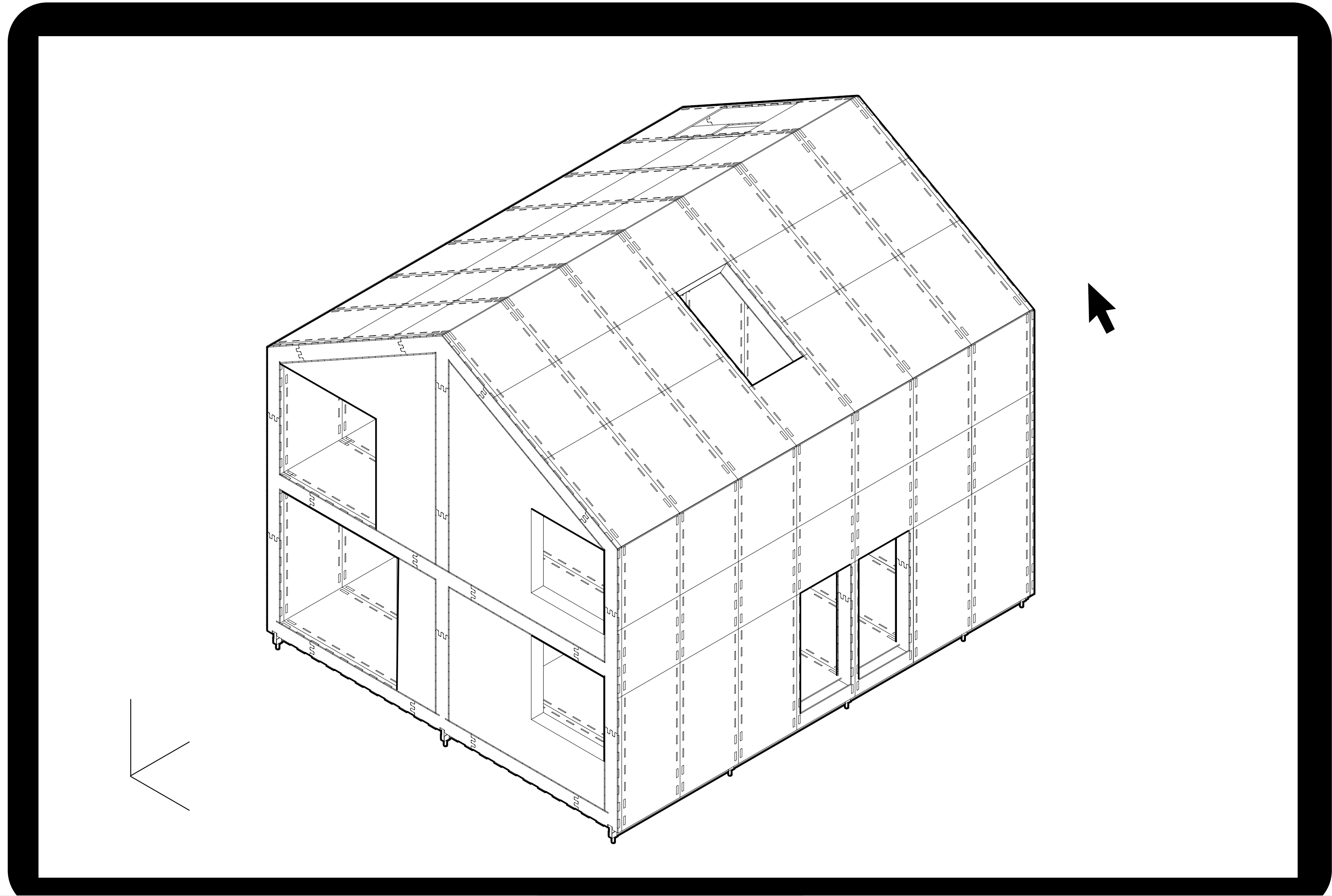
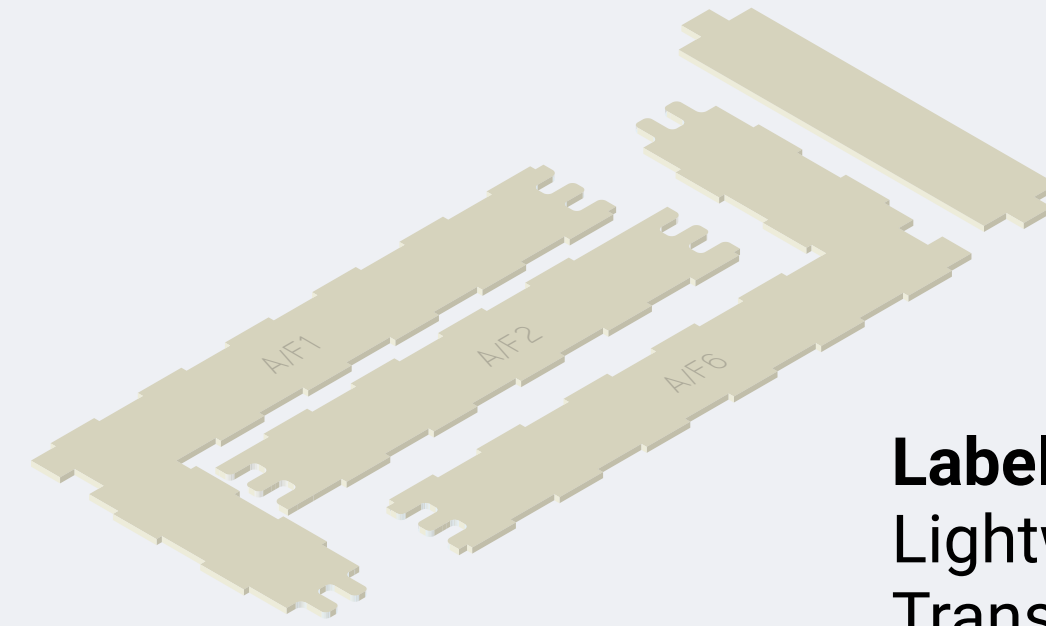
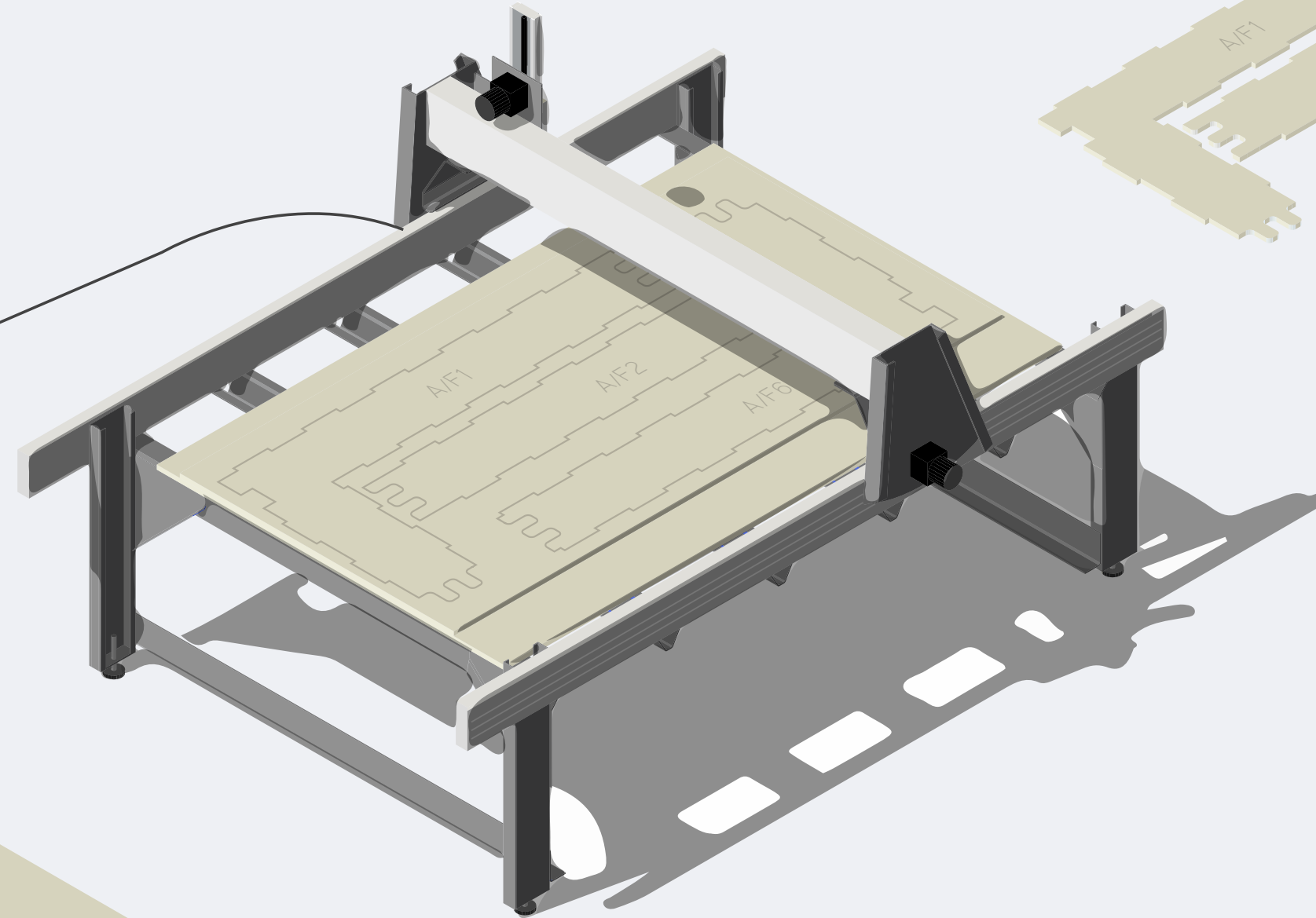
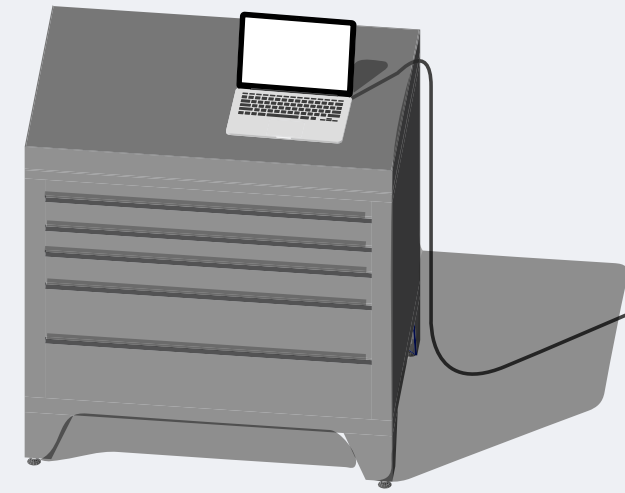


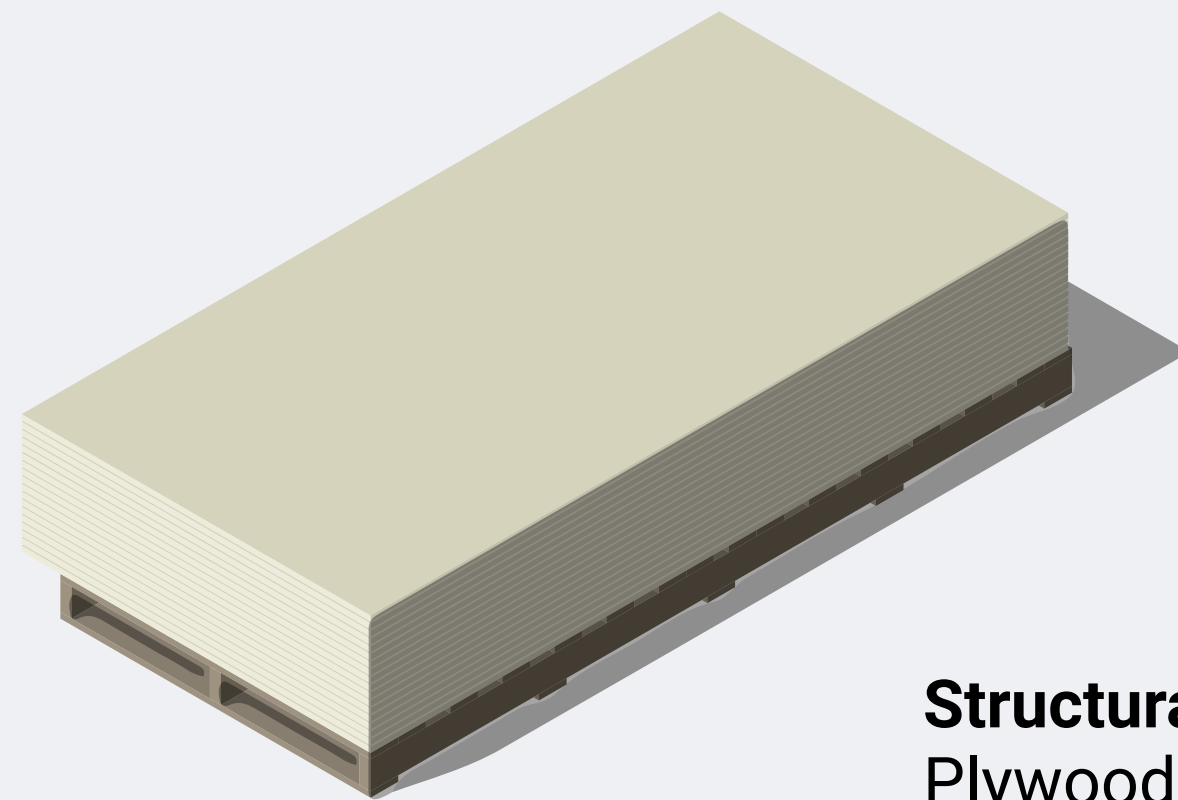
WikiHouse



CNC
1200 x 2400 digital fabrication
machine £11k+



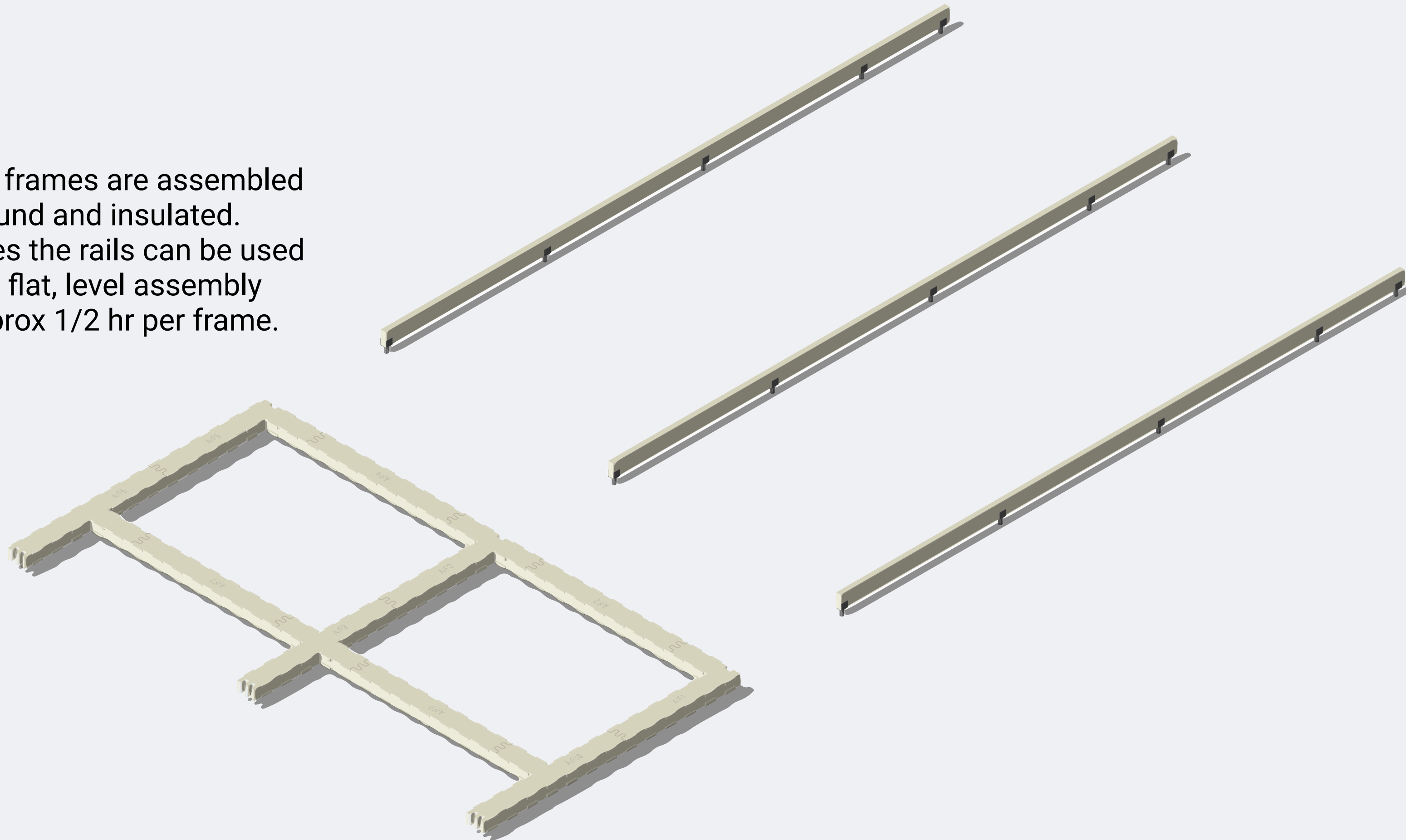
Labelled Components
Lightweight to carry, flatpack.
Transportable by pallet / van.



Structural wood
Plywood or OSB 1200 x 2400

Frames

'Superbox' frames are assembled on flat ground and insulated. (Sometimes the rails can be used to create a flat, level assembly table). Approx 1/2 hr per frame.

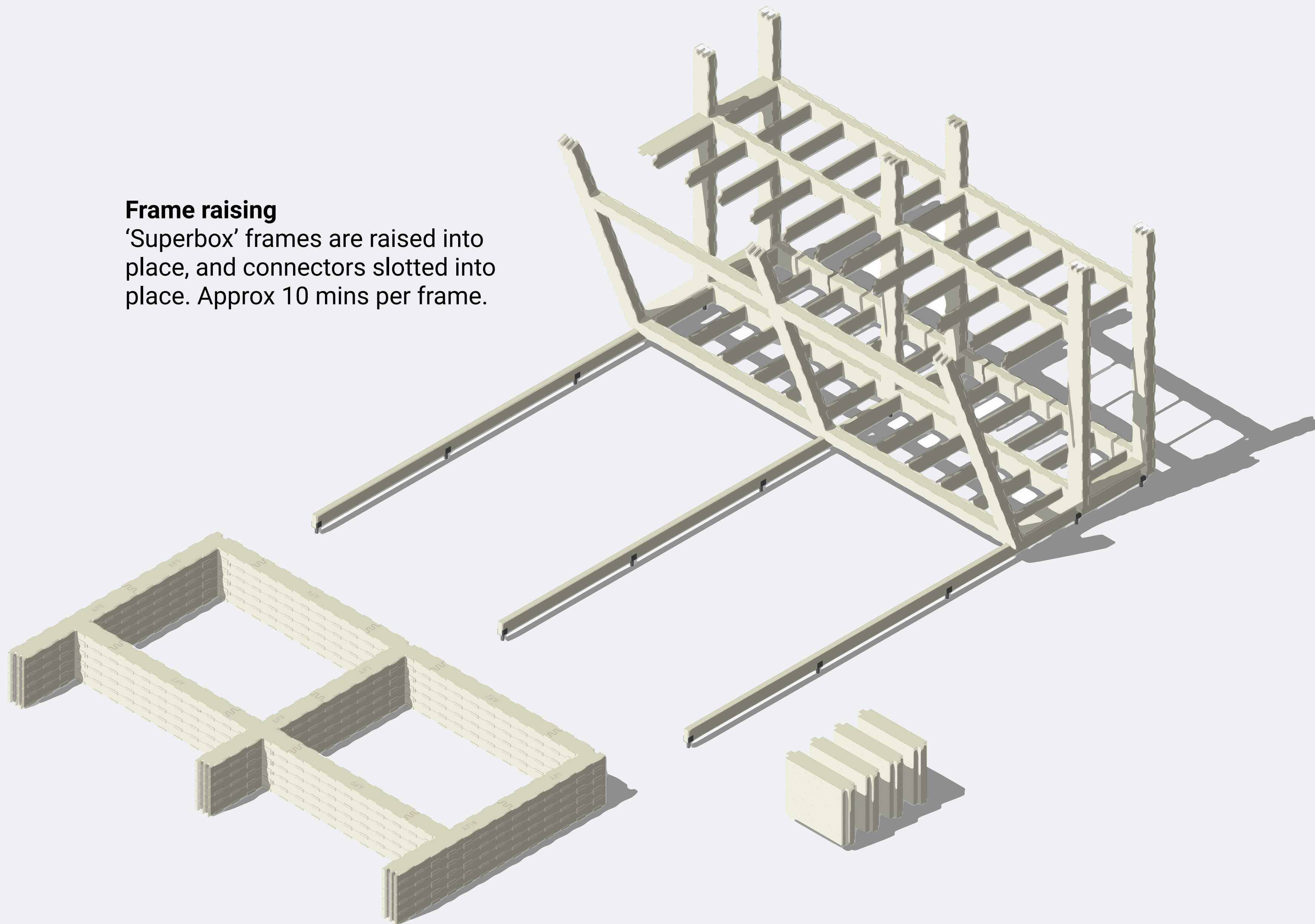


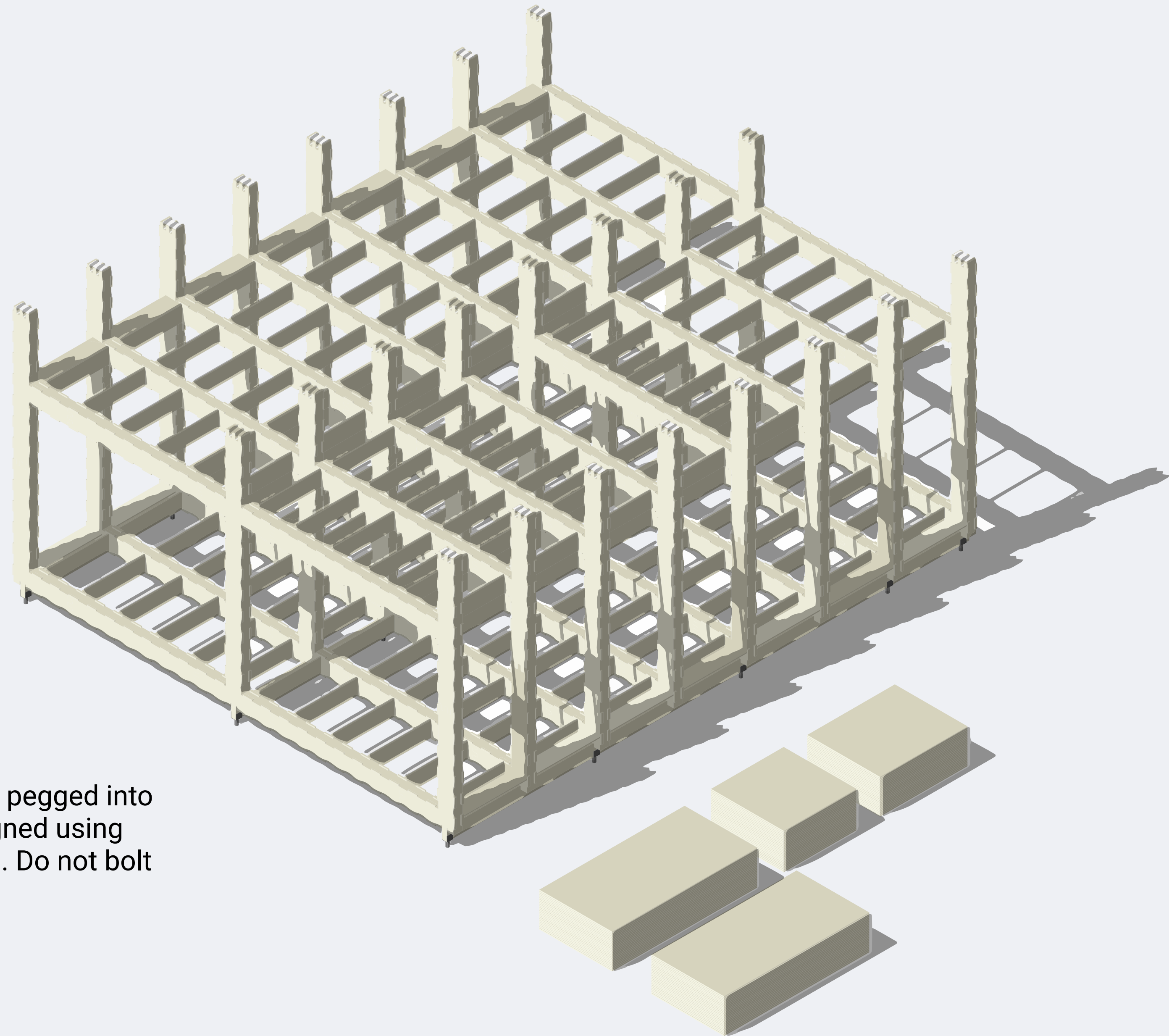
Joist rails

Foundations (usually trench or screw pile) are prepared in advance, with joist rails bolted in place, level and parallel +/- 5mm.

Frame raising

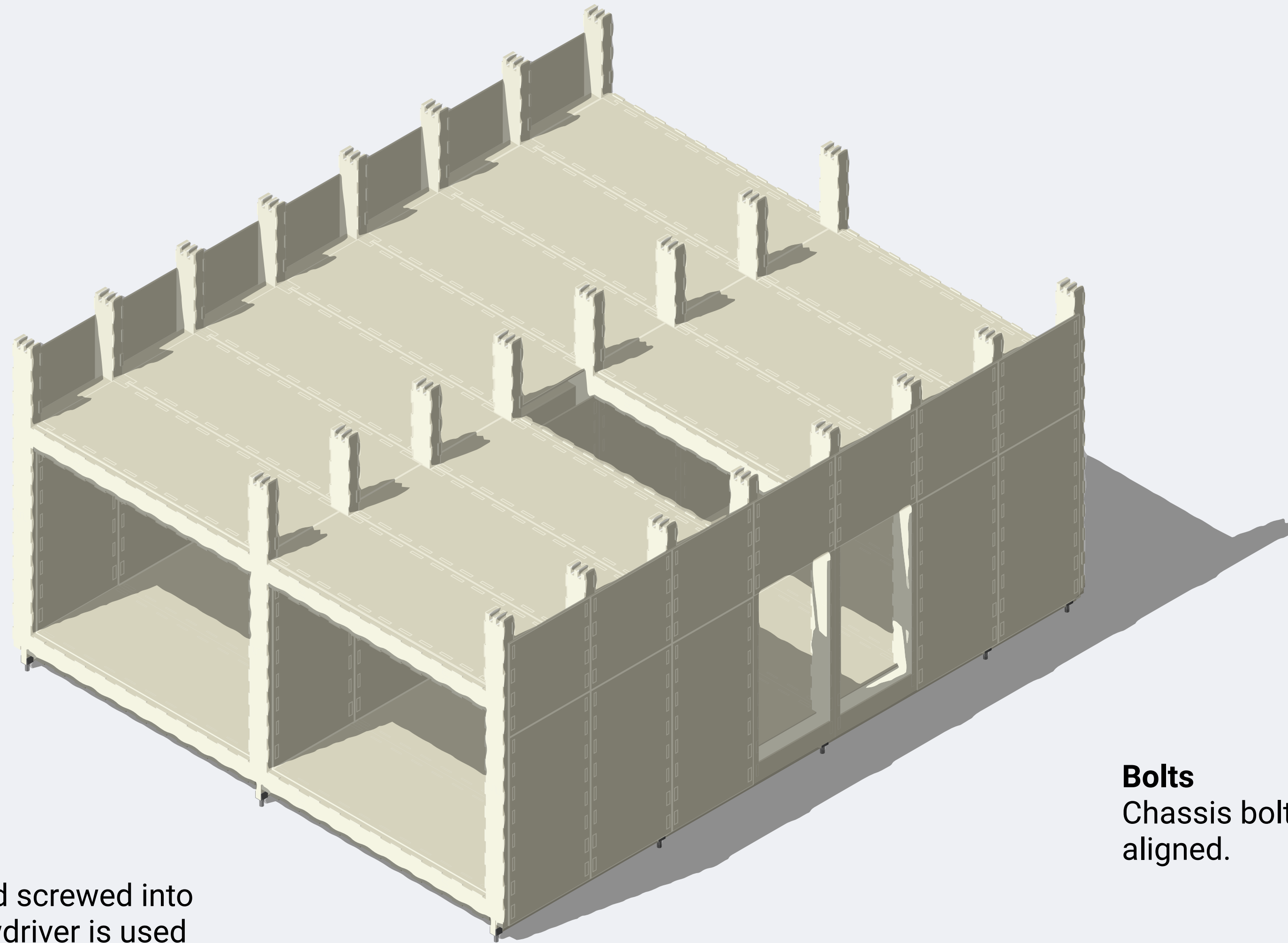
'Superbox' frames are raised into place, and connectors slotted into place. Approx 10 mins per frame.





Frame

'Superbox' frames are pegged into place, and frames aligned using mallets or lorry straps. Do not bolt down yet.

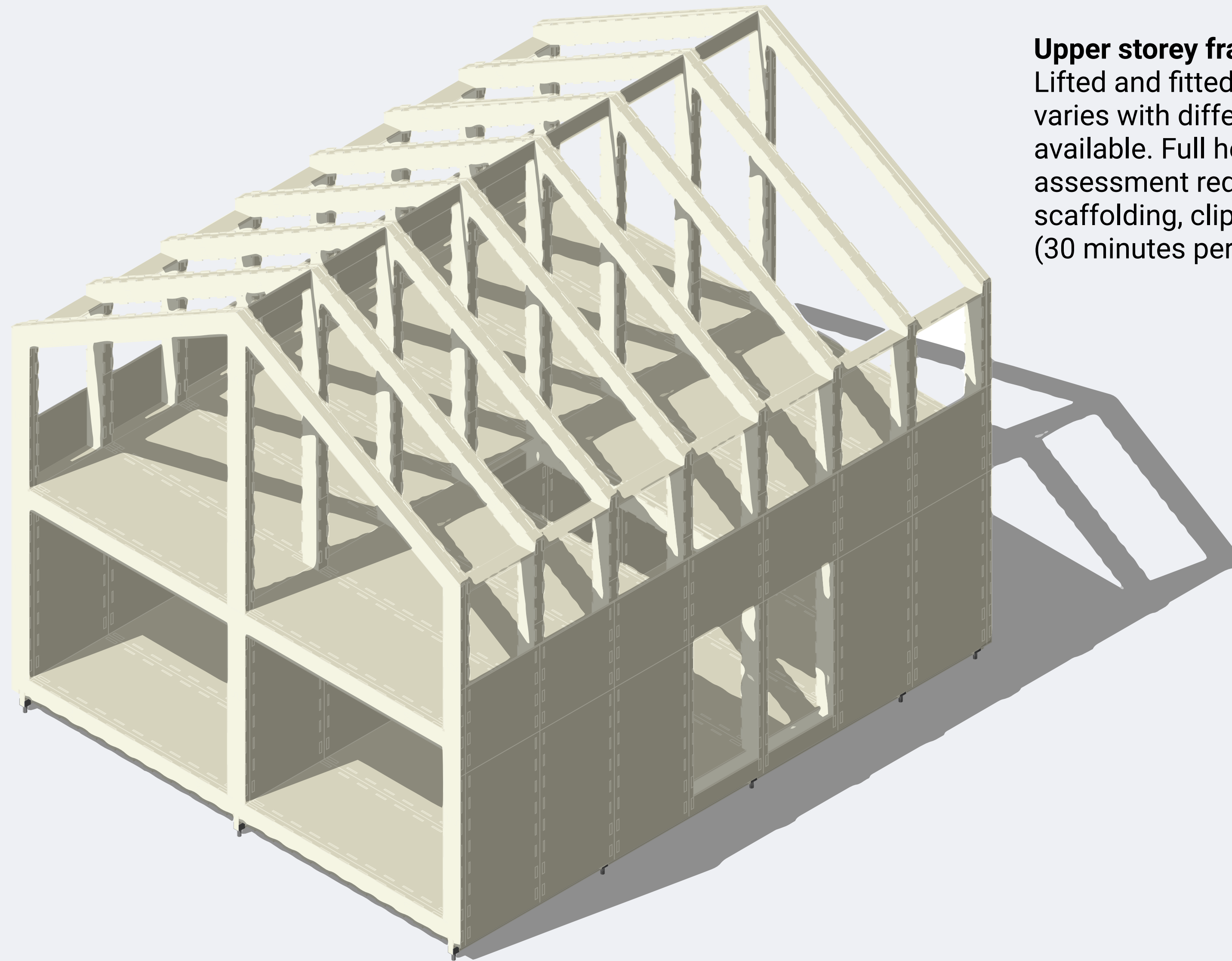


Exterior panels

Panels are fitted and screwed into place. A hand screwdriver is used to align panel onto frame, and panels are screwed into place using electric screwdriver.
(3-10 mins per panel)

Bolts

Chassis bolted to joist rails once aligned.

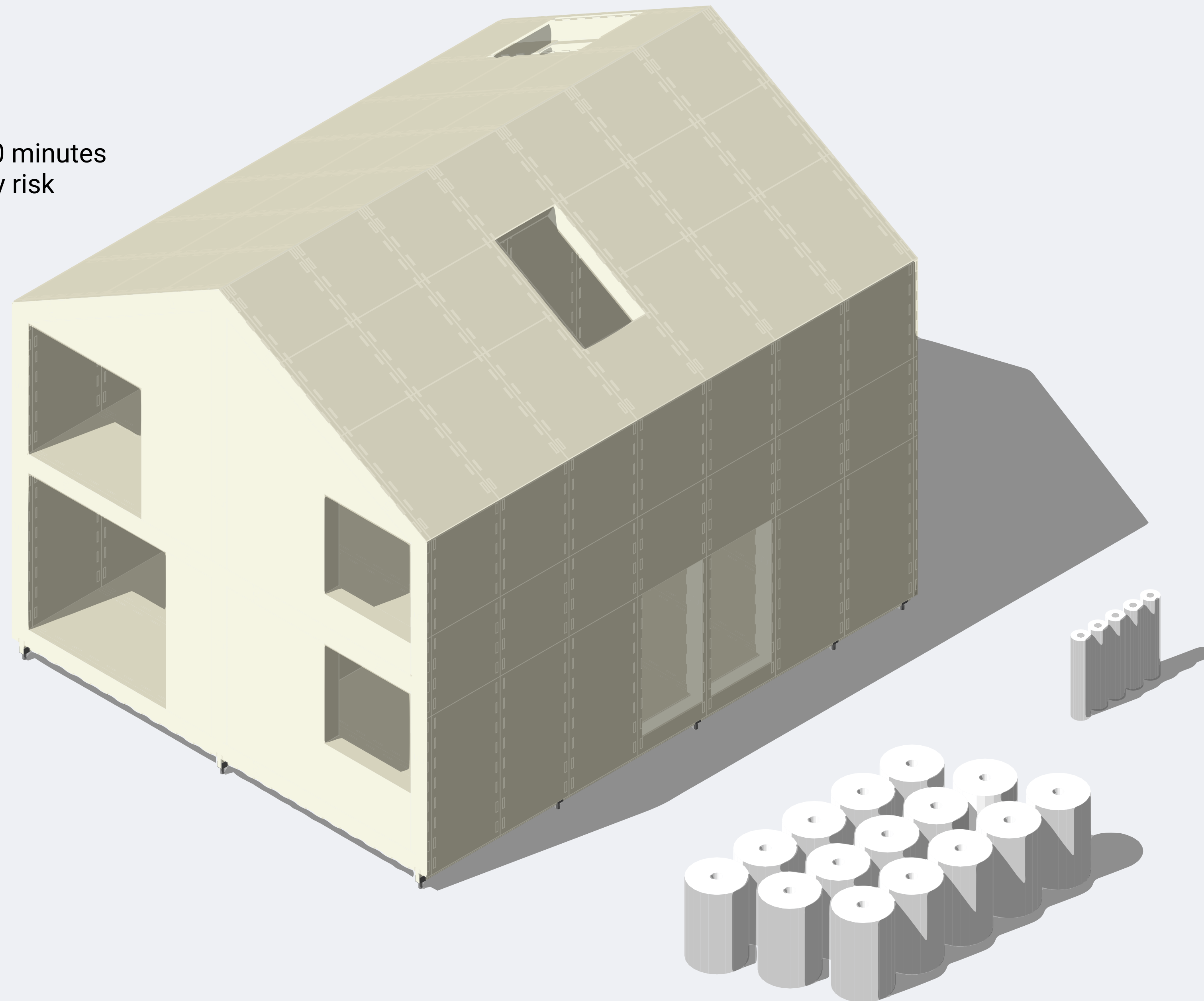


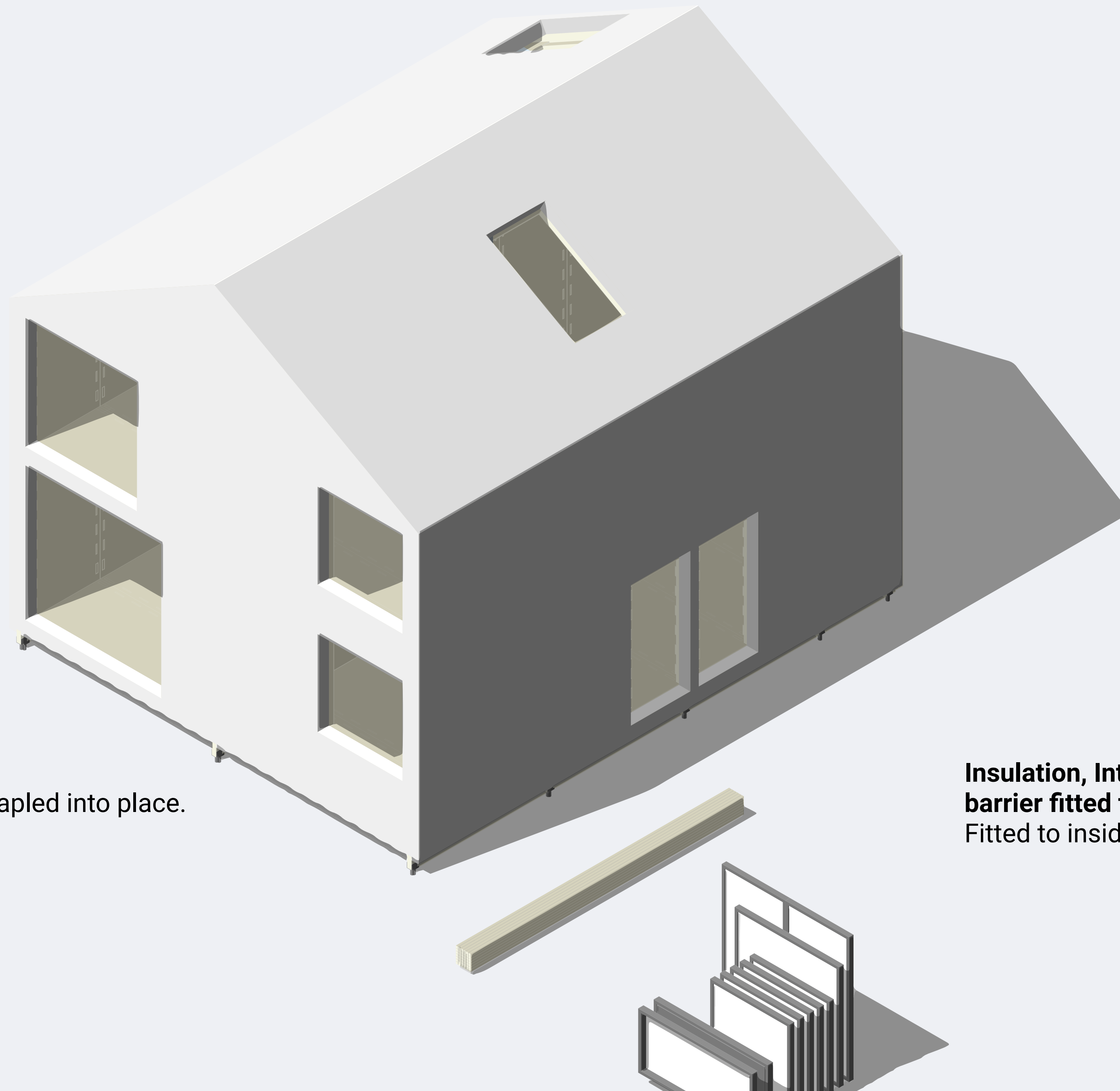
Upper storey frames

Lifted and fitted into place. This process varies with different designs and tools available. Full health and safety risk assessment required and appropriate scaffolding, clip-ons and handrails used. (30 minutes per frame)

Upper storey panels

Lifted and fitted into place. 5-10 minutes per panel. Full health and safety risk assessment to be done.



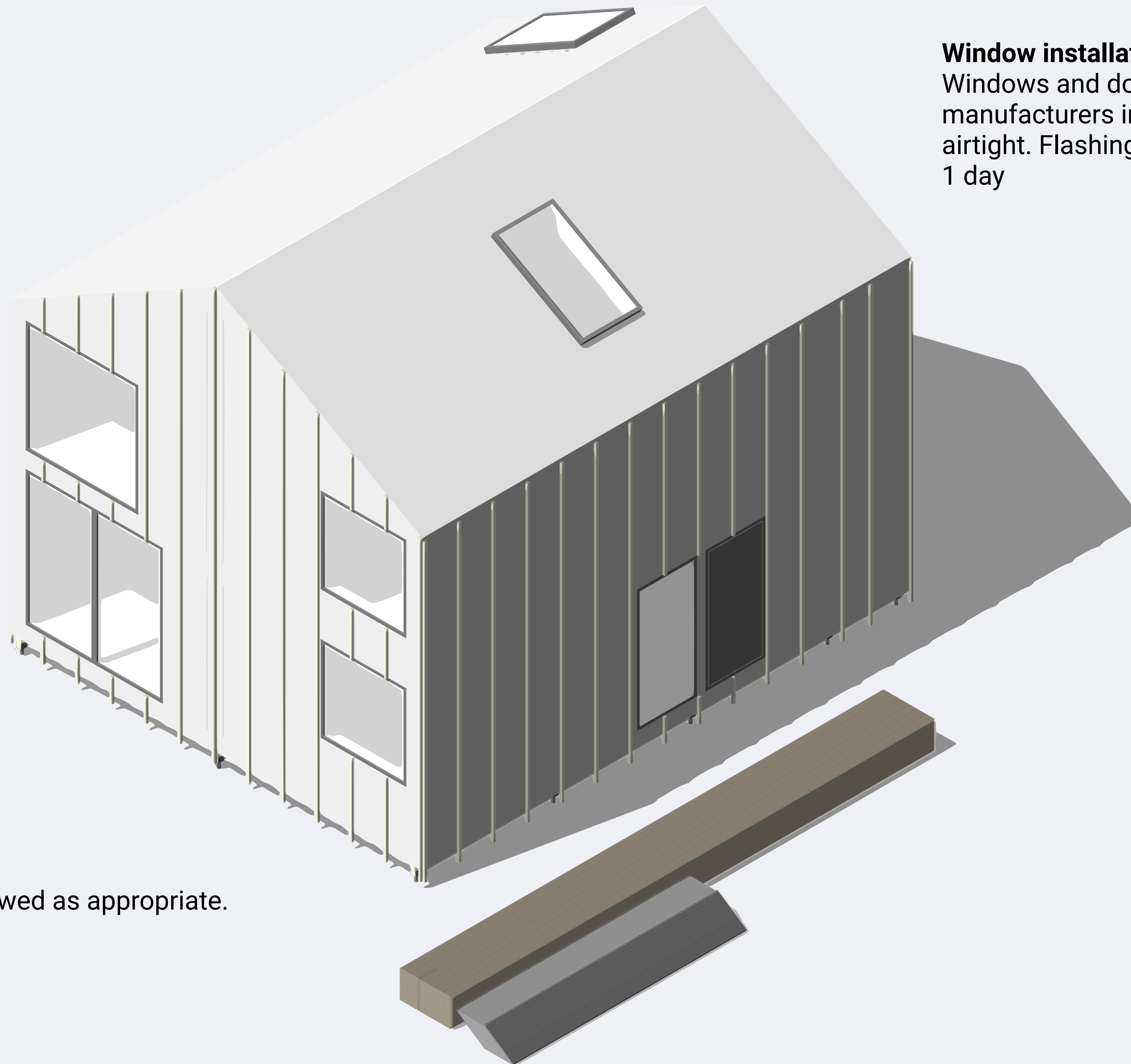


Breather membrane

Tyvek supro or similar. Stapled into place.
2-4 hours.

Insulation, Internal panels and vapour barrier fitted to inside

Fitted to inside. 1-2 days



Window installation

Windows and doors installed as per manufacturers instructions and made airtight. Flashing tape applied to exterior.
1 day

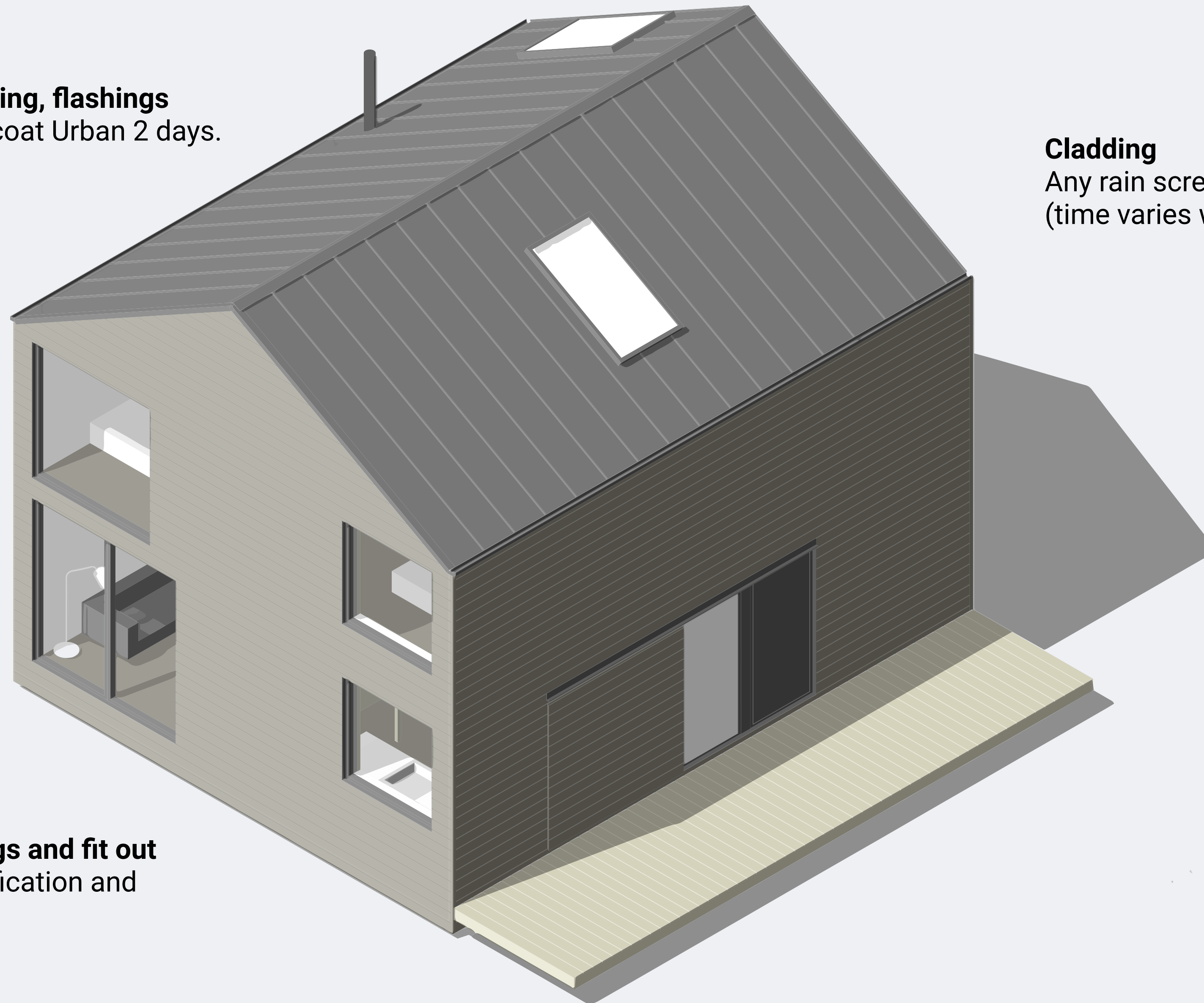
Battens fitted

Standard battens screwed as appropriate.
Approx 4-6 hours.

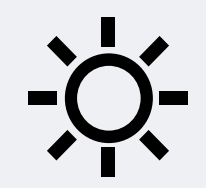
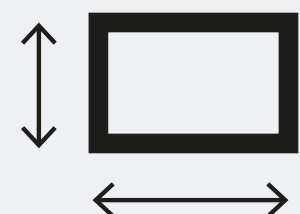
Roof, guttering, flashings
TATA Colorcoat Urban 2 days.

Cladding
Any rain screen cladding fitted to exterior
(time varies with material / system)

Internal services, linings and fit out
Time varies with specification and
logistics. 2-5 weeks.



Customised form & layout

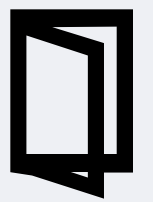


Super low-energy



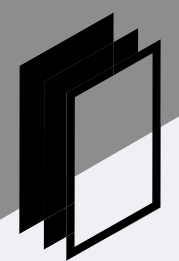
Affordable

Interoperable components based on open standards

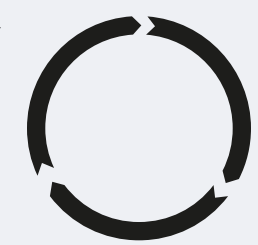


Smart

Easy to maintain or disassemble

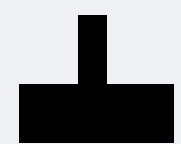


Locally adaptable

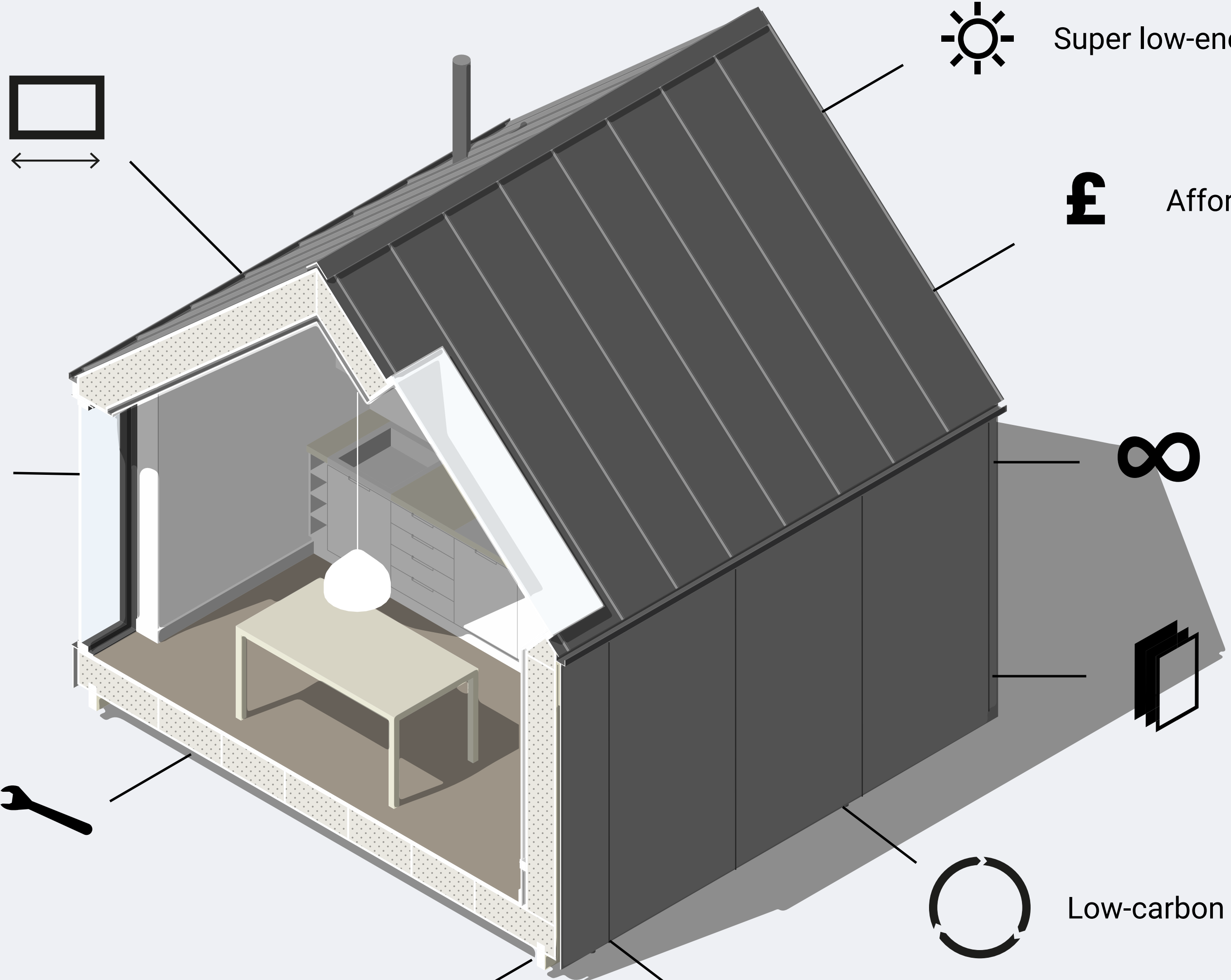


Low-carbon / circular materials

Any foundation type



Open source / replicable

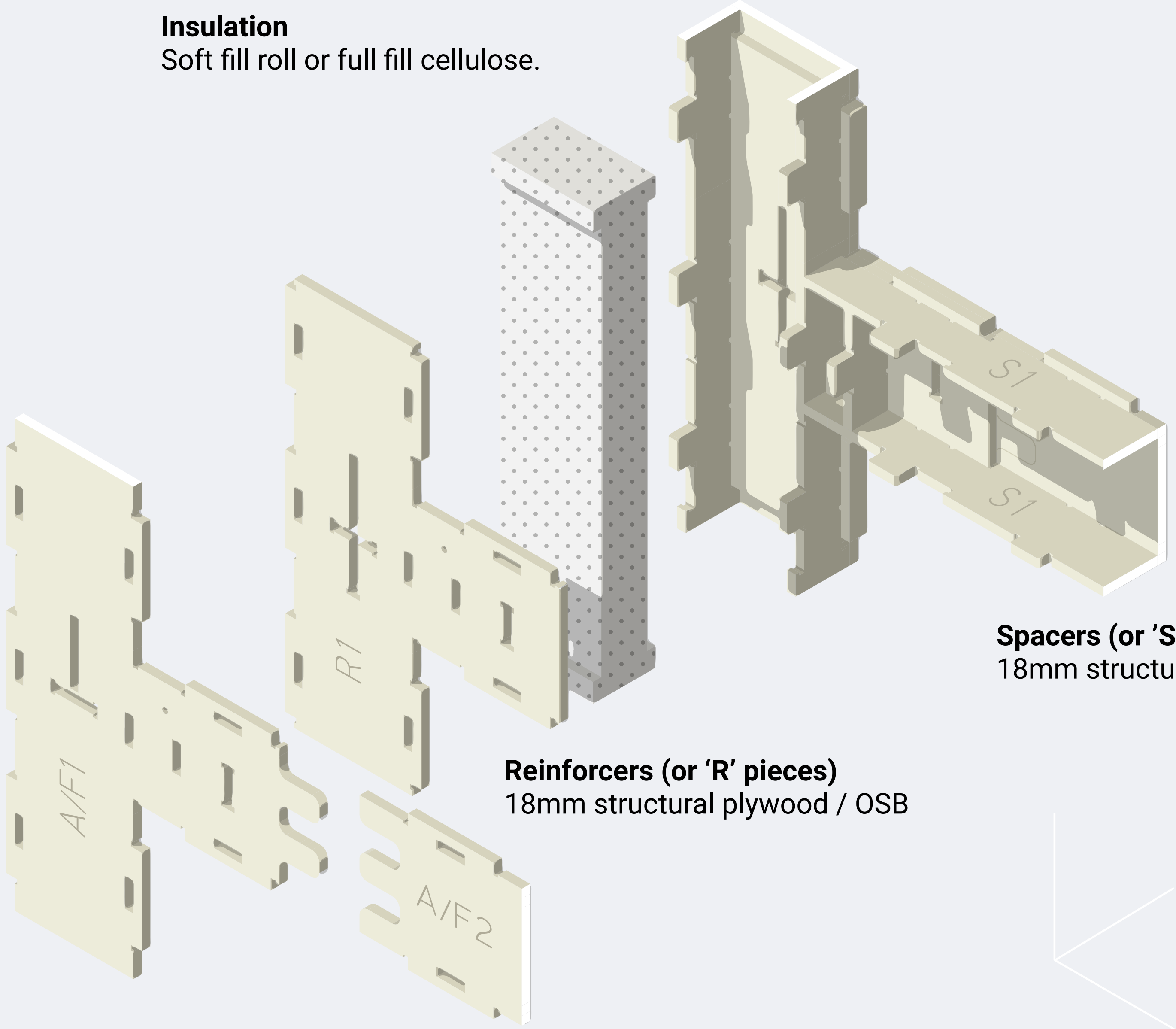


Insulation
Soft fill roll or full fill cellulose.

Spacers (or 'S' pieces)
18mm structural plywood / OSB

Frames (or 'F' pieces)
18mm structural plywood / OSB

Reinforcers (or 'R' pieces)
18mm structural plywood / OSB

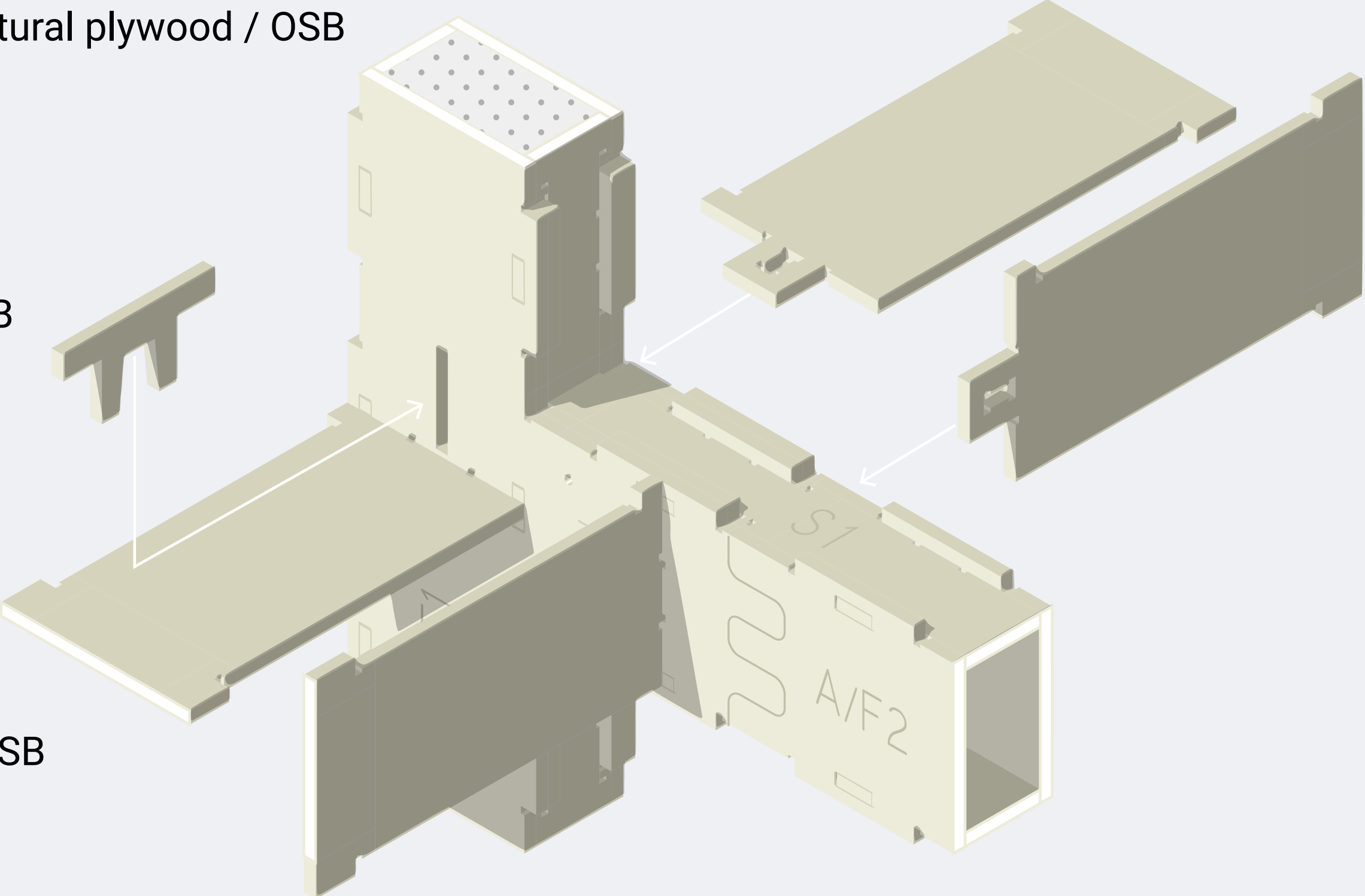


Insulation
Soft fill roll or full fill cellulose.

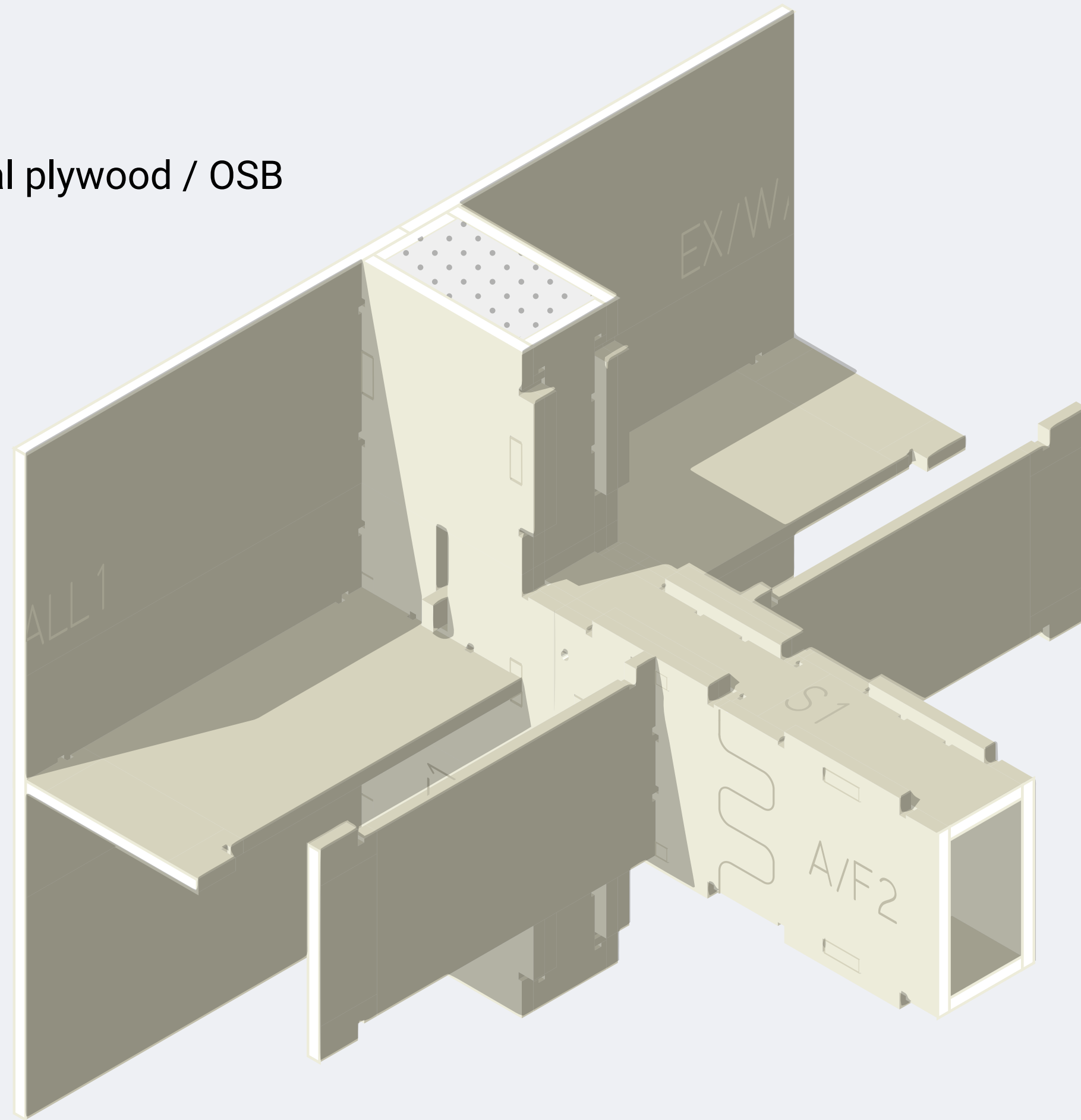
Superbox
18mm structural plywood / OSB

Peg
18mm structural plywood / OSB

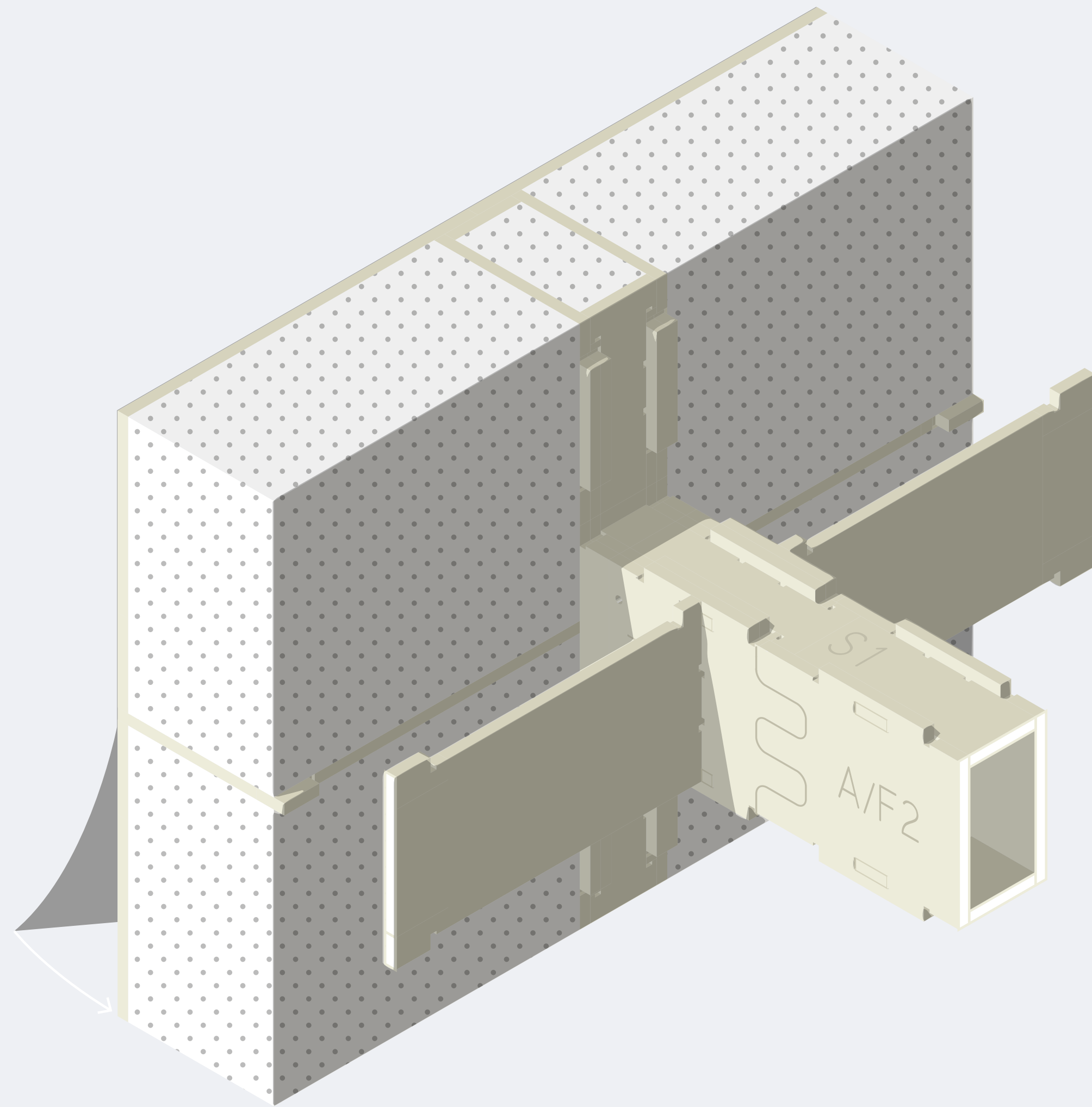
Connectors
18mm structural plywood / OSB



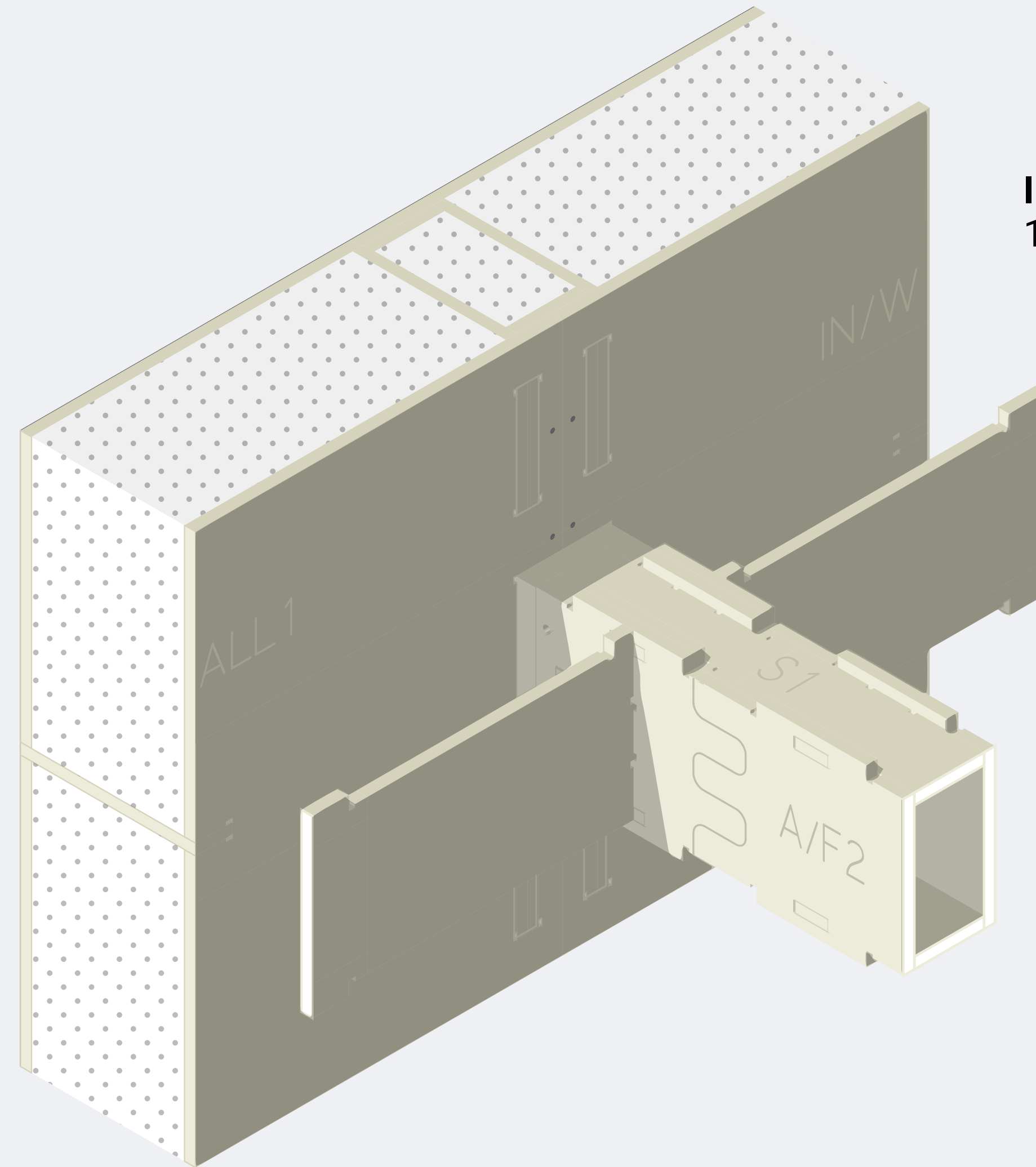
External panels
18mm structural plywood / OSB



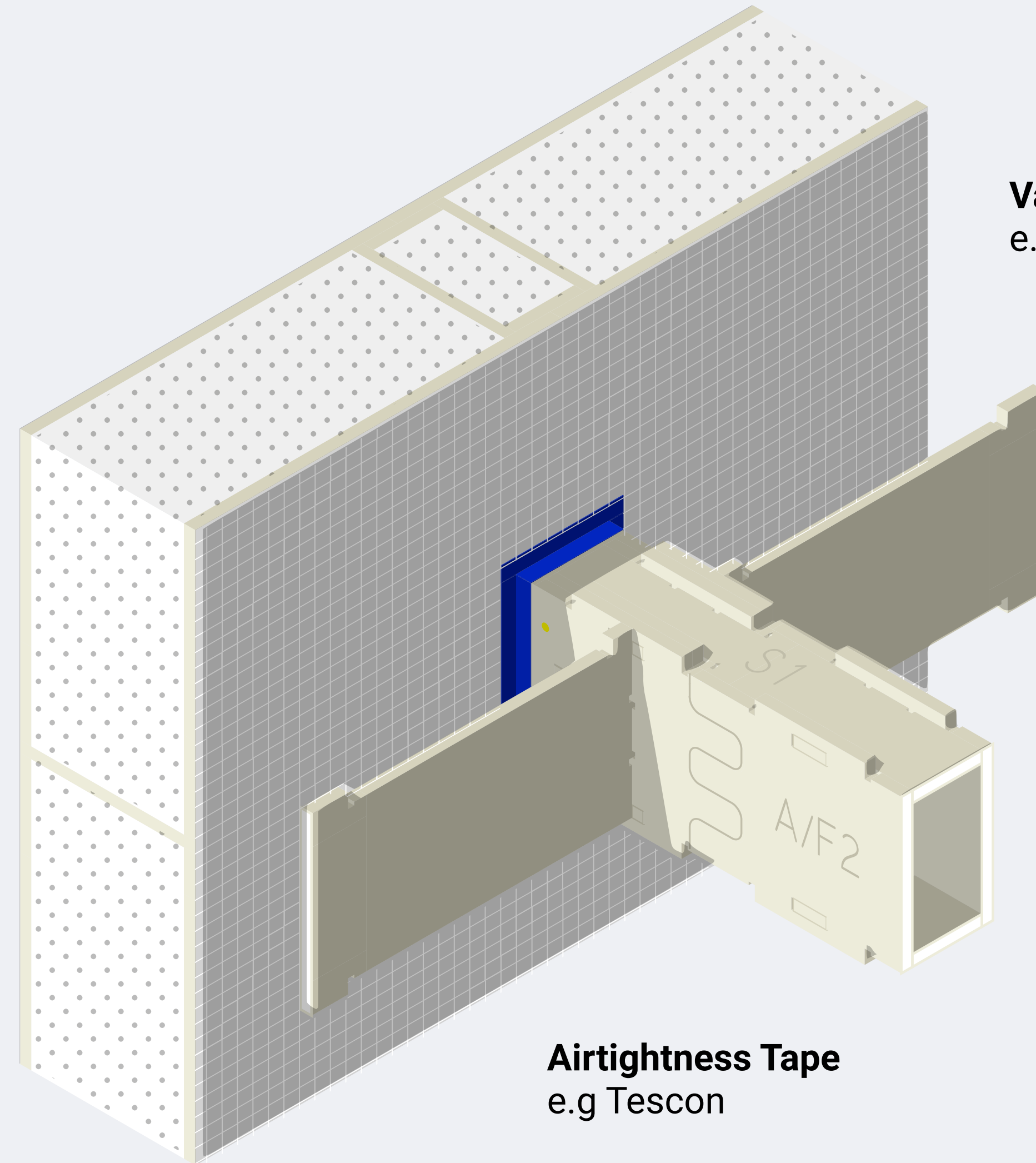
Breather Membrane
Tyvek Supro or similar



Insulation
Soft fill roll (eg Rockwool, sheep's wool or recycled plastic wool) 250mm depth



Internal panels
18mm structural plywood / OSB



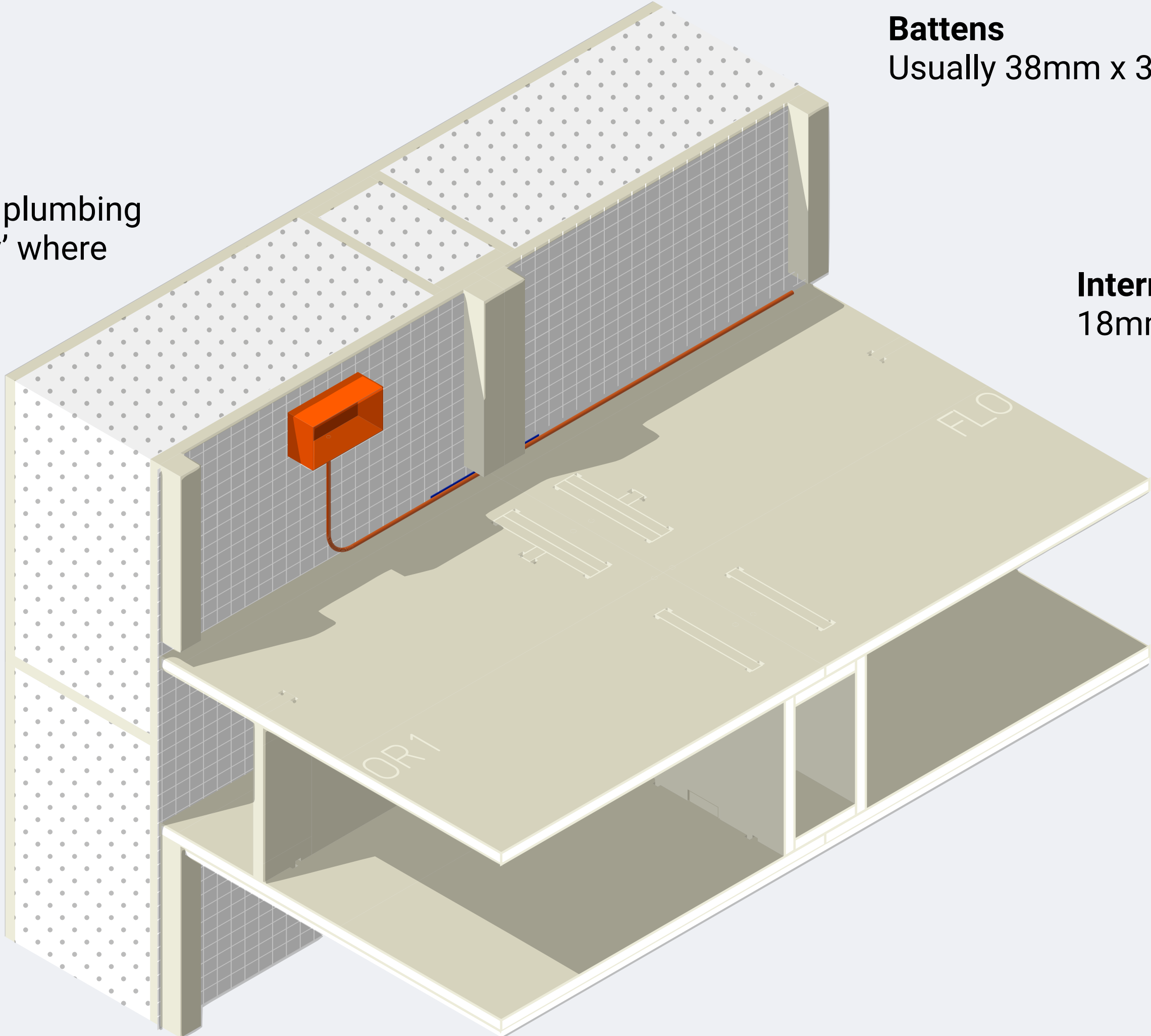
Vapour barrier
e.g Intello

Expanding foam
Small amount applied to superbox corner
compartment through delivery hole

Airtightness Tape
e.g Tescon

Services

As standard, including wiring, plumbing and ventilation. 'Plug and play' where possible.

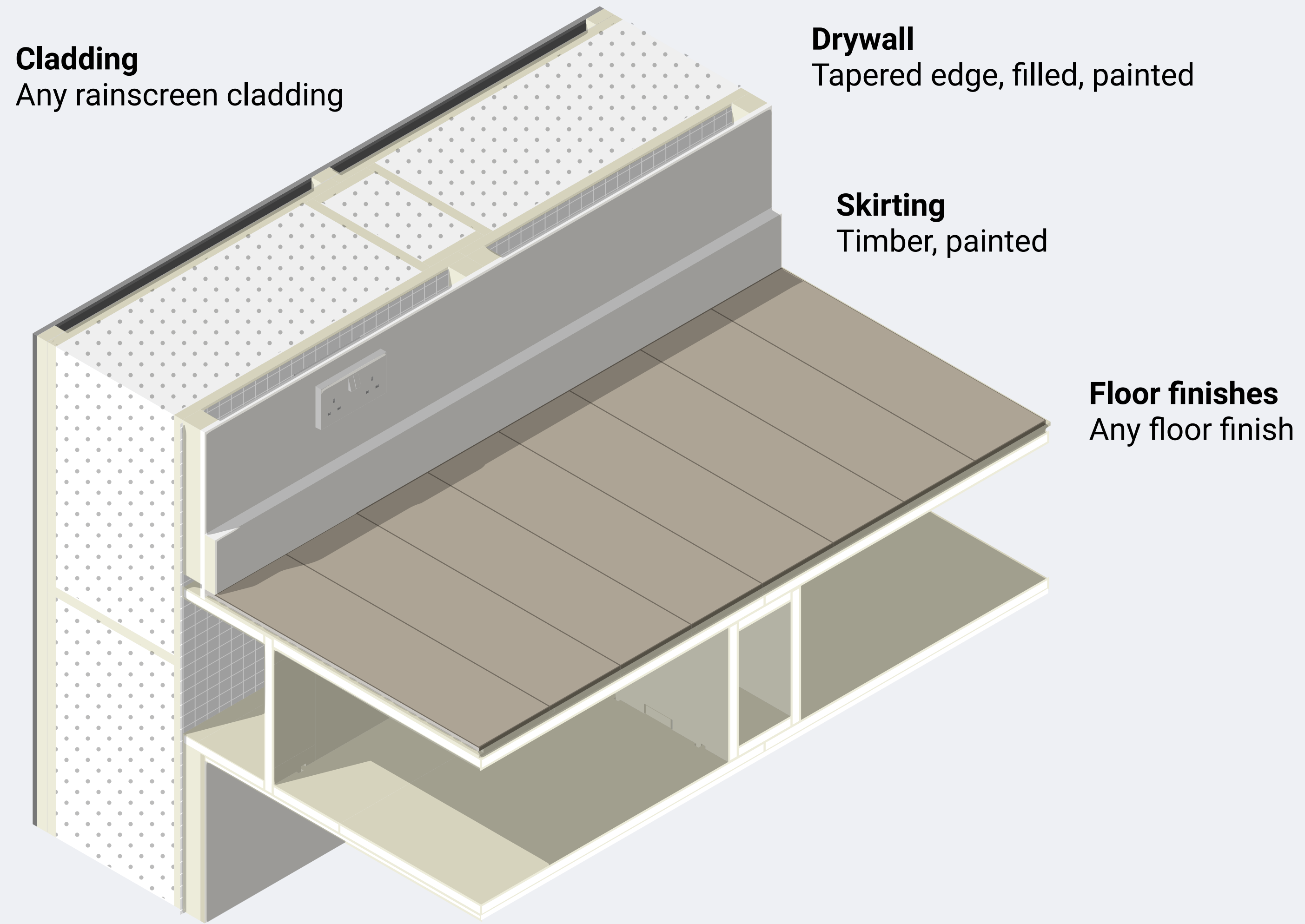


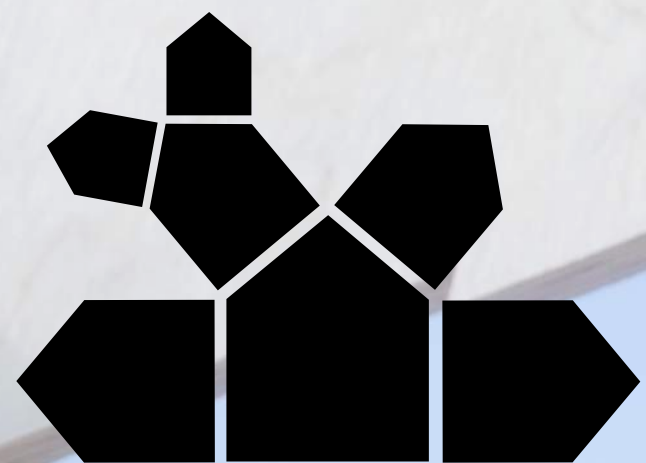
Battens

Usually 38mm x 38mm softwood

Internal floor and ceiling panels

18mm structural plywood or OSB





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