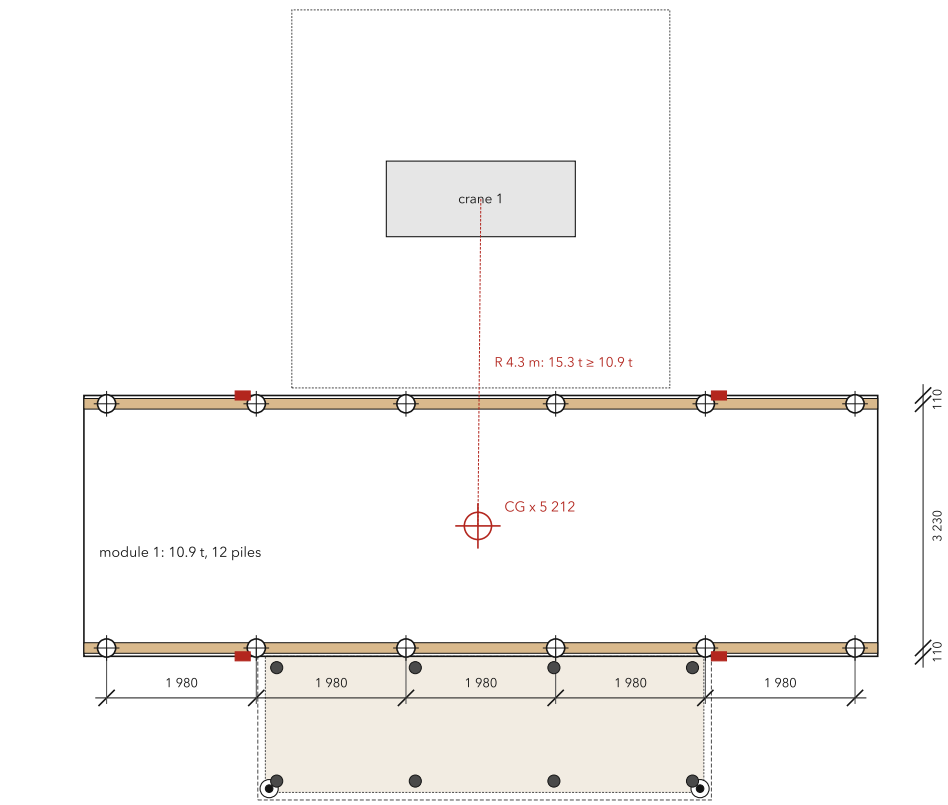
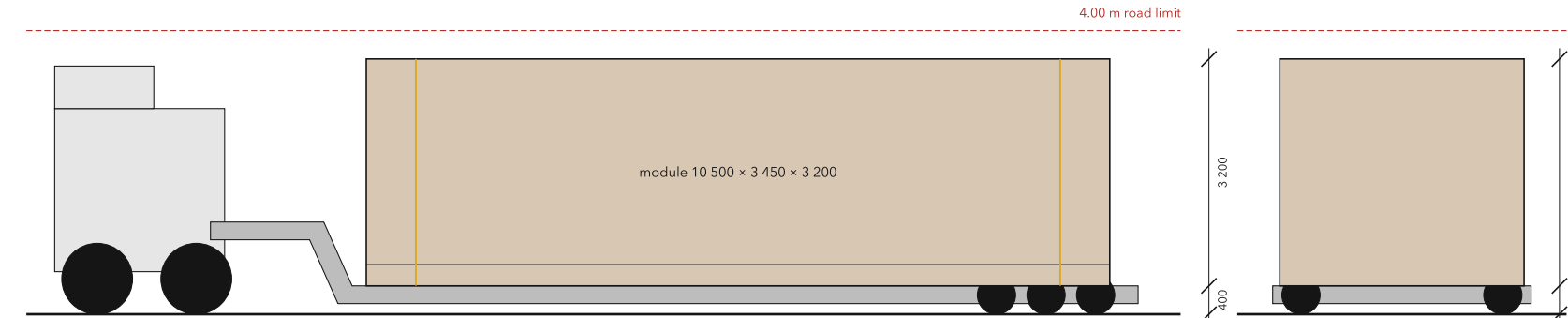
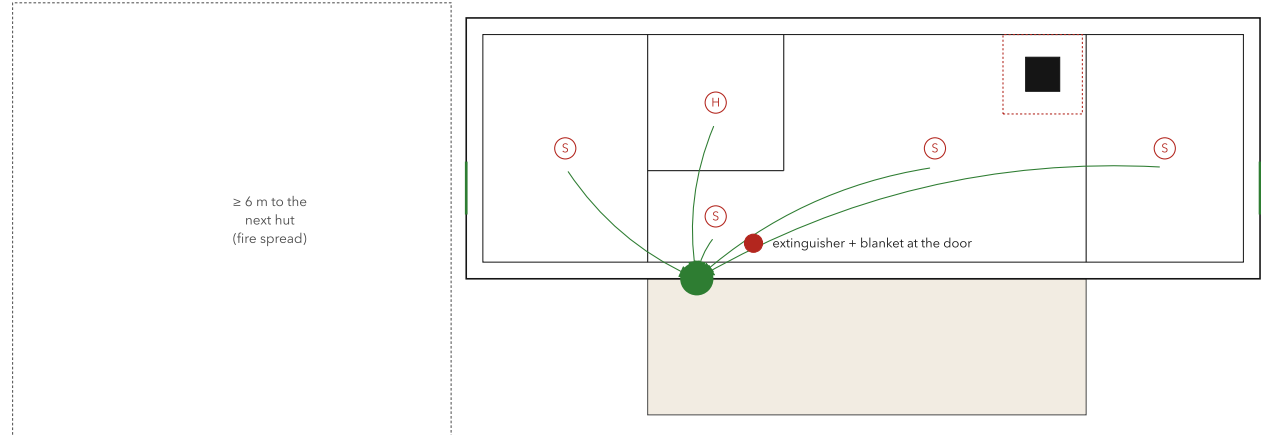




9 PILES, LIFTING POINTS, CRANE SET-UPS
1:100



10 TRANSPORT ON A SEMI-LOW-LOADER
1:100



15 FIRE SAFETY AND ESCAPE
1:100

green: exits + escape windows - S: smoke/CO alarm - H: heat detector (wet rooms) - red: stove clearance / fire wall

LIFT MASS, ITEMISED

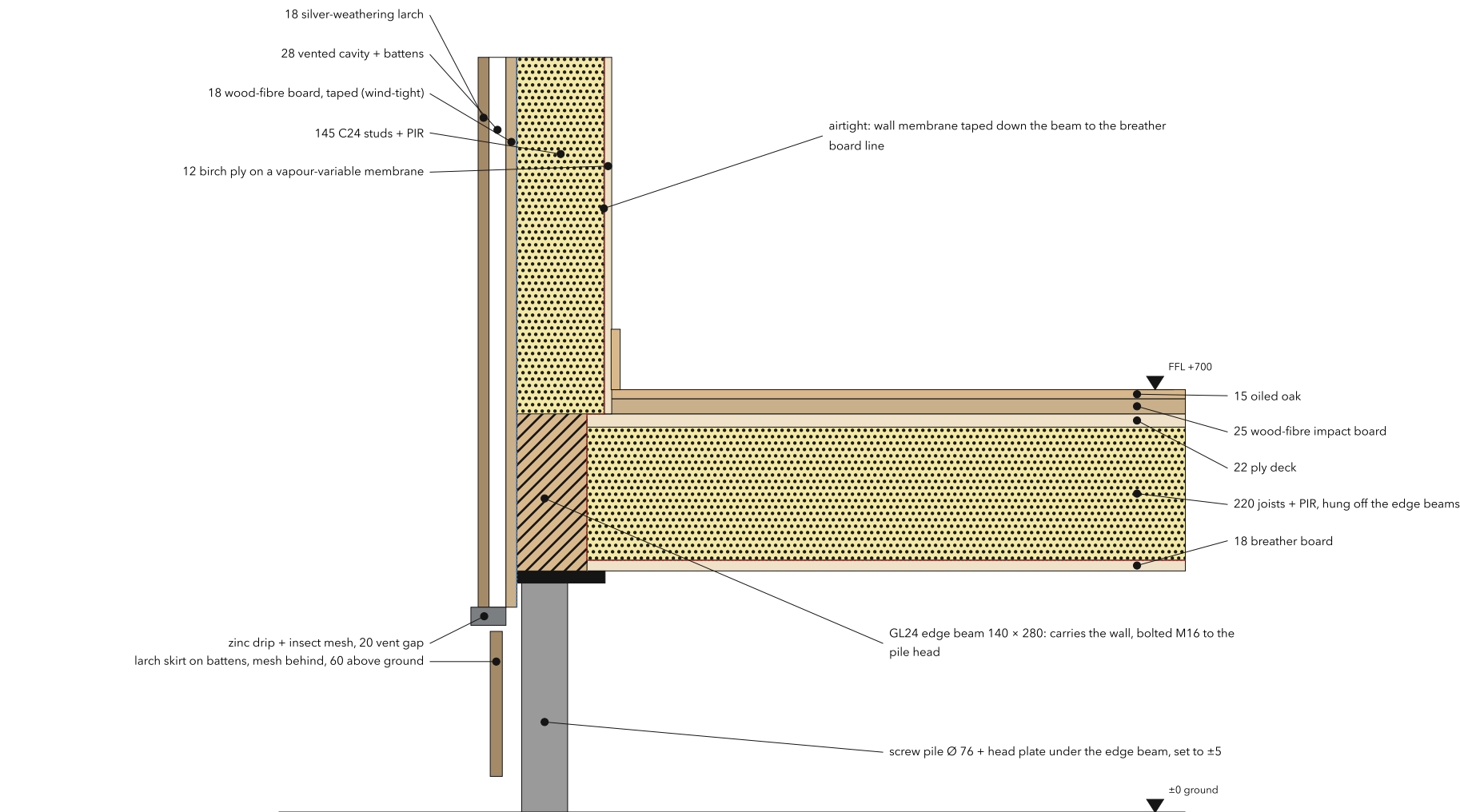
Group	Mass
Floor cassette	2 101 kg
Walls	3 805 kg
Roof	1 894 kg
Glazing + doors	320 kg
Kitchen	226 kg
Bathroom	125 kg
Stove	125 kg
Beds + seating	258 kg
Joinery	568 kg
Services	388 kg
Linen + kit	62 kg
Lifting	60 kg
Contingency 10%	992 kg
Total lift, module 1	10 914 kg

BUILDING PHYSICS (CONCEPT)

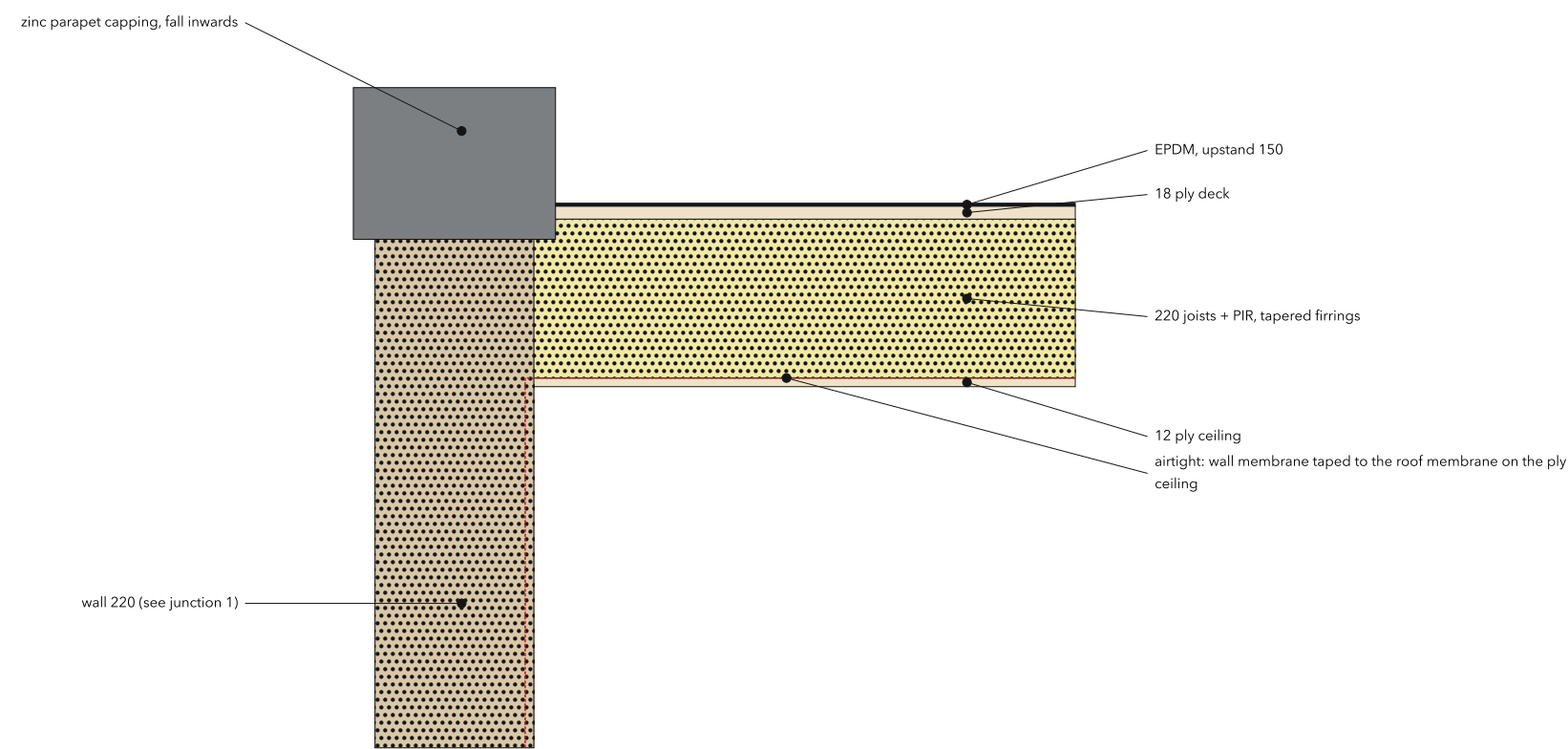
Areas	walls 79 m ² , roof 36 m ² , floor 36 m ² , glazing 10.0 m ² (33 % of the floor)
Heat loss	H _L 144.9 W/K (incl. ΔU 0.05 for bridge) + H _V 3.0 W/K = 48.0 W/K + 30 K (20 / -10 °C) = 1.44 kW
Demand	= 2003 kWh/yr space heat, = 66 kWh/m ² /yr; heat pump SCOP 3.5 → = 572 kWh electricity
Supply	air-to-air heat pump 2.5 kW covers the peak; stove 3.5 kW (burn-down 2 kW) is fired in the evening and in shoulder seasons, intermittently, with a 120 kg stone heat store round it; the heat pump does the base load; 1.6 kWh/yr PV = 1360 kWh/yr
Overheating	glazing g 0.5, roof overhangs/porches on the sunny glass, MVR summer bypass = night purge via tilt windows

INSTALLATION SEQUENCE

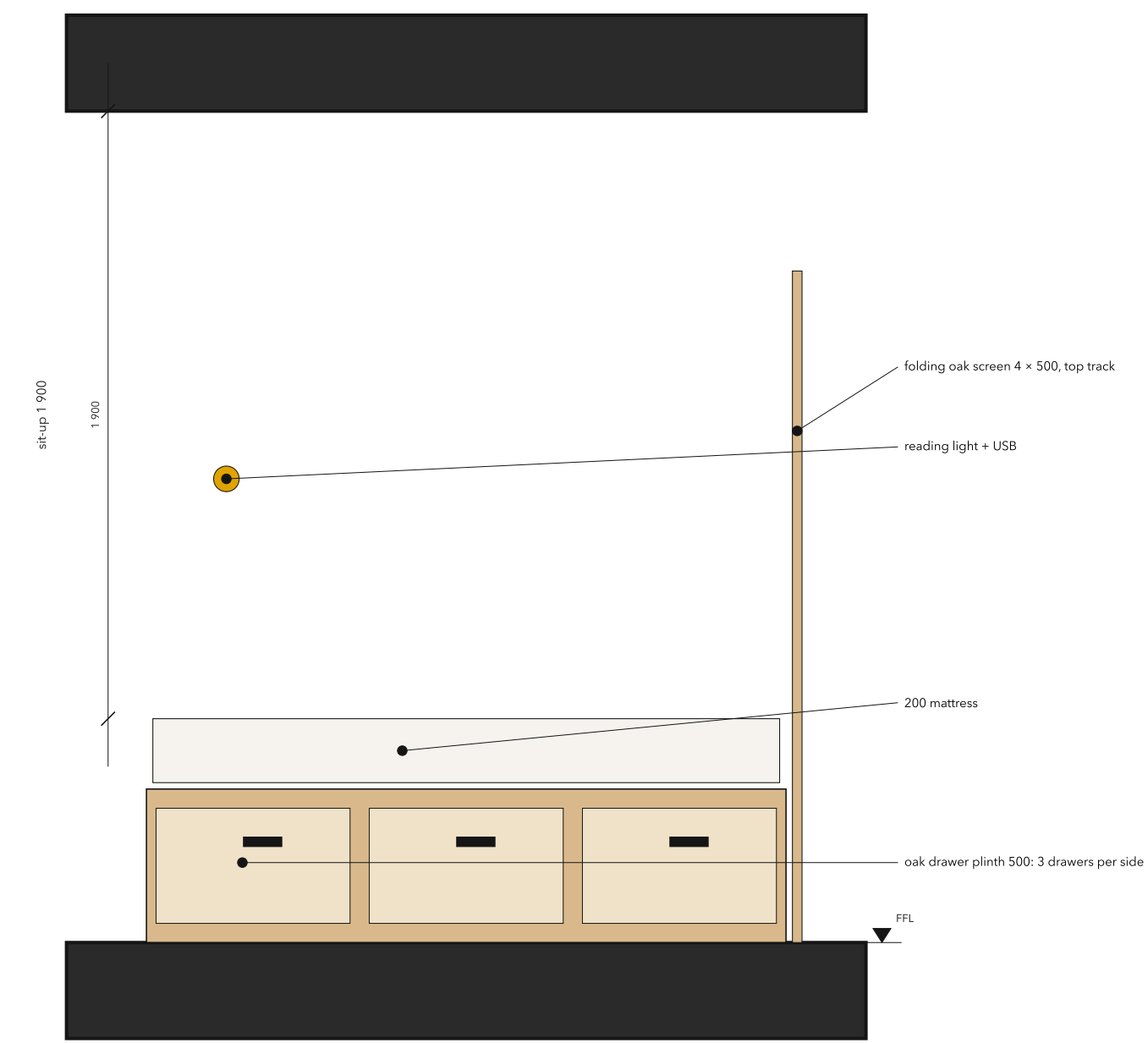
- 1 site** set screw piles to ±5 mm, services stubs to the module positions
- 2 lift** 1 lift(s) with a 4-point spreader from the track; bolt skids, connect services in the crawl space
- 3 kit** decks, posts and roof run-on/slate roofs from a pre-cut kit; flues and stove after the roof is tight
- 4 check** air test (n50 ≤ 1.0), flue inspection, smoke alarms, handover



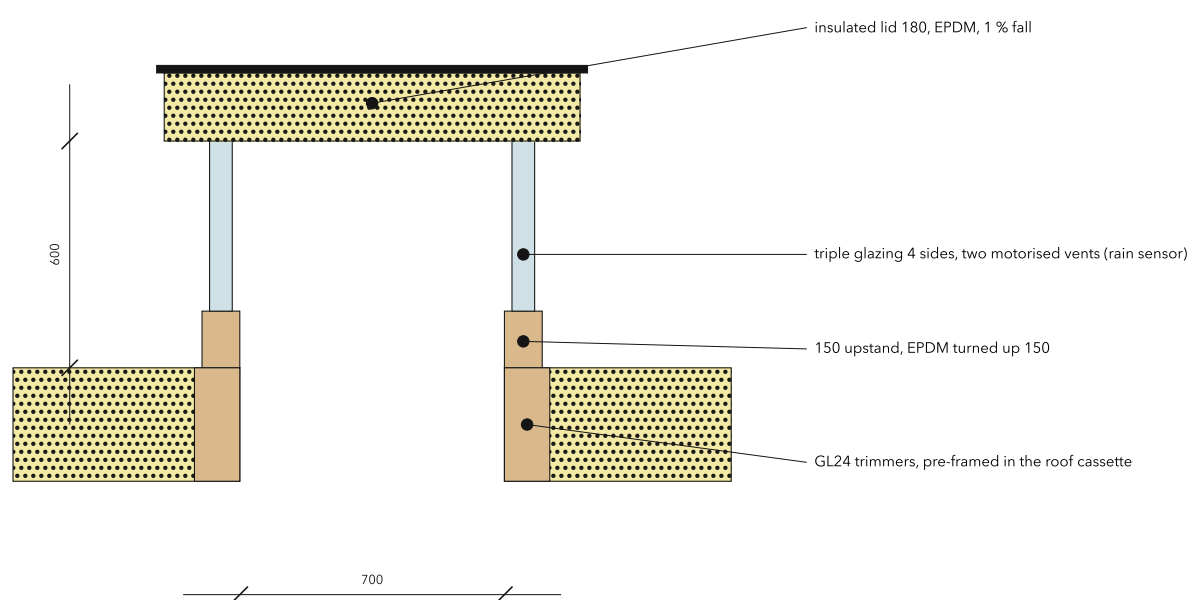
11 WALL FOOT, FLOOR, PILE
1:10



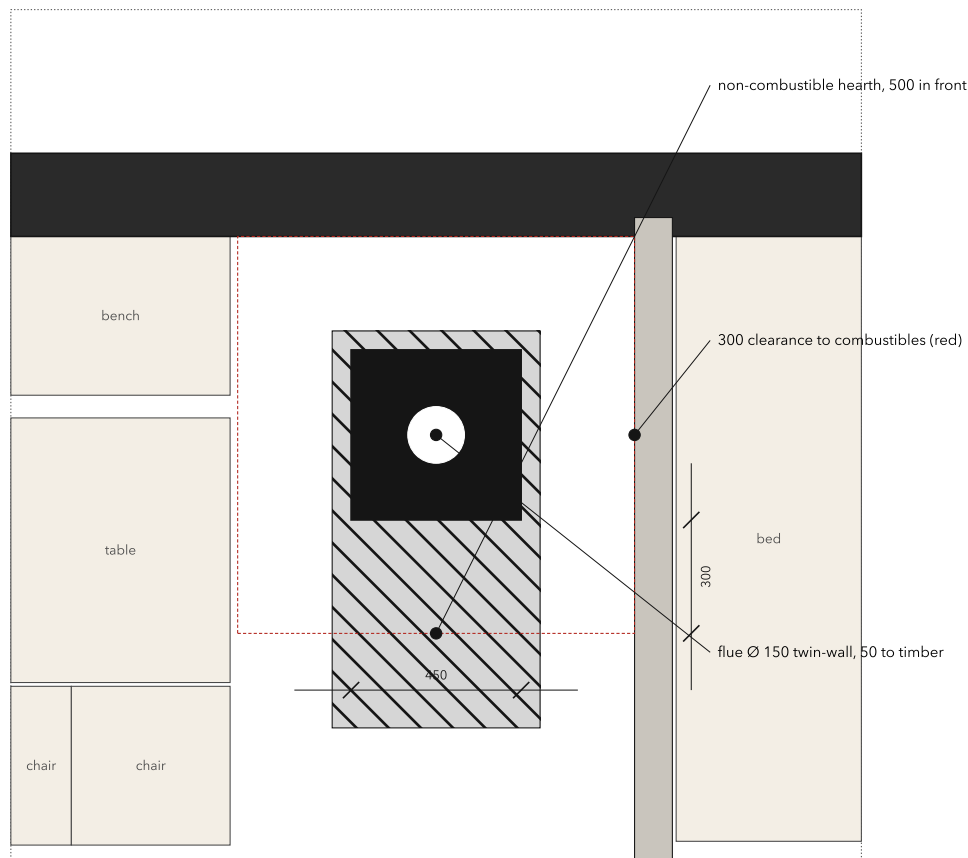
12 PARAPET + FLAT ROOF EDGE
1:10



13 BOX BED, CROSS-SECTION
1:20



14 ROOF LANTERN, SECTION
1:20



24 STOVE CLEARANCES, PLAN
1:20

HAVAAN

Trekkeershutten - static cabins on screw piles - design series 2026

Drawing	Installation, junctions, signature details, fire, mass
Scale	as noted at A1, dimensions in mm
Date	2026-10-25
Status	Concept design, rev. 3 - not for construction

Sheet

11/32

CAD: build123d + maplet/dt, one spec (cad/hut)

HT-03

Bedstee