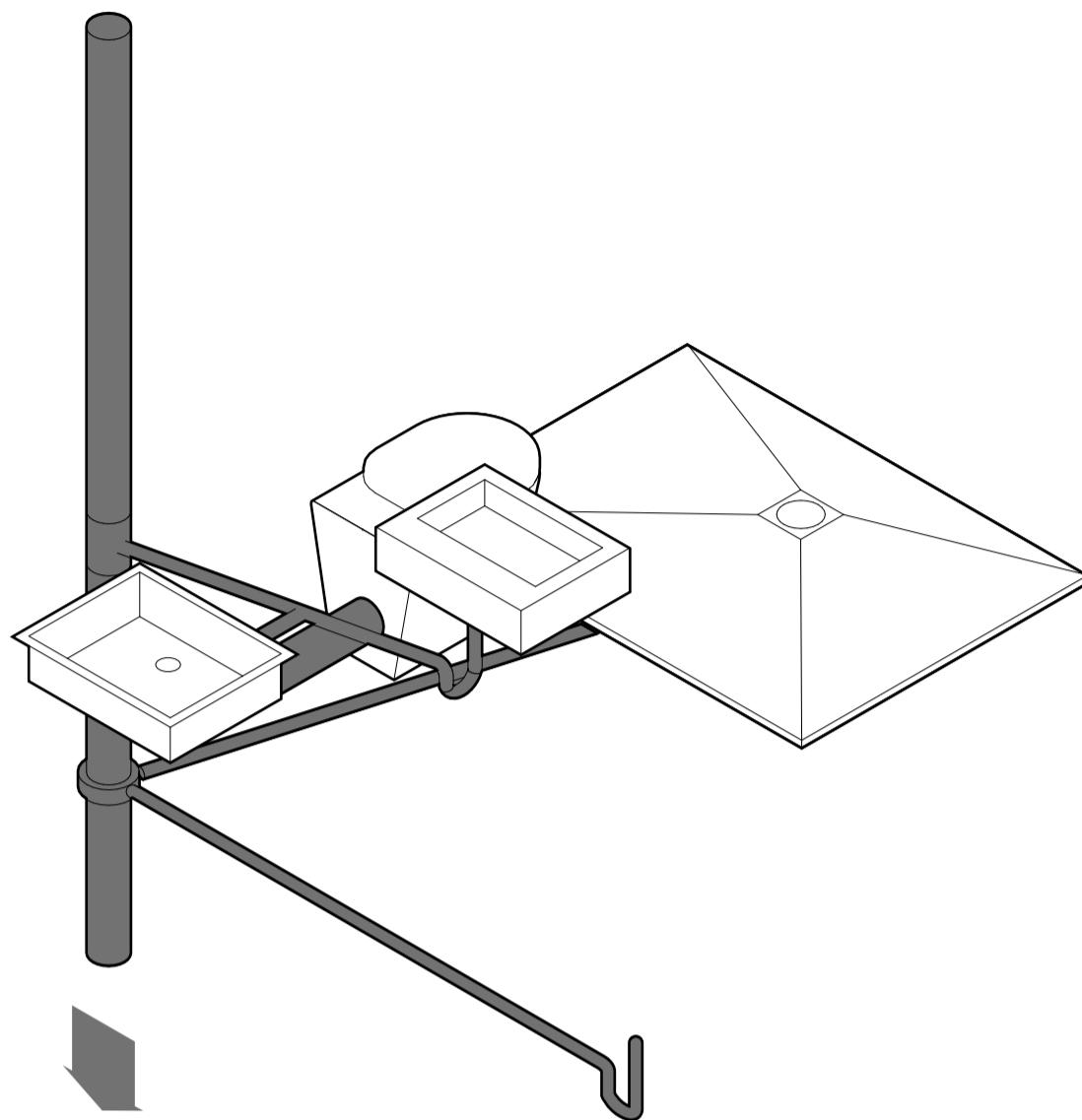
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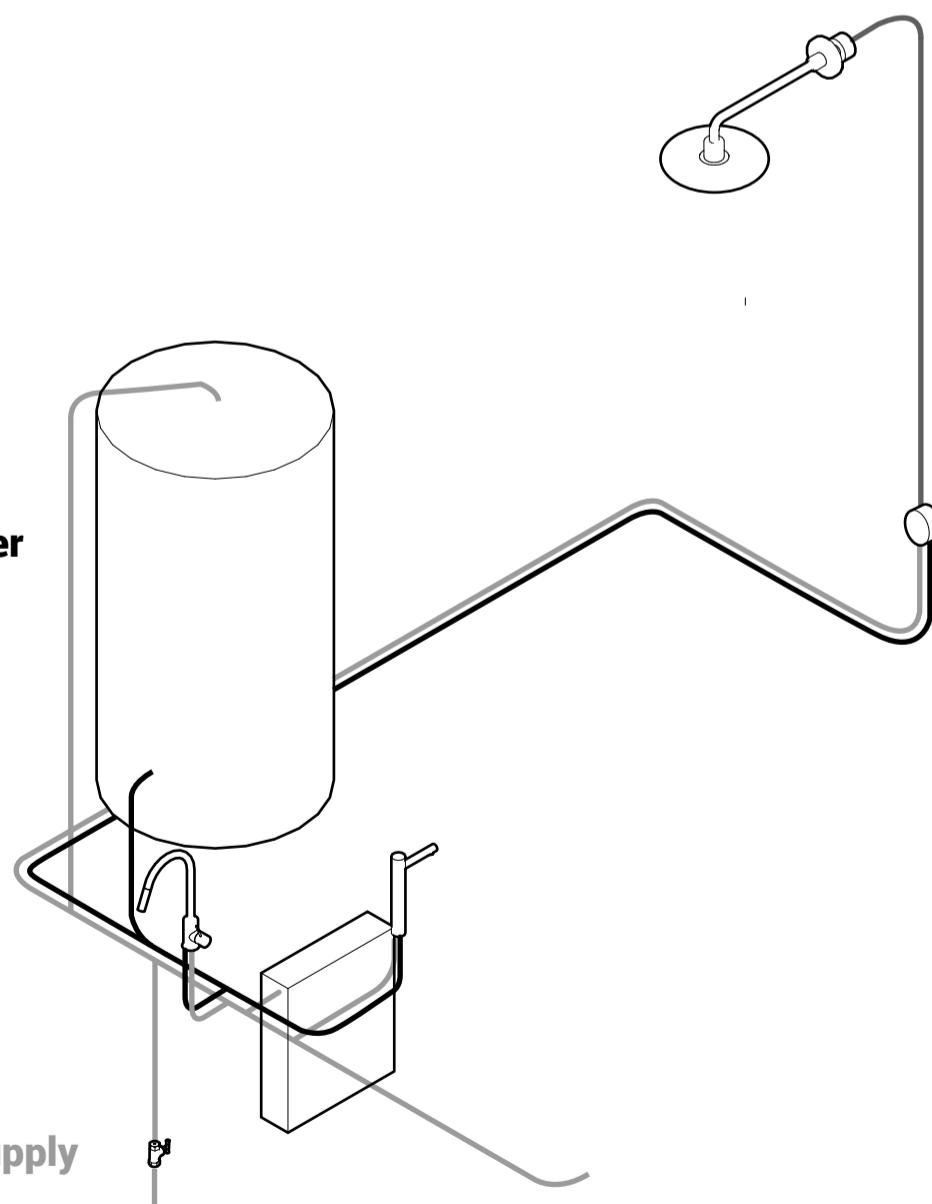
Air inlet valve



21d

Electric water heater

Cold water supply



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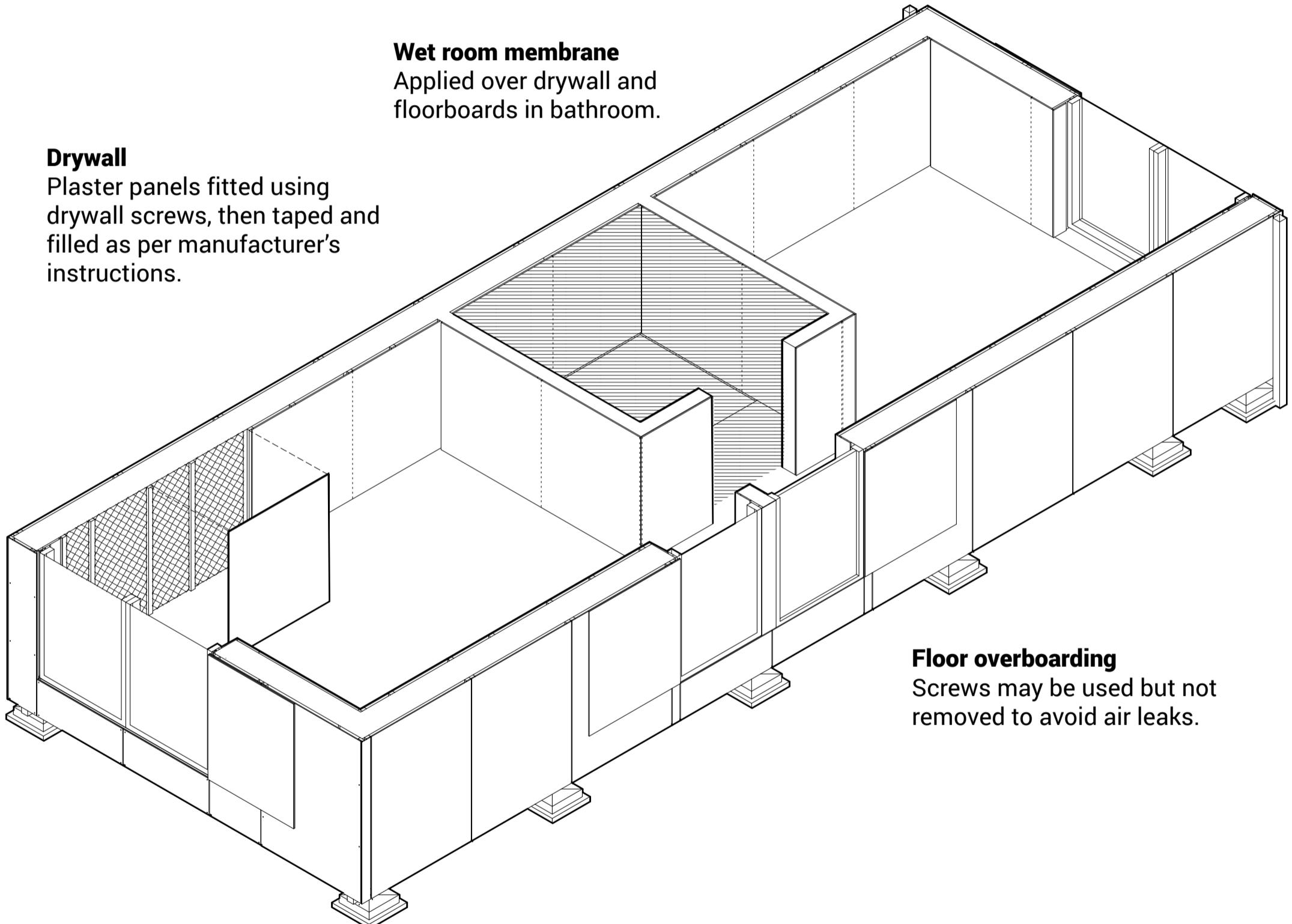
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22

Wet room membrane
Applied over drywall and
floorboards in bathroom.

Drywall

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



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



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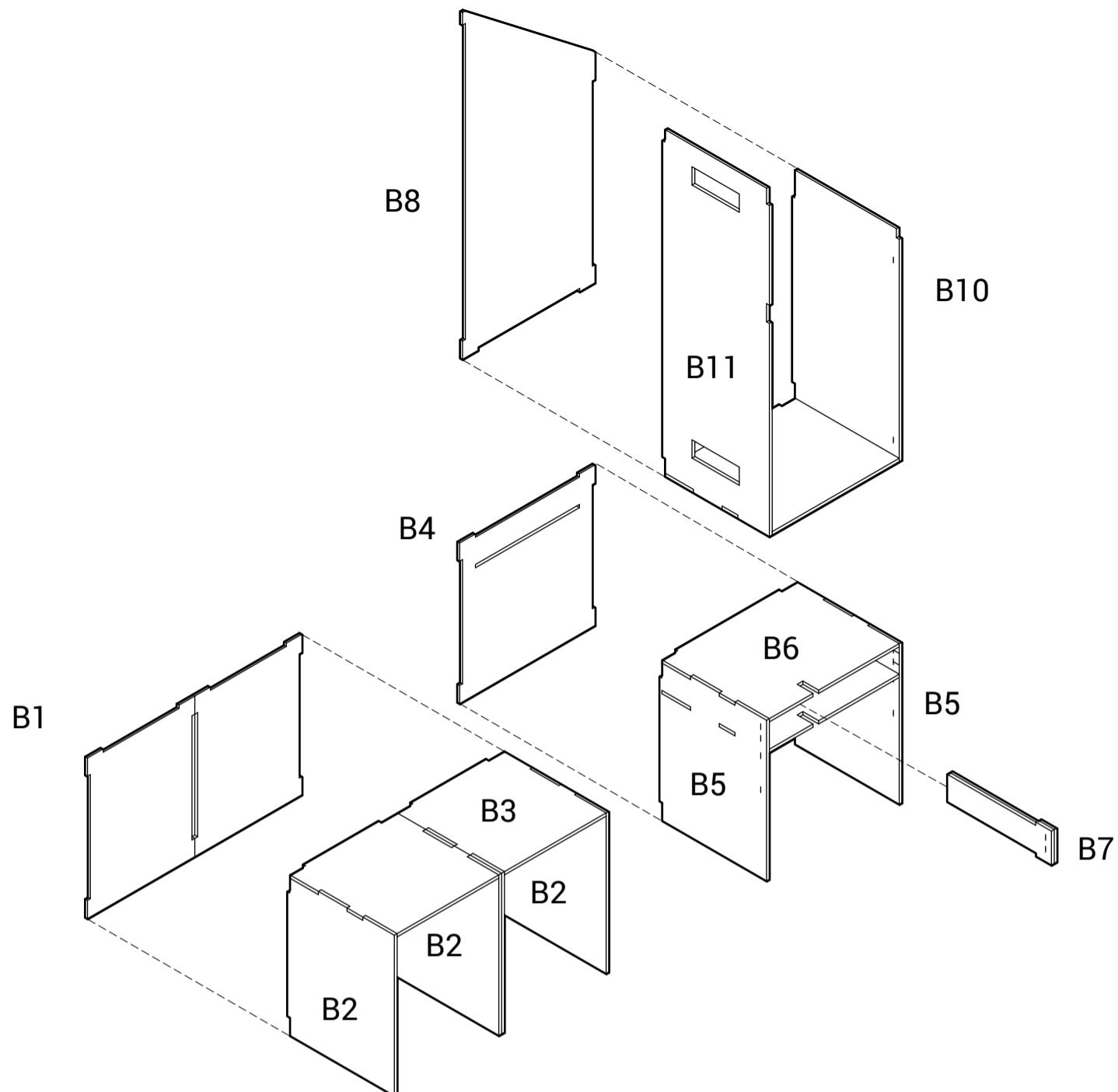
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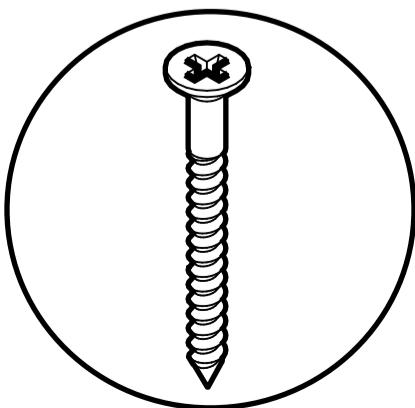
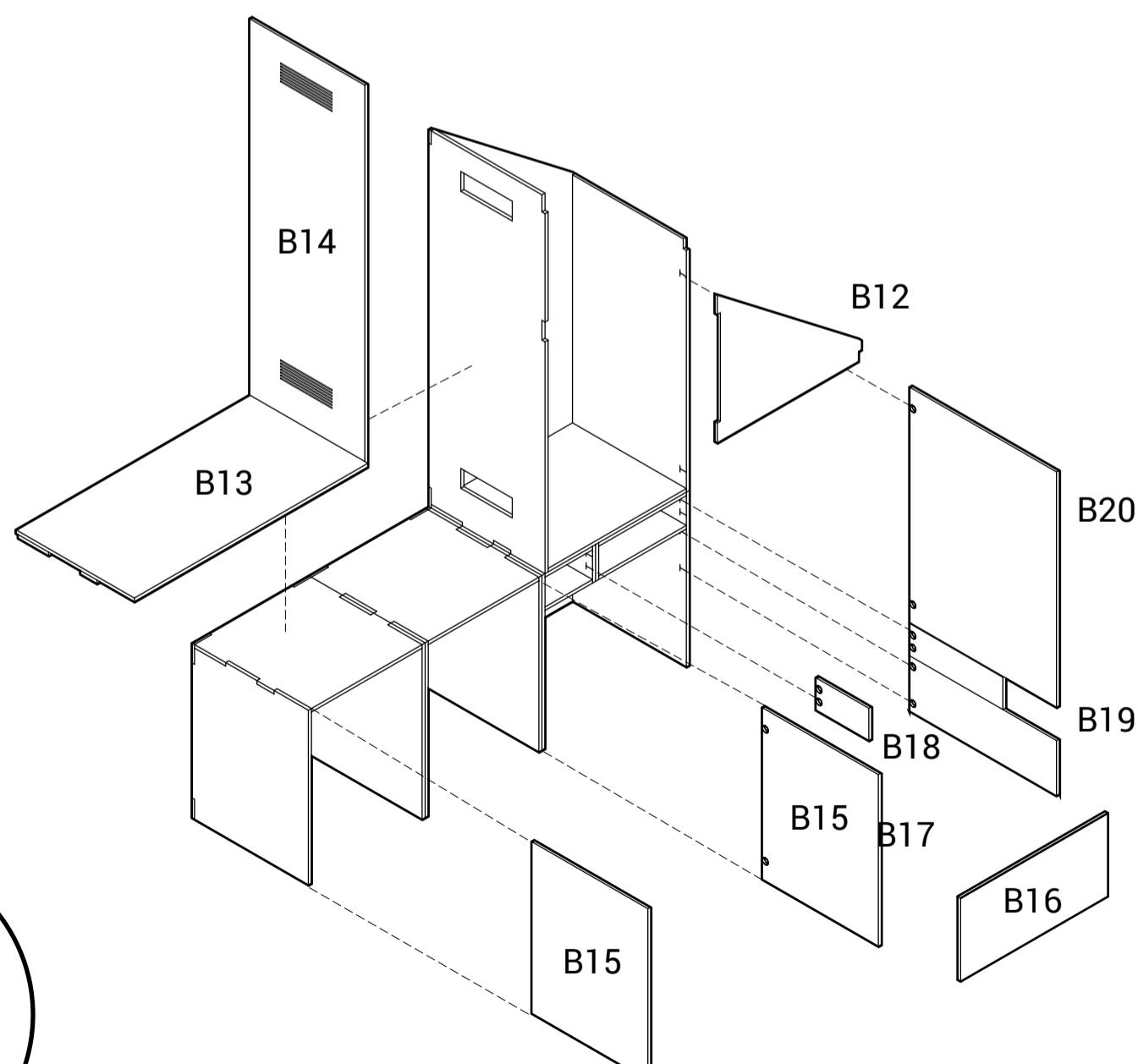
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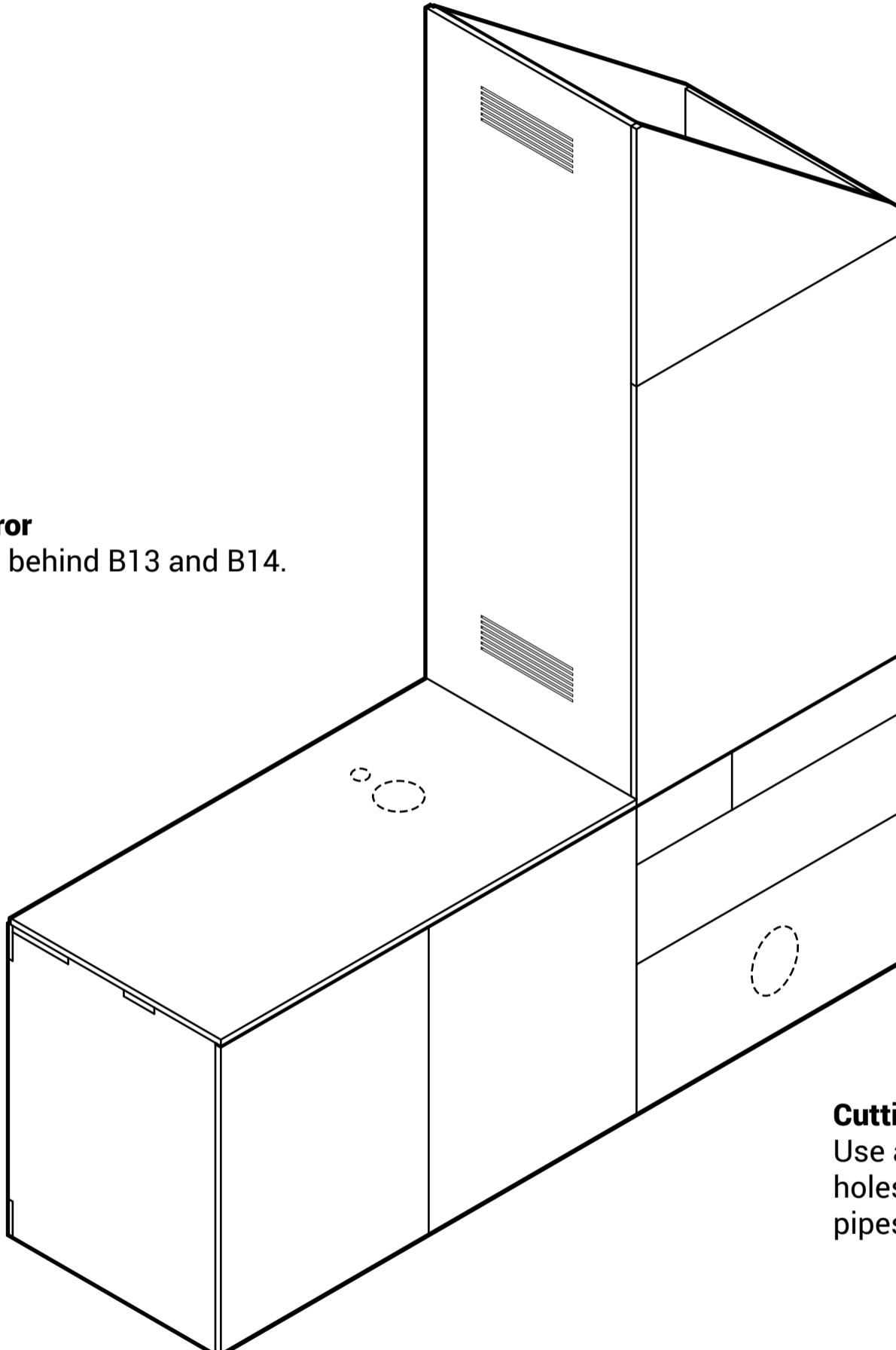
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No visible screws

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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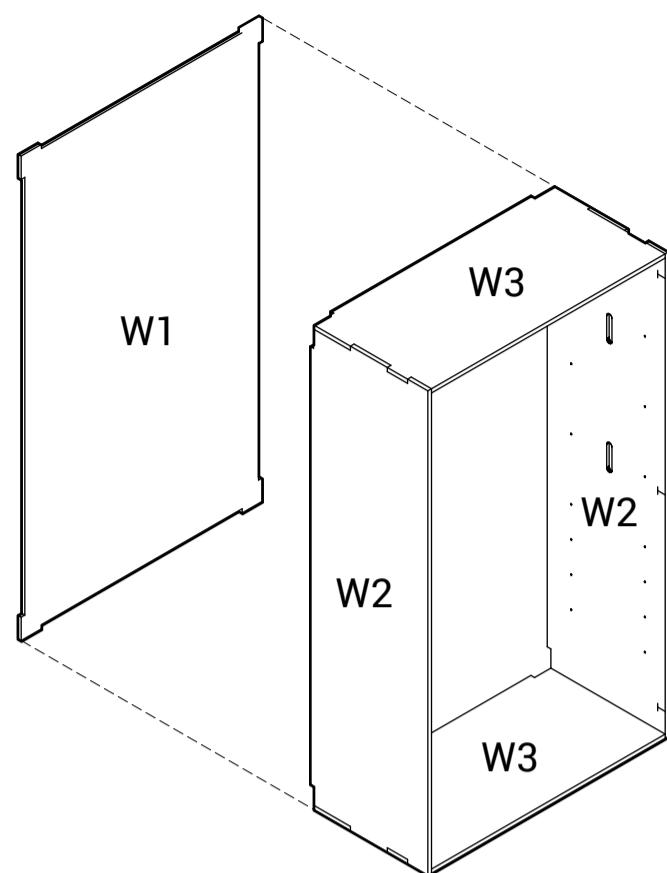
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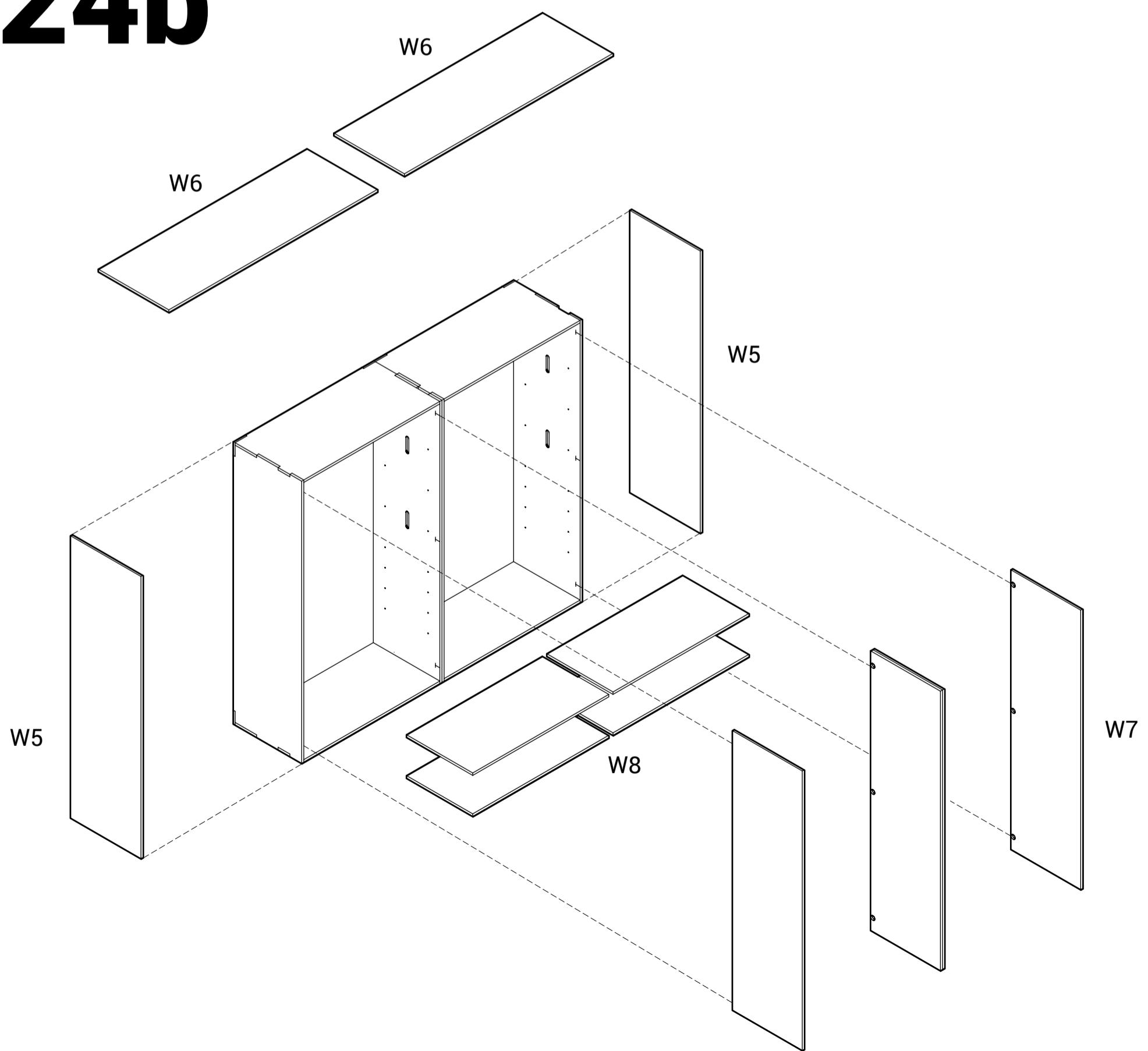
Your name

23

24a



24b



Feedback / design modification suggestions

Please scan all your site notes from the process and compile them into a single document. Please upload them to your project folder or email them to

clayton@wikihouse.cc

Micro House

Your project name

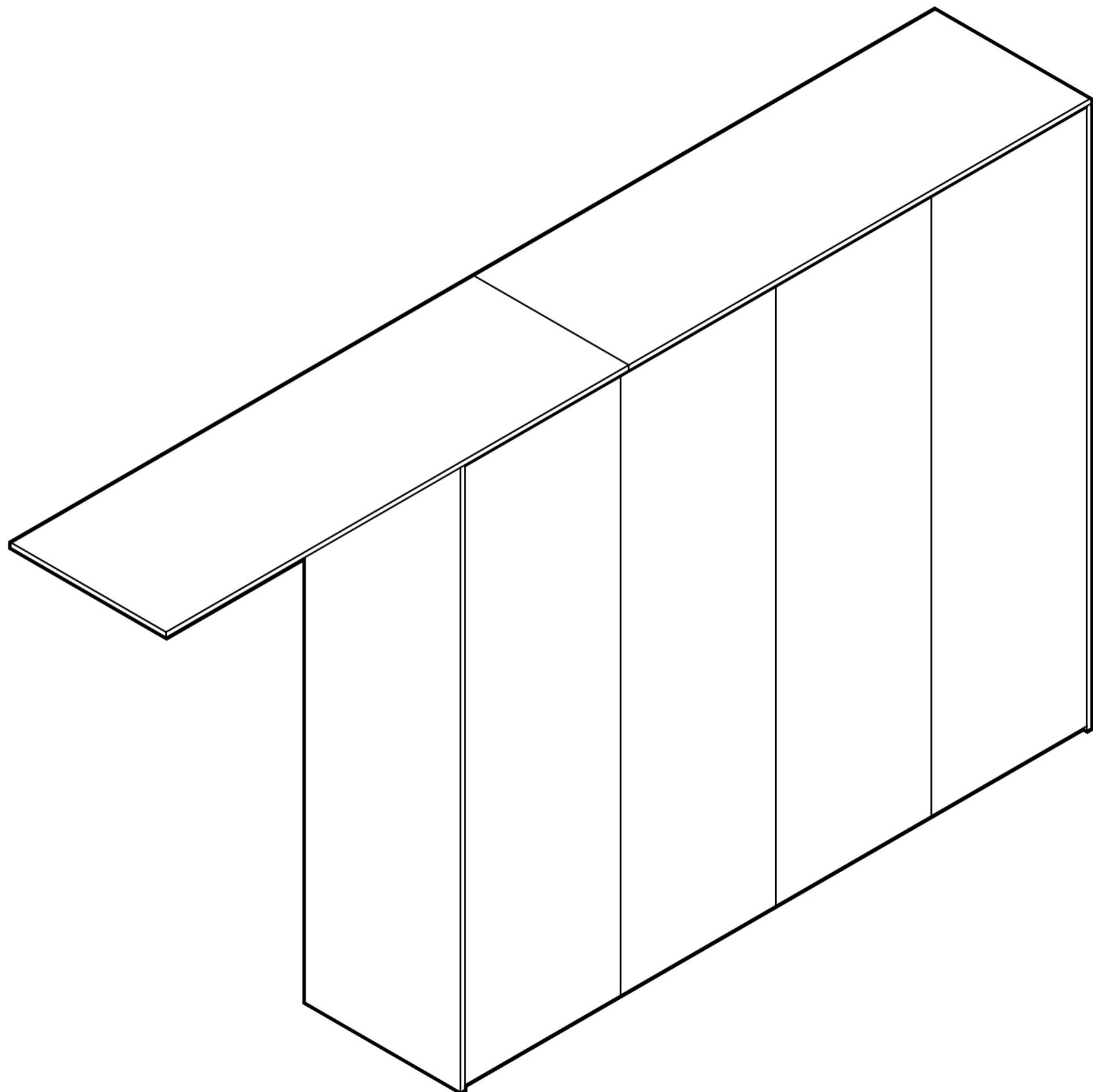
v1.0

Date

Your name

24

24c



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Micro House

Your project name

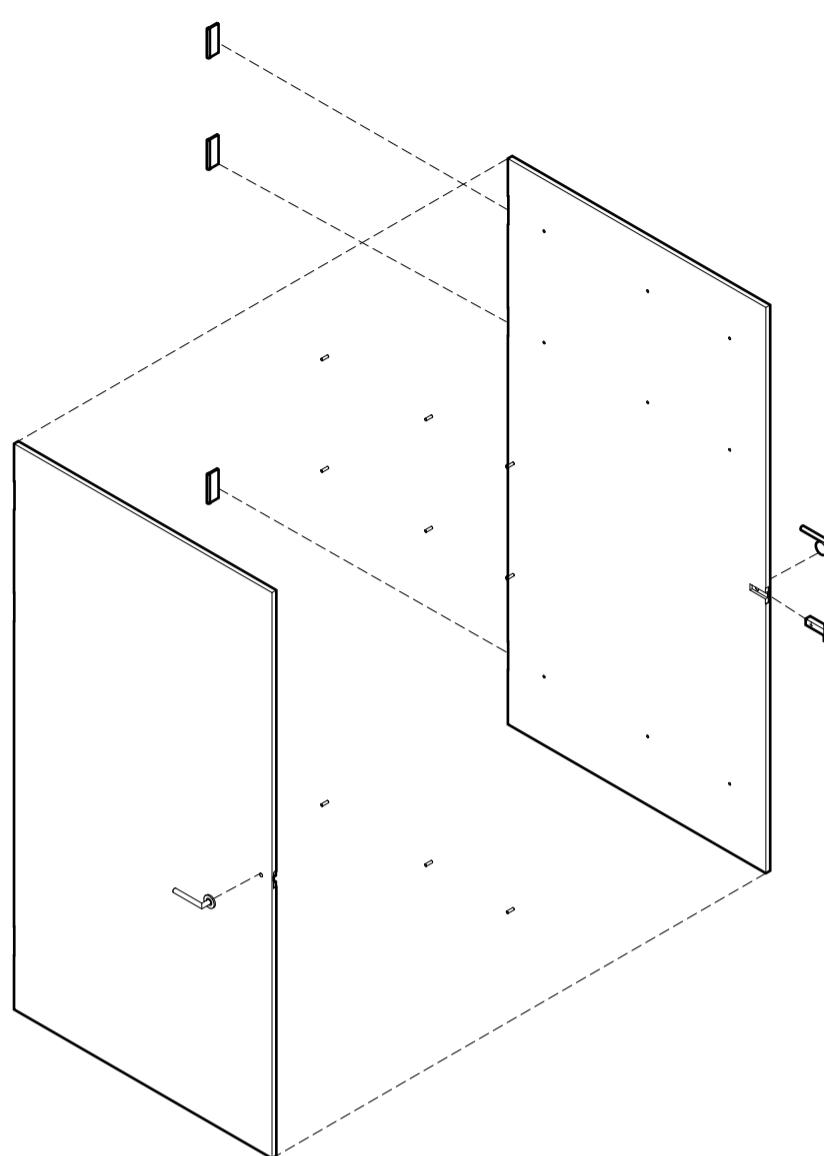
v1.0

Date

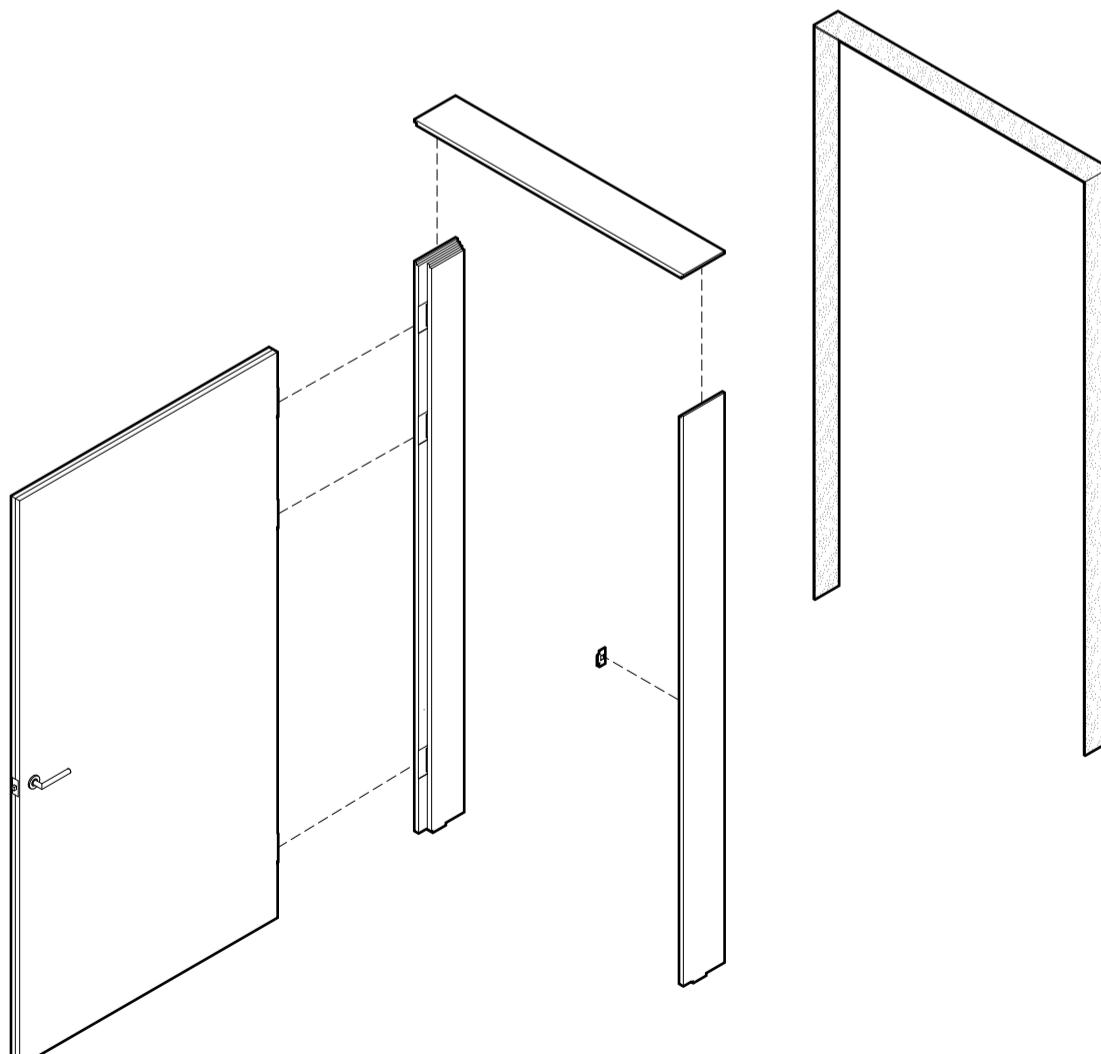
Your name

24

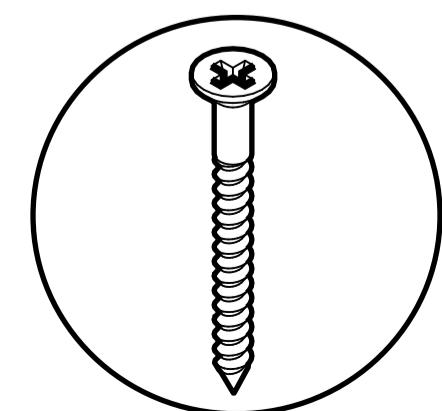
25a



25b



Packer
Use cork packer
between frame and
opening where
needed.



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Micro House

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v1.0

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24

