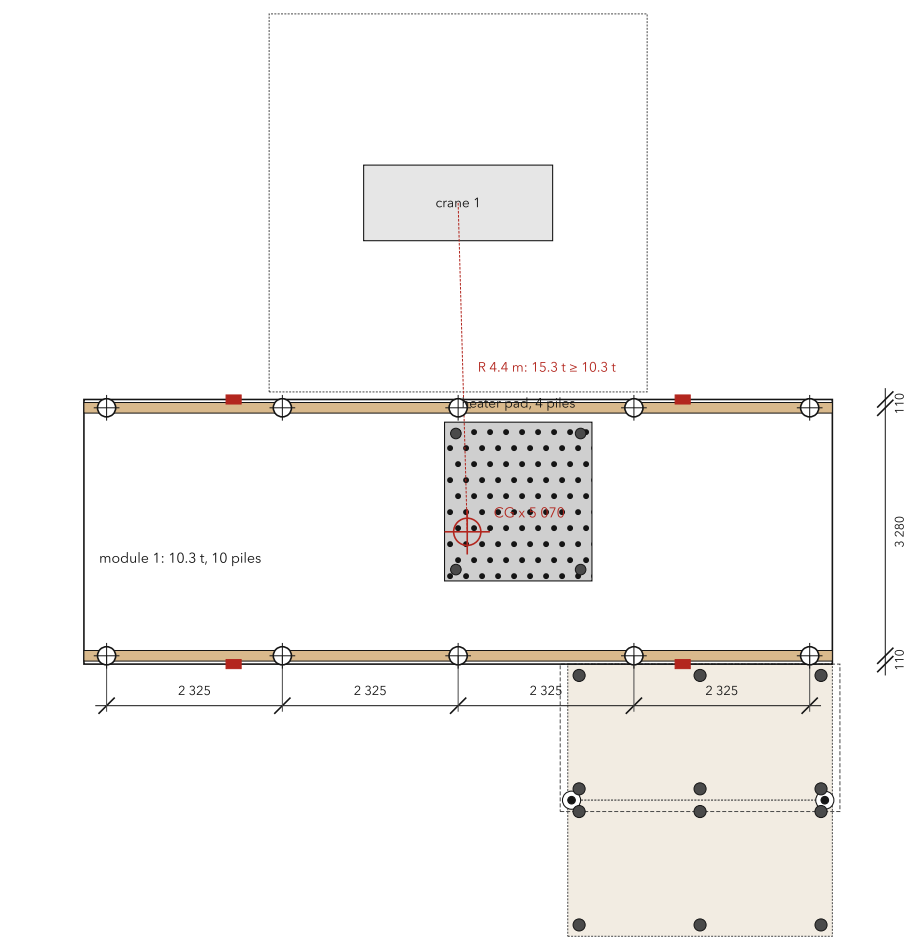
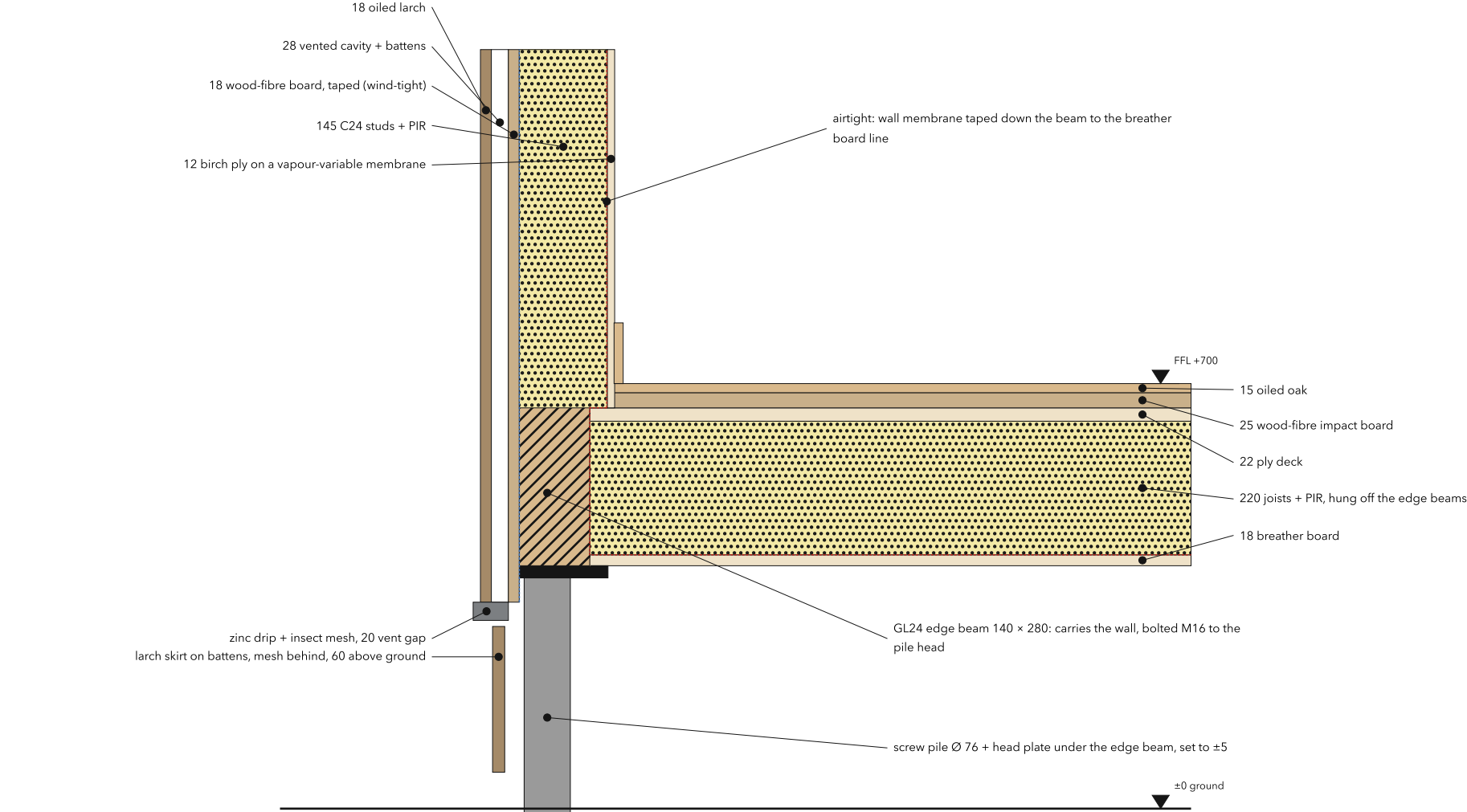
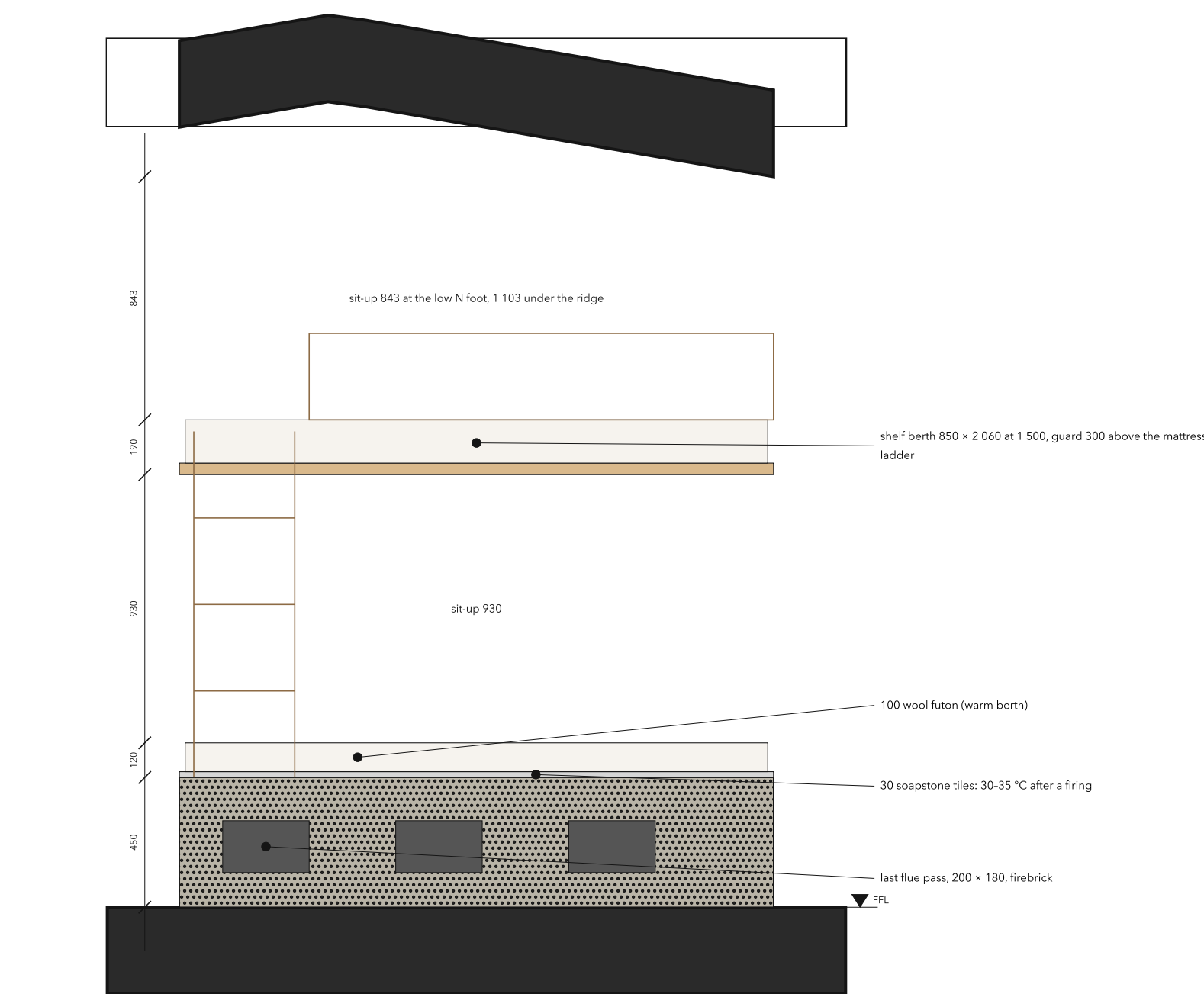




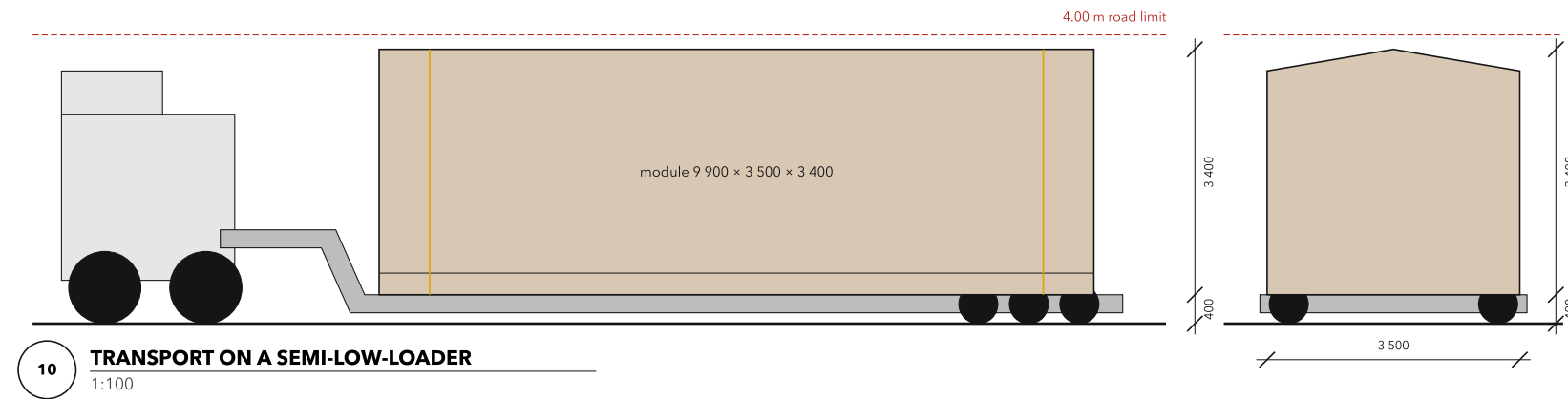
9 PILES, LIFTING POINTS, CRANE SET-UPS
1:100



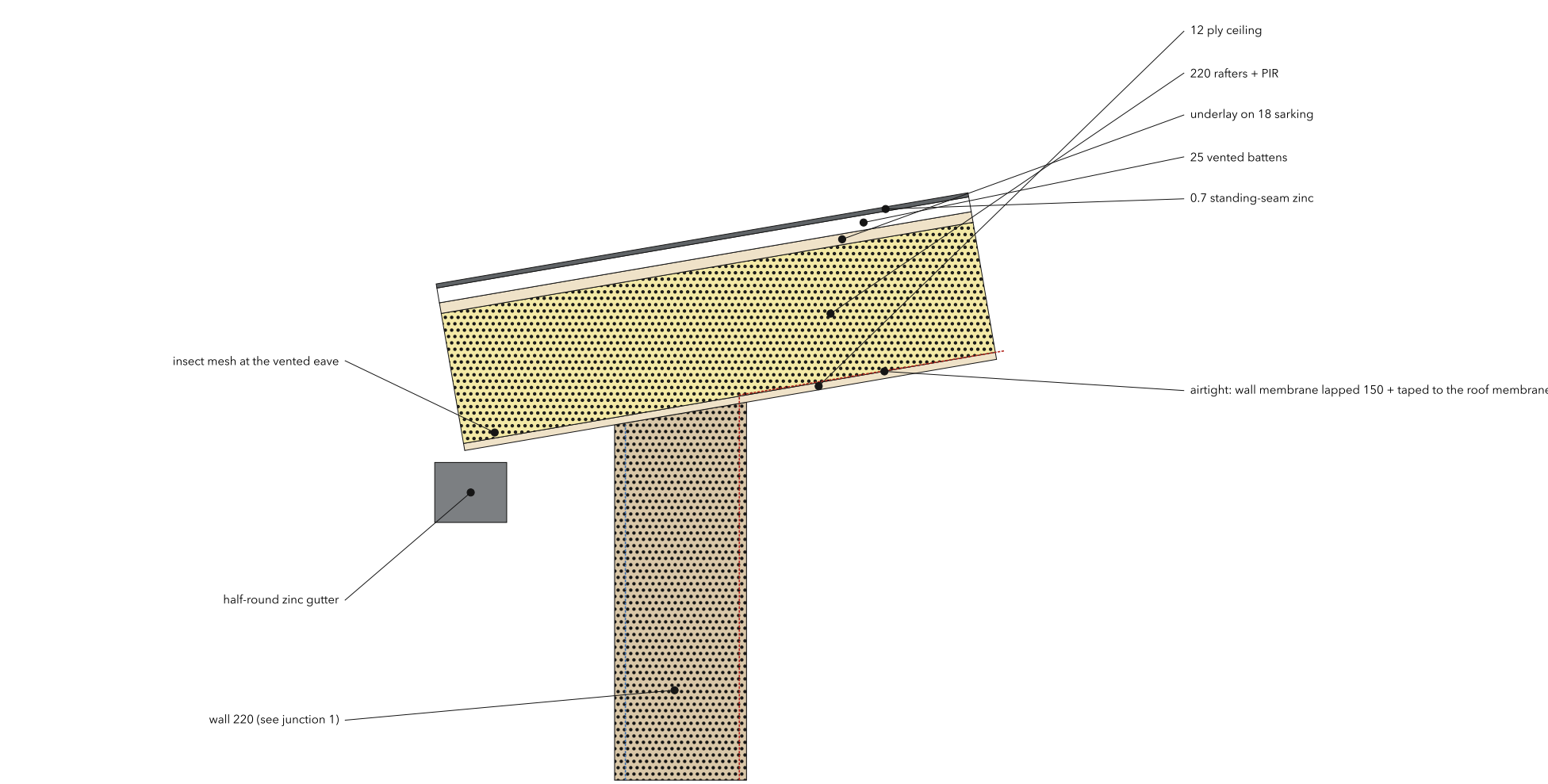
11 WALL FOOT, FLOOR, PILE
1:10



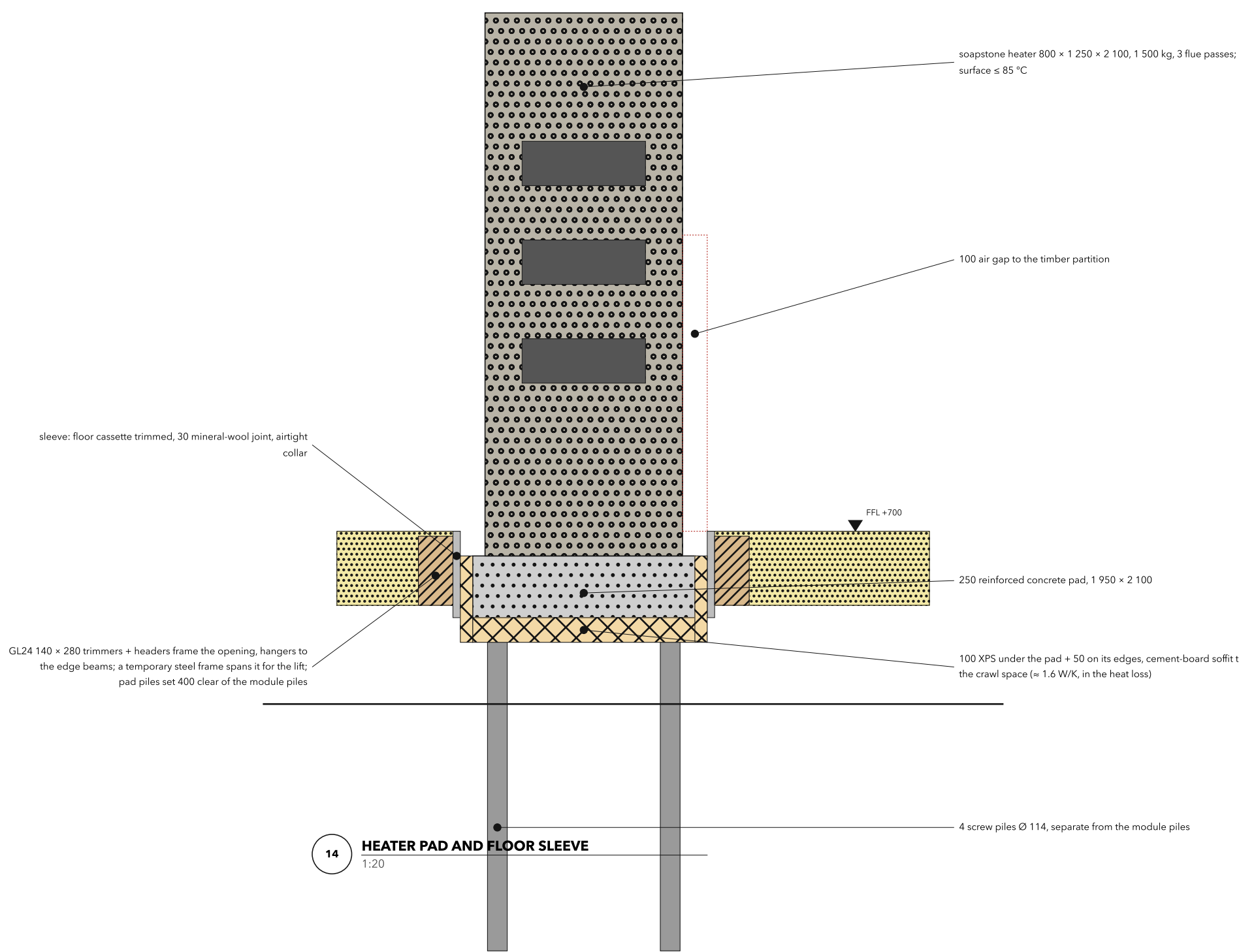
13 KACHELBANK WARM BENCH + SHELF BERTH
1:20



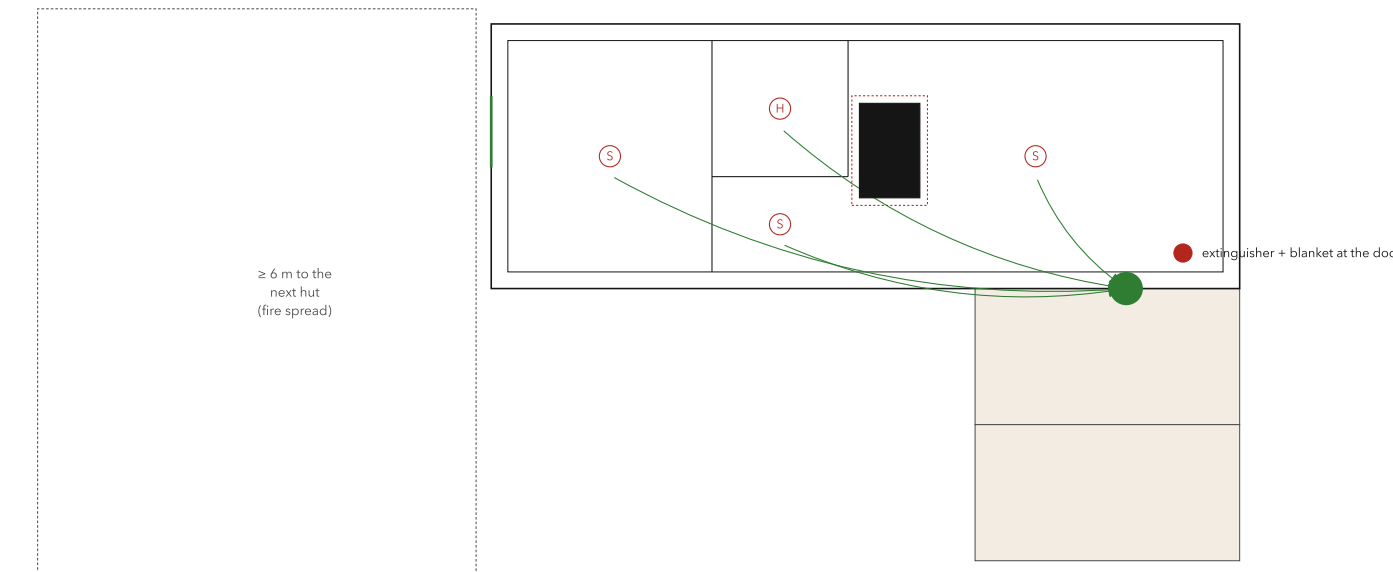
10 TRANSPORT ON A SEMI-LOW-LOADER
1:100



12 EAVE, PITCHED ROOF
1:10



14 HEATER PAD AND FLOOR SLEEVE
1:20



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	2 010 kg
Walls	3 650 kg
Roof	1 853 kg
Glazing + doors	259 kg
Kitchen	281 kg
Bathrooms	125 kg
Beds + seating	300 kg
Joinery	374 kg
Services	382 kg
Linen + kit	62 kg
Lifting	60 kg
Contingency 10%	933 kg
Total lift, module 1	10 264 kg

BUILDING PHYSICS (CONCEPT)

Areas	walls 76 m ² , roof 35 m ² , floor 35 m ² , glazing 8.1 m ² (28 % of the floor)
Heat loss	H _L 43.5 W/K (incl. AU 0.05 for bridges, heater pad 1.6) + H _L V 3.1 W/K = 46.6 W/K + 30 K (20 / -10 °C) = 1.40 kW = 1948 kWh/yr space heat, = 67 kWh/m ² /yr; heat pump SCOP 3.5 → = 557 kWh electricity
Demand	air-to-air heat pump 2.5 kW covers the peak; masonry heater sized by the load: an average winter day needs = 17 kWh, i.e. one 4-5 kg evening firing (= 15-20 kWh released over 18-24 h); the full 12 kg load (= 45 kWh) only in cold spells below -5 °C; the heat pump tops up and covers the shoulder seasons, 1.6 kWp PV = 1.440 kWh/yr
Supply	glazing g 0.5, roof overhangs/porches on the sunny glass, MVR summer bypass + night purge via tilt windows
Overheating	

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 tracks; bolt skids, connect services in the crawl space
3 kit	decks, posts and roof run-ons/site 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

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

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CAD: build1234 + map/drafts, one spec (cad/hut)

HT-08

Haard