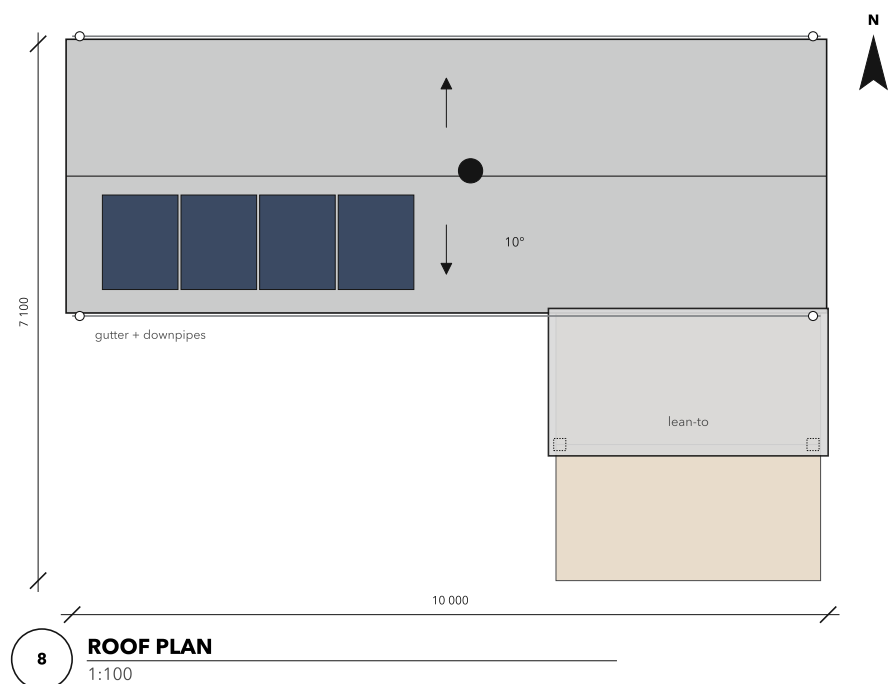
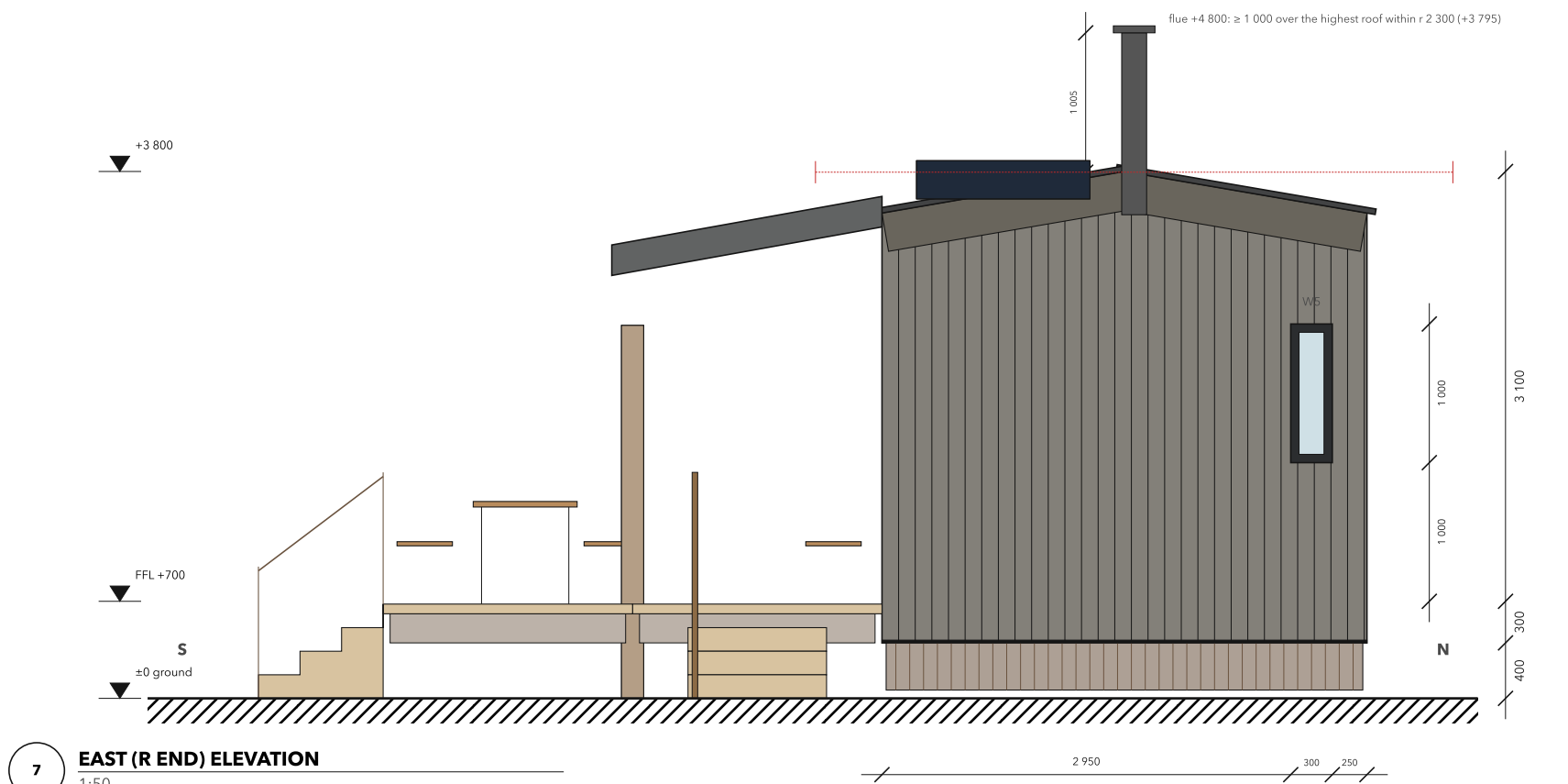
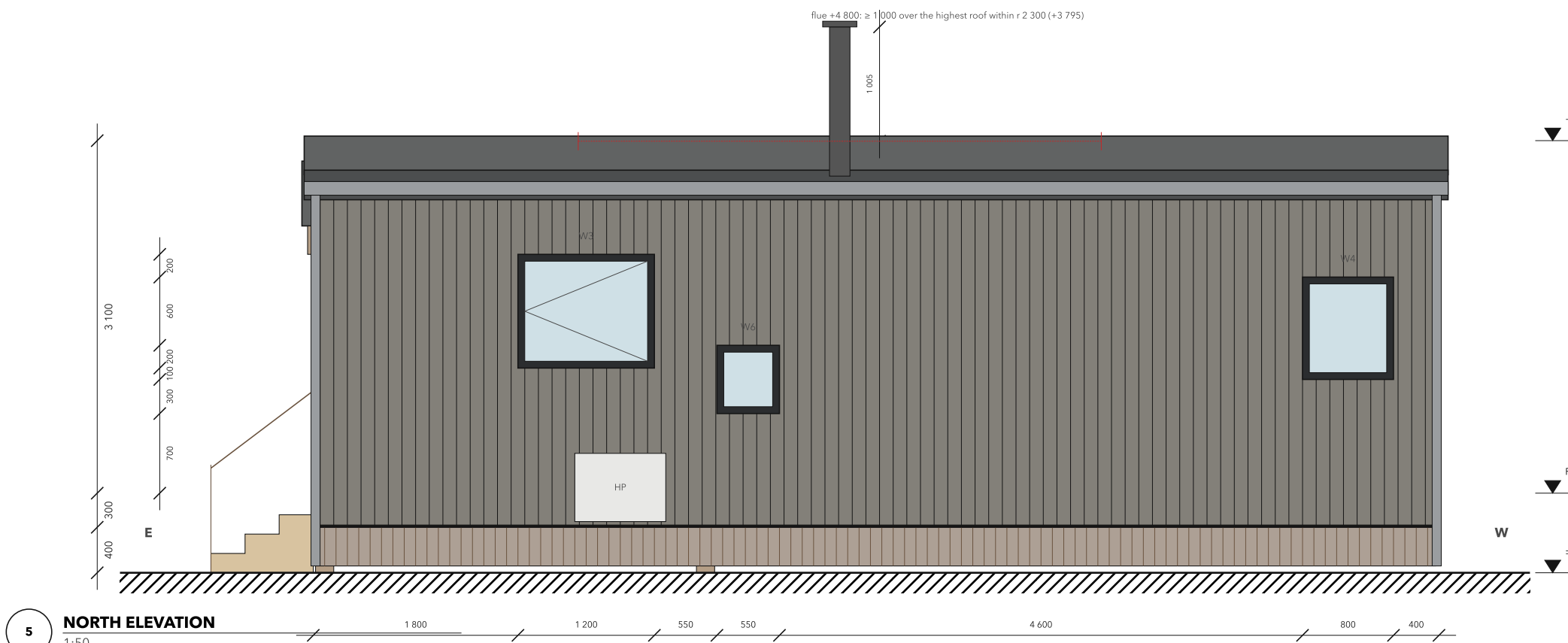
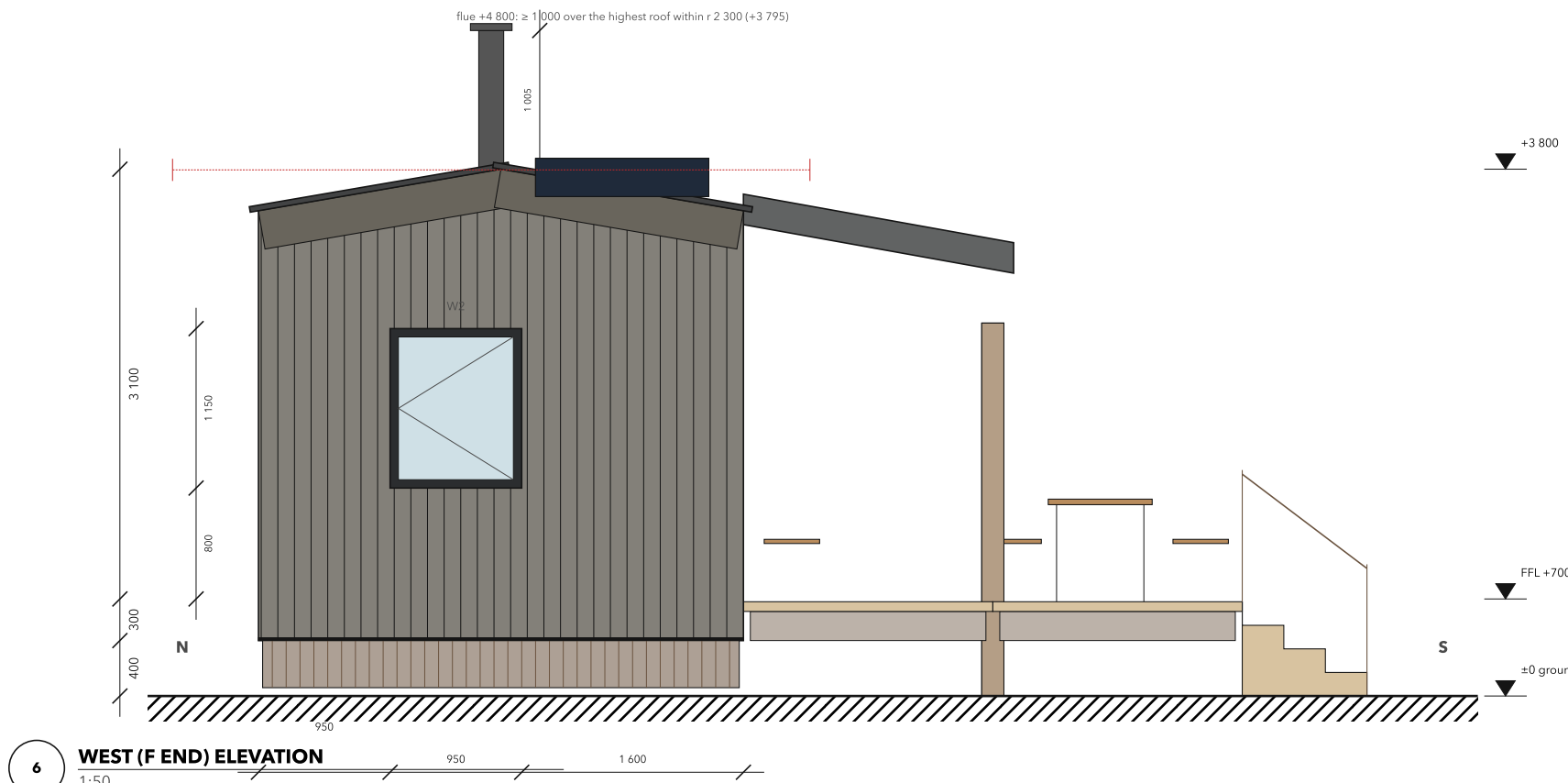
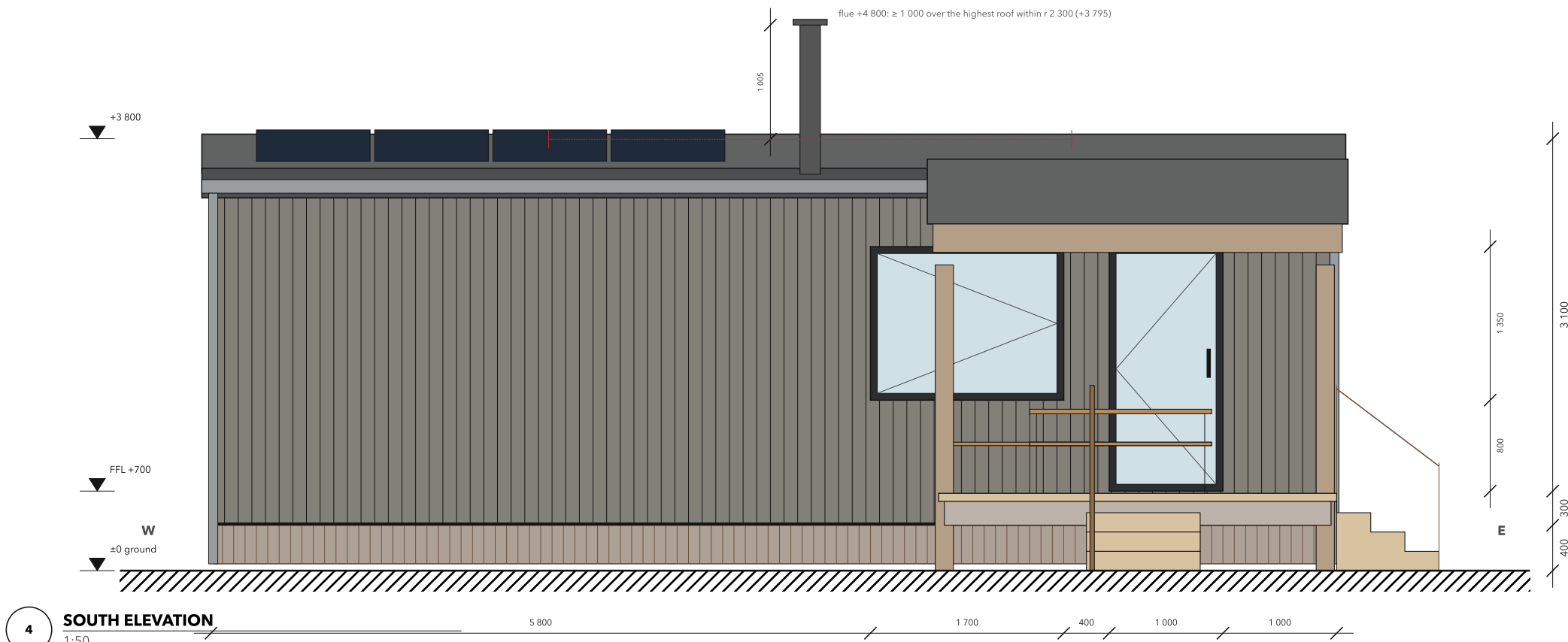




#### OPENING SCHEDULE

| ID | Type             | Wall  | W x H         | Sill  | Note      | Sun        |
|----|------------------|-------|---------------|-------|-----------|------------|
| D1 | glazed door      | S     | 1 000 x 2 150 | 0     | clear 880 | porch roof |
| W1 | tilt-turn window | S     | 1 700 x 1 350 | 800   | escape    | porch roof |
| W2 | tilt-turn window | F end | 950 x 1 150   | 800   | escape    | ext. blind |
| W3 | tilt-turn window | N     | 1 200 x 1 000 | 1 100 | -         | -          |
| W4 | fixed pane       | N     | 800 x 900     | 1 000 | -         | -          |
| W5 | fixed pane       | R end | 300 x 1 000   | 1 000 | -         | ext. blind |
| W6 | fixed pane       | N     | 550 x 600     | 700   | -         | -          |

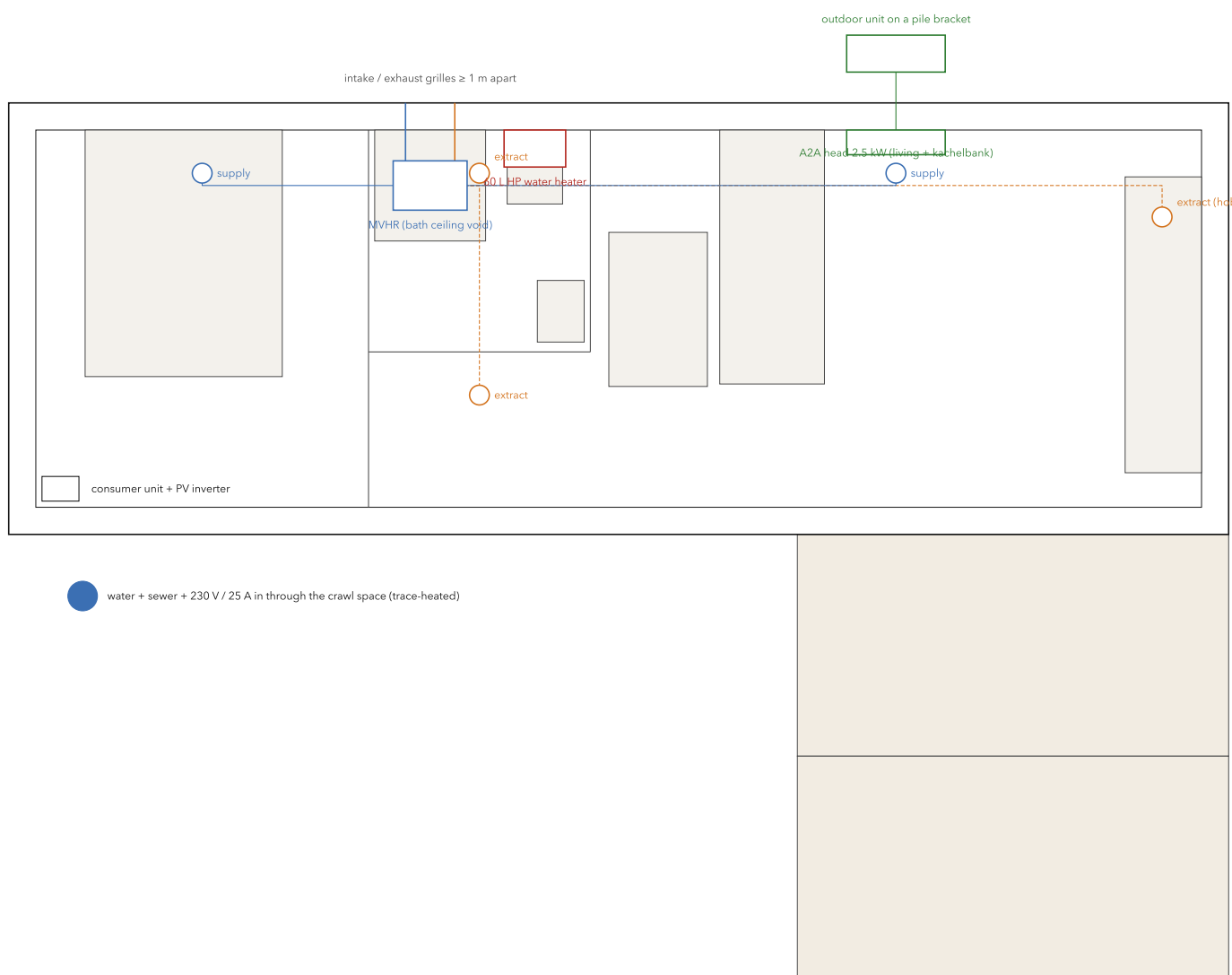
#### MATERIALS

|                                     |                    |
|-------------------------------------|--------------------|
| Dark amber larch                    | Standing-seam zinc |
| Soapstone heater + bench tiles      | Oak joinery        |
| Rust wool curtain to the kachelbank |                    |

#### CONSTRUCTION, SERVICES, FIRE

- Wall 220** 18 oiled larch on 28 vented battens / 18 wood-fibre sheathing, taped (wind-tight) / 145 C24 studs at 600 with PIR (λ 0.022) between / vapour-variable membrane, taped (airtight) / 12 birch ply, R<sub>c</sub> = 4.8 m<sup>2</sup>K/W (15 % timber)
- Floor 300** 15 oiled oak / 25 wood-fibre impact board / 22 ply / 220 C24 joists with PIR between, hung off two GL24 140 x 280 edge beams under the long walls, which bear on the screw-pile heads / 18 breather board, R<sub>c</sub> = 5.0; crawl space 400, closed by a larch skirt with insect mesh and vents
- Roof 300** 0.7 standing-seam zinc on 25 vented battens and underlay / 18 sarking / 220 rafters with PIR / vapour-variable membrane lapped onto the wall membrane / 12 ply, R<sub>c</sub> = 6.5; gable 10°
- Heater** soapstone masonry heater 800 x 1 250 x 2 100, 1 500 kg, 3-pass flue; the last pass runs 2 000 under the tiled bench, which stands on the same pad (sliding joint at the floor); set on its own concrete pad on 4 screw piles through a sleeve in the floor cassette, built after the lift by the stove maker; outside air duct under the floor

- Kachelbank** tiled bench berth 850 x 2 060 at 450 (surface 30-35 °C after a firing), shelf berth above at 1 500 with a 300-high guard rail on the open side and an oak ladder; 930 sit-up below the shelf; above it = 1 020 at the S head, 1 100 under the ridge and 850 at the N foot (the gable rises to the middle); wool curtain on a ceiling track
- Services** all electric, 230 V / 25 A pitch hook-up; one air-to-air heat pump (2.5 kW, seasonal SCOP 3.5; outdoor unit on a pile-mounted bracket behind a larch louvre, on the outer wall behind the indoor head - see the services diagram), MVHR (90 % recovery, 150 m<sup>3</sup>/h) in the bath ceiling, 60 L heat-pump water heater wall-hung over the WC frame in the bath (air from the bath extract), recirculating cooler hood with MVHR extract 1.5 m from the hob, 1.6 kWp PV + 3 kW inverter, water and sewage to the campsite mains in trace-heated pipes
- Fire** soapstone masonry heater 1 500 kg (4.5 kg evening firing = 15-20 kWh on an average winter day, 12 kg max = 45 kWh), outside air duct under the floor; twin-wall insulated flue Ø 150 terminating 1 000 above any roof surface within 2.3 m (and) ≥ 1 000 above the own ridge; stayed above 1.5 m free length); dimensioned on the elevations; masonry heater faces ≤ 85 °C, to 100 air gap to the timber partition (GdS lined) and an oak-slat guard 100 off the hot faces beside the berth per the heater maker's data (the 300 / 500 stove rule applies to steel stoves), non-combustible hearth 500 in front of the firing door; smoke + CO alarm in every room except the bath (heat detector there), extinguisher and fire blanket at the door
- Installation** craned in one lift per module with a 4-point spreader onto pre-set screw piles (Ø 76, 1.5-2.5 m, set to ±5 mm); edge beams bolted to the pile heads; porch, roof extensions and posts follow as a pre-cut kit in one day



#### SERVICES: VENTILATION, HEAT, WATER, POWER

#### HAVAAN

Trekkeershutten - static cabins on screw piles - design series 2026

Drawing Elevations, roof plan, openings, construction  
Scale 1:50, roof plan 1:100 at A1, dimensions in mm  
Date 2026-10-25  
Status Concept design, rev. 3 - not for construction

Sheet

30/32

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

#### HT-08

Haard

